



Lot 3 DP 706194 and Lot 12 DP 866036
Moss Vale NSW:
Aboriginal Cultural Heritage Assessment

FINAL REPORT

Prepared for Aoyuan International

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Glossary

ACHA	Aboriginal Cultural Heritage Assessment
AHIMS	Aboriginal Heritage Information Management System
Consultation requirements	<i>Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010</i> (DECCW 2010a)
DA	Determining Authority
DECCW	Department of Environment, Climate Change and Water (now DPIE)
DP	Deposited Plan
DPIE	Department of Planning, Industry and Environment
EP&A Act	<i>Environmental Planning and Assessment Act 1979</i>
ICOMOS	International Council on Monuments and Sites
ILALC	Illawarra Local Aboriginal Land Council
LEP	Local Environmental Plan
LGA	Local Government Area
NNTT	National Native Title Tribunal
NPW Act	<i>National Parks and Wildlife Act 1974</i>
NPWS	National Parks and Wildlife Service
NSW	New South Wales
NTSCORP	Native Title Services Corporation
OEH	NSW Office of Environment and Heritage (now DPIE)
PAD	Potential Archaeological Deposit
Project area	Lot 3 DP 706194 and Lot 12 DP 866036
RAPs	Registered Aboriginal Parties
the Code	<i>Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW</i> (DECCW 2010)

Summary

Biosis Pty Ltd was commissioned by Aoyuan International to undertake an Aboriginal Cultural Heritage Assessment (ACHA) for the proposed residential development at Lot 3 DP 706194 and Lot 12 DP 866036 Moss Vale, New South Wales (NSW) (the study area). The study area is located approximately 1.8 kilometres south of Moss Vale and approximately 50 kilometres south west of the Wollongong Central Business District (CBD). It encompasses 128 hectares of private land and is currently zoned RU2 rural landscape.

There are two Aboriginal cultural heritage sites registered with the Aboriginal Heritage Information Management System (AHIMS) register within the study area and a further 29 in the vicinity of the study area.

Wingecarribee Shire Council is the determining authority (DA) and will assess the ACHA to help them determine if the proposed development is likely to have a significant effect on the environment, including Aboriginal cultural heritage.

Consultation

The Aboriginal community was consulted regarding the heritage management of the project throughout its lifespan. Consultation has been undertaken as per the process outlined in the DECCW document, *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010a) (consultation requirements). The appropriate government bodies were notified and advertisements placed in the Southern Highlands News newspaper (5 September 2019), which resulted in 11 Aboriginal organisations registering their interest, as shown in Table 1.

Table 1 List of registered Aboriginal parties and group contact

Organisation	Contact person
Guunamaa Dreaming Sites and Surveying	Richard Campbell
Individual	James Davis
Tungai Tonghi	Troy Tungai
Cubbitch Barta	Glenda Chalker
Individual	Leanne Tungai
Illawarra Local Aboriginal Land Council	Paul Knight
Woronora Plateau Gundungara Elders Council	Kayla Williamson
Duncan Falk Consultancy	Duncan Falk
Yurrandaali	Bo Field
Yulay Cultural Services	Arika Jalomaki
Barraby Cultural Services	Lee Field

The Office of the Registrar, *Aboriginal Land Rights Act 1983* were contacted but did not respond to request for stakeholder details. A search conducted by the National Native Title Tribunal (NNTT) for the Wingecarribee shire listed one Registered Native Title Claim by the South Coast People, no Unregistered Claimant Applications, and one Registered Indigenous Land Use Agreement for the Gundungurra Area agreement; The

study area is located on freehold land and the above Native Title Claims and Land Use agreements are therefore extinguished in the study area.

Upon registration, the Aboriginal parties were invited to provide their knowledge on the study area and on the proposal provided in the methodology pack. The responses identify the study area as an area of high significance. Responses from the Registered Aboriginal Parties (RAPs) are included in Appendix 3.

Duncan Falk of Duncan Falk Consulting participated in the field survey and provided comment on the study area with regard to the proposal. He noted that Park Leigh Hill, located immediately south east of the study area held cultural significance, and sites in the area could be associated with that.

The outcome of the consultation process was that the RAPs considered the study area to have a high level of cultural significance, although that significance was not clearly defined. The results of the consultation process are included in this document.

The recommendations that resulted from the consultation process are provided below.

Results

The ACHA assessment undertook background research for the proposed study area. Key considerations arising from the background research include:

- Artefact scatters and isolated finds are most likely to occur as background scatter on all landforms; however, concentration of artefacts are most likely to occur on elevated landforms or raised areas of lower lying landforms adjacent to ephemeral and perennial streams, within 200 metres.
- Modified trees will occur in areas that have not been cleared and are of sufficient age to bear marks of traditional Aboriginal scarring or carving.

Test excavations undertaken in the study area have revealed a varying density of artefacts at AHIMS 52-4-0194/Chelsea Gardens Locale 2, AHIMS 52-4-0193/Chelsea Gardens Locale 1 and AHIMS 52-4-0689/Chelsea Gardens Locale 3. It was found that AHIMS 52-4-0194/Chelsea Gardens Locale 2 contained the highest density of artefacts including tools and cores, suggesting it was the favoured loci for occupation in the study area. AHIMS 52-4-0193/Chelsea Gardens Locale 1 contained a lower density of artefacts and artefact diversity suggesting this site was used as a secondary camp site location, possibly during times of flooding, as the hill crest landform provided greater elevation than the hillock at AHIMS 52-4-0194/Chelsea Gardens Locale 2. AHIMS 52-4-0689/Chelsea Gardens Locale 3 contained the lowest density and most limited diversity of artefacts in the study area. The deposit at this location consisted of background scatter and it is likely these artefacts were discarded during travel through the area rather than during periods of short or long term occupation.

Table 2 Site details

Site name	Site type	Significance	Type of harm before mitigated	Consequence of unmitigated harm	Consequence of mitigated harm	Site specific recommendations
Chelsea Gardens Locale 1	Artefact scatter	Low	Direct	Total loss of value	Total loss of value	AHIP to harm.

Site name	Site type	Significance	Type of harm before mitigated	Consequence of unmitigated harm	Consequence of mitigated harm	Site specific recommendations
Chelsea Gardens Locale 2	Artefact scatter	Moderate	Direct	Total loss of value	Partial loss of value	AHIP to harm low density portion of site. Conservation of moderate density portion of site
Chelsea Gardens Locale 3	Artefact scatter	Low	Direct	Total loss of value	Total loss of value	AHIP to harm.

Management recommendations

Prior to any development impacts occurring within the study area, the following is recommended:

Recommendation 1: Conservation of AHIMS 52-4-0194/Chelsea Gardens Locale 2

AHIMS 52-4-0194/Chelsea Gardens Locale 2 has been identified as having moderate archaeological significance. The archaeological test excavations have identified a medium density partially intact subsurface archaeological deposit within a hillock landform at the confluence of two creeklines. Therefore, it is recommended that this area of medium density deposit be conserved as a green space and no further ground disturbances occur, including landscaping. It is recommended that no go fencing is placed around the portion of AHIMS 52-4-0194/Chelsea Gardens Locale 2 that will not be impacted and construction personnel undergo a site induction to avoid accidental impacts. If impacts to the areas of highest density currently located outside of proposed works are to occur, then a program of salvage excavations is recommended.

Recommendation 2: Application for an AHIP to harm AHIMS 52-4-0193/Chelsea Gardens Locale 1, AHIMS 52-4-0194/Chelsea Gardens Locale 2 and AHIMS 52-4-0689/Chelsea Gardens Locale 3

The proposed works will result in direct impacts, with a total loss of value to AHIMS 52-4-0193/Chelsea Gardens Locale 1 and AHIMS 52-4-0689/Chelsea Garden Locale 3, and partial loss of value to AHIMS 52-4-0194/Chelsea Gardens Locale 2. It is recommended that Aoyuan International apply to the DPIE for an area wide Aboriginal Heritage Impact Permit (AHIP) covering the entirety of the study area for a term of 20 years. The AHIP should allow for the following:

- Total Impact to the recorded Aboriginal cultural heritage sites AHIMS 52-4-0193/Chelsea Gardens Locale 1 and AHIMS 52-4-0689/Chelsea Garden Locale 3.
- Partial impacts to AHIMS 52-4-0194/Chelsea Gardens Locale 2, avoiding the area of moderate density within this site.
- Impact within the limits of the area wide AHIP for any further Aboriginal objects encountered during construction, unless human remains are identified.

A site impact recording form for registered Aboriginal site AHIMS 52-4-0193/Chelsea Gardens Locale 1, AHIMS 52-4-0194/Chelsea Gardens Locale 2, and AHIMS 52-4-0689/Chelsea Garden Locale 3 should also be completed and submitted to the DPIE following impacts to the site.

For information about AHIPs and their preparation, see below.

Advice preparing AHIPs

An AHIP is required for any activities likely to have an impact on Aboriginal objects or Places or cause land to be disturbed for the purposes of discovering an Aboriginal object. The DPIE issues AHIPs under Part 6 of the NPW Act.

AHIPs should be prepared by a qualified archaeologist and lodged with the DPIE. Once the application is lodged processing time can take between 8-12 weeks. It should be noted that there will be an application fee levied by the DPIE for the processing of AHIPs, which is dependent on the estimated total cost of the development project.

Where there are multiple sites within one study area an application for an AHIP to cover the entire study area is recommended.

Recommendation 3: Establish care and control of Aboriginal objects

All artefacts identified during the test excavations should be reburied in an area adjacent to the study area which will not be impacted by future developments, or given to the ILALC for safe keeping.

Recommendation 4: Discovery of Aboriginal Ancestral Remains

Aboriginal ancestral remains may be found in a variety of landscapes in NSW, including middens and sandy or soft sedimentary soils. If any suspected human remains are discovered during any activity you must:

1. Immediately cease all work at that location and not further move or disturb the remains.
2. Notify the NSW Police and DPIE's Environmental Line on 131 555 as soon as practicable and provide details of the remains and their location.
3. Not recommence work at that location unless authorised in writing by DPIE.

1 Introduction

1.1 Project background

Biosis Pty Ltd has been commissioned by Aoyuan International to undertake an ACHA for the proposed residential development at Lot 3 DP 706194 and Lot 12 DP 866036 Moss Vale, NSW (Figure 1). This report details the investigation, consultation and assessment of Aboriginal cultural heritage undertaken for the study area.

There are two Aboriginal cultural heritage sites registered with the AHIMS register within the study area and 29 in the vicinity of the study area. Wingecarribee Shire Council is the determining authority and will assess the ACHA to help them determine if the proposed development is likely to have a significant effect on the environment, including Aboriginal cultural heritage.

1.2 Study area

The study area is located approximately 1.8 kilometres south of Moss Vale and approximately 50 kilometres south west of the Wollongong CBD (Figure 2). It encompasses 128 hectares of private land and is currently zoned RU2 rural landscape.

The study area is within the:

- Wingecarribee LGA.
- Parish of Bong Bong.
- County of Camden.

The study area is bounded by Yarrowa Road to the west and south, parklands and residential subdivisions to the north and largely undeveloped pastoral and farming land to the east.

1.3 Planning approvals

The proposed development will be assessed against Part 4 of the *Environmental Planning and Assessment Act 1979* (EP&A Act). Other relevant legislation and planning instruments that will inform this assessment include:

- NPW Act.
- *NSW National Parks and Wildlife Amendment Act 2010*.
- Wingecarribee Local Environmental Plan 2010 (LEP).
- Wingecarribee Development Control Plan 2010.

1.4 Proposed development

The proposed works within the study area will include the following (see Figure 2):

- The subdivision and development of 1,121 lots totalling 125.5 ha of land surface.
- Construction of roads and services.
- Construction of 15 lakes and ponds.

- Construction of recreational facilities including sporting fields.

1.5 Restricted and confidential information

Appendix 1 in the Archaeological Report contains AHIMS information which is confidential and not to be made public. This is clearly marked on the title page for the Attachment.

1.6 Aboriginal cultural heritage

1.6.1 General description

According to Allen and O'Connell (2003), Aboriginal people have inhabited the Australian continent for the last 50,000 years. New evidence out of the Northern Territory has pushed this date back to around 60,000 years with the Malakanunja II rock shelter dated at 61,000 +9,000/-13,000 BP (Clarkson et al. 2015). In NSW, according to Bowler et al. (2003), Aboriginal people have occupied the land for over 42,000 years.

Without being part of the Aboriginal culture and the productions of this culture, it is not possible for non-Aboriginal people to fully understand the meaning of site, objects and places to Aboriginal people – only to move closer towards understanding this meaning with the help of the Aboriginal community. Similarly, definitions of Aboriginal culture and cultural heritage without this involvement constitute outsider interpretations.

With this preface Aboriginal cultural heritage broadly refers to things that relate to Aboriginal culture and hold cultural meaning and significance to Aboriginal people (DECCW 2010b, p.3). There is an understanding in Aboriginal culture that everything is interconnected. In essence Aboriginal cultural heritage can be viewed as potentially encompassing any part of the physical and/or mental landscape, that is, 'Country' (DECCW 2010b, p.iii).

Aboriginal people's interpretation of cultural value is based on their 'traditions, observance, lore, customs, beliefs and history' (DECCW 2010b, p.3). The things associated with Aboriginal cultural heritage are continually and actively being defined by Aboriginal people (DECCW 2010b, p.3). These things can be associated with traditional, historical or contemporary Aboriginal culture (DECCW 2010b, p.3).

1.6.2 Tangible Aboriginal cultural heritage

Three categories of tangible Aboriginal cultural heritage may be defined:

- Things that have been observably modified by Aboriginal people.
- Things that may have been modified by Aboriginal people but no discernible traces of that activity remain.
- Things never physically modified by Aboriginal people (but associated with Dreamtime Ancestors who shaped those things).

1.6.3 Intangible Aboriginal cultural heritage

Examples of intangible Aboriginal cultural heritage would include memories of stories and 'ways of doing', which would include language and ceremonies (DECCW 2010a, pp. 3).

1.6.4 Statutory

Currently Aboriginal cultural heritage, as statutorily defined by the NPW Act, consists of objects and places which are protected under Part 6 of the Act.

Aboriginal objects are defined as:

any deposit, object or material evidence...relating to the Aboriginal habitation of the area that comprises NSW, being habitation before or concurrent with (or both) the occupation of that area by persons of non-Aboriginal extraction, and includes Aboriginal remains

Aboriginal places are defined as a place that is or was of special Aboriginal cultural significance. Places are declared under section 84 of the NPW Act.

1.6.5 Values

Aboriginal cultural heritage is valued by Aboriginal people as it is used to define their identity as both individuals and as part of a group (DECCW 2010a, pp. iii). More specifically it is used:

- To provide a:
 - ‘*Connection and sense of belonging to Country*’ (DECCW 2010a, pp. iii).
 - Link between the present and the past (DECCW 2010a, pp. iii).
- As a learning tool to teach Aboriginal culture to younger Aboriginal generations and the general public (DECCW 2010a, pp. 3).
- As further evidence of Aboriginal occupation prior to European settlement for people who do not understand the magnitude to which Aboriginal people occupied the continent (DECCW 2010a, pp. 3).

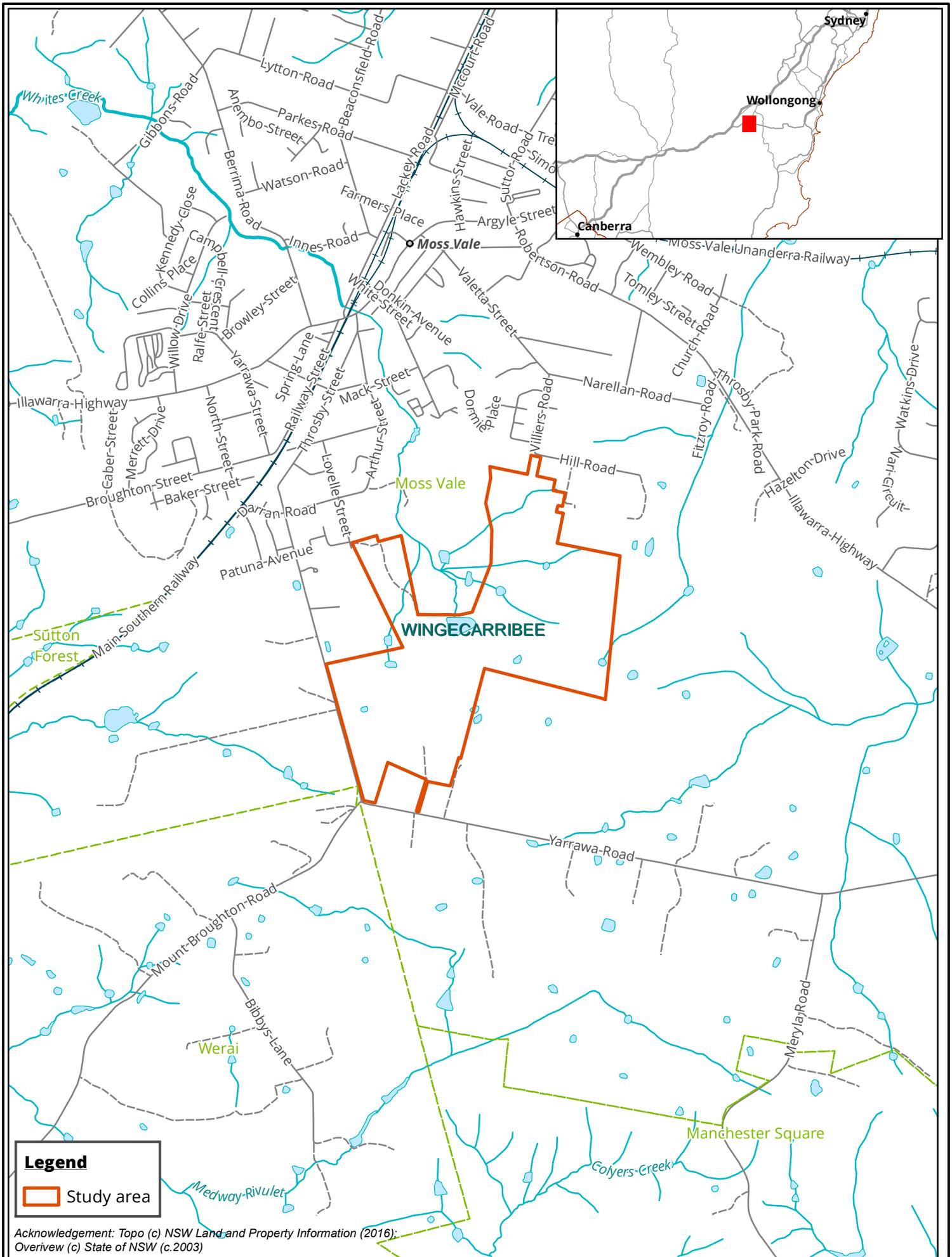
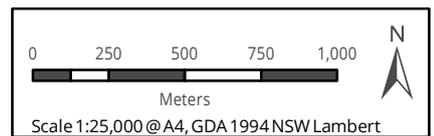
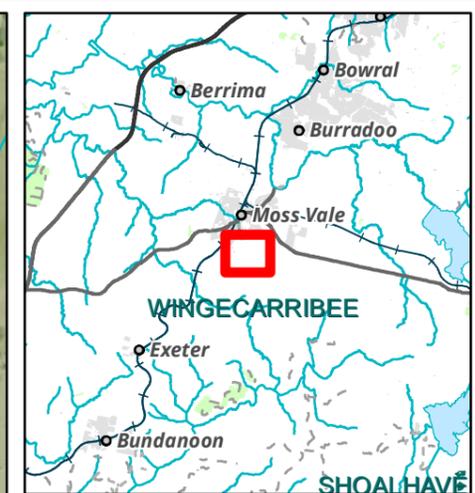


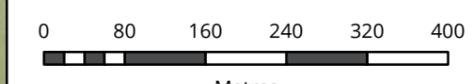
Figure 1 Study area in a regional context





Legend
 Study area

Figure 2 Study area detail



Metres
 Scale: 1:7,000 @ A3
 Coordinate System: GDA 1994 NSW Lambert



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2 Study area context

This section discusses the study area in regards to its landscape, environmental and Aboriginal cultural heritage context. This section should be read in conjunction with the archaeological report attached in Appendix 6. The background research has been undertaken in accordance with the *Code of Practice for the Archaeological Investigation of Aboriginal Objects in NSW* (DECCW 2010b) (the Code).

2.1 Topography and hydrology

The underlying geology that dictates the existing landscape is the Wianamatta Group, which is comprised of the Bringelly Shales consisting of mid grey and dark grey mudstones with interbedded lithic sandstones as well as finer grained siltstones and claystone. The subdued relief of the Moss Vale Tablelands is the result of the long periods during which sediments laid down in the late Palaeozoic and early Mesozoic were slowly weathered, eroded and transported away. This landscape is geologically old. The local relief of the area is less than 40 metres and the slopes range from between 10 and 20% with localised steeper slopes of between 20 and 35%. The crests are broad and convex, and the slopes are moderately inclined with concave drainage lines and minor terracing occurring on steeper slopes (eSPADE 2018). Hydrology consists of one ephemeral first order creek with shallow, poorly defined channels that flows towards Whites Creek in the north.

2.2 Soil landscapes

Soil landscapes have distinct morphological and topological characteristics that result in specific archaeological potential. They are defined by a combination of soils, topography, vegetation and weathering conditions. Soil landscapes are essentially terrain units that provide a useful way to summarise archaeological potential and exposure.

There are two soil landscapes present within the study area. The Moss Vale Highlands soil landscape occurs over the northern and central portions of the study area and consists of rolling hills and rounded peaks with deep channel incisions on horizontal Triassic aged geology alternating between quartz sandstone and shale. There are widespread yellow and grey texture-contrast soils, deep yellow earths on friable sandstone often with concretionary ironstone and accumulations of quartz sand in valleys (Mitchell 2002, p.117).

The second soil landscape in the study area is the Robertson Basalts which is located in the north east and south west corners of the study area. This landscape is characterised by flat top hills above undulating shale hills of the Moss Vale Highland landscape on tertiary basalt flows. Soils in this landscape consist of re and red-brown structured loams and clay loam with uniform or gradational profiles.

2.3 Climate and rainfall

The closest weather station to the study area is located in Bowral, approximately 7.5 kilometres south-west. During summer the mean maximum temperature reaches 25.5° C, with a mean minimum temperature of 13.4 ° C. During winter the mean maximum temperate is 11.6 ° C, and a mean minimum temperature of 2.1° C. Annually the area receives a mean rainfall of 931.7 millimetres (BOM 2018).

2.4 Landscape resources

The Moss Vale Tablelands generally provides a number of resources used by Aboriginal inhabitants. Lithic resources would have been accessible in the outcrops of shale and sandstone of the Wianamatta Group, while the sandstone formations also provided areas where tools might be ground and sharpened and art might be engraved. Alluvial deposits along the banks of the Wingecarribee and Nepean Rivers would also have provided sources of silcrete and quartzite cobbles which would have been used extensively by Aboriginal people.

A number of edible plant species would have been available. The general area includes open forest and open woodland, with riparian vegetation extending along many of the watercourses, such as the Wingecarribee River. Each of these areas would have, and still do, contain a variety of different plants and animals which might have been utilised by Aboriginal people according to seasonal availability.

In addition, many species would have provided many resources in addition to food. For example, animals such as Brush-tailed Possums were highly prized for their fur, with possum skin cloaks recorded by the first settlers in the area. Plant resources were used in a variety of ways. Fibres were twisted into string which was used for a many purposes including the weaving of nets, baskets and fishing lines (Field 1825, p. 467, cited in Sullivan 1982).

2.5 European land use history

The earliest exploration of the Southern Highlands occurred in 1798 when several explorers visited the Wingecarribee River. They were followed by Hamilton Hume and Charles Throsby and in 1817 who explored the area west of Sutton Forest; and then in 1818 they explored the area between Moss Vale and Jervis Bay with James Meehan. In 1819, Thorsby was granted 1000 acres by Governor Macquarie at Bong Bong on the outskirts of Moss Vale and named the property Throsby Park. Governor Macquarie also put Throsby in charge of building the Old Argyle Road from Sydney to Goulburn (NSW Roads and Maritime Services 2013, p.41). Throsby died in 1828, which resulted in his estates and lands passing to his nephew, Charles Throsby Jr. With his uncle, Throsby Jr managed cattle in the region. In 1834 Charles Jr was granted a further 1,000 acres south of Throsby Park.

The establishment of Moss Vale as a township began with the planning of the railway station commencing in 1846. According to the writings of Joseph Lansdowne, by 1853, Moss Vale possessed only five buildings, poorly constructed of 'bricks and slabs'. Outside of these structures the land appeared to contain thick bush and fields of wheat and it appears that the development of Moss Vale was gradual until the construction and completion of this railway line and station in 1867 by engineer John Whitton. Subdivision for the town began around 1864, with developments to the Moss Vale district including the subdivision of several large estates, as well as the inclusion of a general store, postal office and hotel to service the influx of railway workers and their families (L, Emery 2001).

By 1888, further buildings had been erected throughout Moss Vale, with James Cathman constructing a church in the town centre. By 1891, Tudor House was constructed, originally designed by J. Horbury Hunt for use as a country house for Alick Osbourne. Tudor House was later remodelled to accommodate schooling facilities following its move from Sydney in 1901 (JRC Planning Services 1993). Early parish maps dating to 1894 demonstrate the early subdivision plans of the district.

The northern portion of the study area falls within Throsby Park, with 1894 and 1914 parish maps showing the change in land use and creation of subdivision land grants to the southern portion of Throsby Park. It also shows the subdivision of James Throsby's lot in 1899, which borders the north-west portion of the study area. In 1913, this portion of the study area was transferred to William Oswald Gilchrist and subdivided into a

number of separate lots. The lot that would come to contain the current residential dwelling and structures was then owned by Elizabeth Fraser through widow transfer in 1915.

Elizabeth Fraser was a resident of Moss Vale and resided at Mt Broughton to the south west of the study area until her death in 1928. The land was passed to her son Charles Fraser who was noted as a grazier on the certificate of title. The remaining portion of Charles Throsby Juniors original grant to the south was also transferred from William Oswald Gilchrist to Charles Fraser in 1922, but it wasn't until both parcels of land were acquired by the farmer Thomas Henry Wilson in 1927 and 1936 that they were merged into the single estate.

No development in the study area or the subdivisions contained within the study area was observed in the certificates of title or parish maps until the 1942 Moss Vale District parish map, which shows two areas and acquired for housing purposes, with both locations located to the north of the study area.

3 Aboriginal cultural heritage context

3.1 Ethnohistory

Archaeological evidence clearly indicates that Aboriginal people have occupied the coastal south-eastern Australia for up to 20,000 years, and it is highly unlikely that no one was living in the Sydney greater region (Attenbrow 2010). Our knowledge of the social organisation and languages of Aboriginal people prior to European contact is, to a large extent, reliant on documents written by European people. Such documents contain the inherent bias of the class and cultures of these authors; however, they can be used in conjunction with archaeological information in order to gain a picture of Aboriginal life in the region. The majority of this information was gathered during the late nineteenth century, taking place in already decimated communities where significant disruptions to the pre-existing societies had already taken place.

The Moss Vale area is recognised as being within the traditional lands of the Gundangarra people. Tindale recorded the location of the Gundangarra peoples as at Goulburn and Berrima, down the Hawkesbury River (Wollondilly) to about Camden (Tindale 1974). The Gundangarra people were also part of the Gundangarra language group, their neighbours were Dharug, Darkinung, Wiradjuri, Ngunawa (Attenbrow 2002) and Thurrawal language groups (Koch & Hercus 2009).

These 'defined' language areas are considered to be indicative only, and would have changed through time, and possibly also changed depending on circumstances. It is more likely that language groups shared enough common dialect that definitive boundaries varied, and are not set along a single defined geological boundary. Many early sources identify the Nepean River as the boundary between the Tharawal (east) and the Gundangarra (west) (Attenbrow 2010).

Traditional Aboriginal social organisation consisted of clans and bands. It was through clans that associations with lands and sites were dictated. Marriage was between clans, and groups that included individuals who had married into the group are referred to as bands. In day to day life bands ranged over economic areas that included lands of more than a single clan. Attenbrow (2010) sums up the situation succinctly by saying 'whilst the relationship of clan to country was principally religious in character that of band to range was economic.'

Interactions between different types of social groupings would have varied with seasons and resource availability. It has been noted that interactions between the groups inhabiting the many resource zones of the Sydney Basin (coastal and inland) would have varied but were continuous. This is reflected in the relatively homogenous observable cultural features such as art motifs, technology and resource use (McDonald 2008).

The massive disruption to traditional lifestyles caused by European settlement in the Berrima – Mittagong – Moss Vale – Sutton Forest rectangle had a number of results by the later nineteenth century. Aboriginal population were reduced by European diseases. The surviving people continued something of their old lives in the west and north-west of the Wingecarribee region. In 1838 Surveyor General Mitchell called the Nattai wilderness the 'haunt and secure' retreat for his Aboriginal friends. An increasing number of Aboriginal people worked at herding, fencing and domestic chores of the white settlers (JRC Planning Services 1993).

However, the relationship between the white settlers and Aboriginal people was not always as passive. The arrival of the new settlers in the region and new competition for resources began to restrict the freedom of movement of Aboriginal hunter-gatherer inhabitants from the early 1800's. European expansion was swift and soon there had been considerable loss of traditional lands to agriculture. This led to violence and conflict between Europeans and Aboriginal people as both groups sought to compete for the same resources. In the Cowpastures region, it began following the murder of an Aboriginal woman and her children, which resulted

in violent clashes between several Aboriginal men and European settlers between 1814 and 1816 (Liston 1988). The violence had escalated by 1816 following the outlaw proclamation by Macquarie, resulting in the massacre of 14 Aboriginal people hiding at Appin. This event is known as the 'Appin Massacre' and is regarded as a pivotal part of the history of the destruction of the Aboriginal people in the region.

3.2 Aboriginal heritage located in the study area

The archaeological assessment of the study area identified the following Aboriginal sites in the study area:

- AHIMS 52-4-0193/Chelsea Gardens Locale 1.
- AHIMS 52-4-0914/Chelsea Gardens Locale 2.
- AHIMS 52-4-0689/Chelsea Gardens Locale 3

The archaeological report attached in Appendix 6 provides details for Aboriginal sites identified during the archaeological assessment and shown on Figure 3. A brief description of each site is provided below.

AHIMS 52-4-0193/Chelsea Gardens Locale 1

Chelsea Gardens Locale 1 consists of a low density scatter of eight stone artefacts eroding out of a silage pit that is currently used as a refuse area. The site is located on the western margin of the ridgeline that extends along the eastern boundary of the study area. The artefacts were found within an area measuring 50 metres north-south by 10 metres east-west, with most being located in redeposited soil excavated from the silage pit. The artefact scatter included complete completed flakes and flake pieces made from chert, silcrete, quartz and volcanic material. There is a high potential for the site to be larger than recorded, and a moderate potential exists across the landform for subsurface artefacts to occur in an undisturbed context.

AHIMS 52-4-0914/Chelsea Gardens Locale 2

Chelsea Gardens Locale 2 consists of a low density scatter of at least eleven stone artefacts eroding out of the topsoil on a small knoll to the west of the main dam and immediately south of the golf course. The recorded artefacts are visible in the patches of bare earth beneath the trees. The recorded artefacts extend over an area of 50 metres north-south by 30 metres east-west. There is a high potential for the site to be larger than recorded and, a moderate potential exists for subsurface artefacts to occur in an undisturbed context within the remaining sections of the landform.

AHIMS 52-4-0689/Chelsea Gardens Locale 3

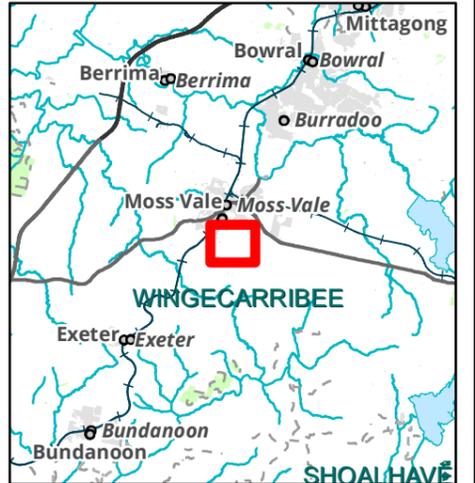
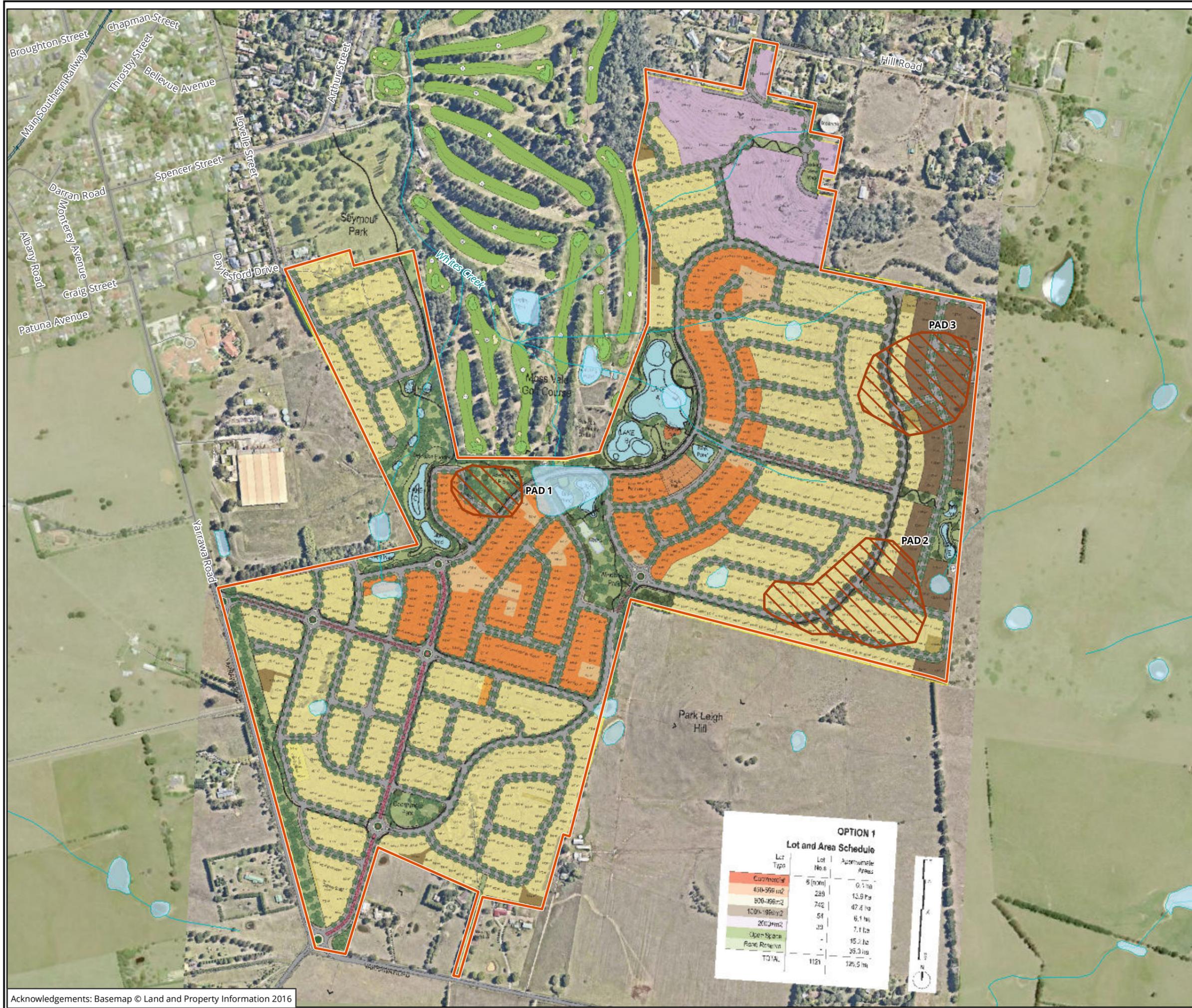
Chelsea Gardens Locale 3 is located on an undulating hill crest to the north east of Chelsea Gardens Locale 2. This site was originally assessed with moderate archaeological potential to contain subsurface deposits due to its elevated nature. Test excavations undertaken at this site, identified a small, low density deposit located at the highest point of the crest (T3P1 and T2P4). The artefact deposit at this location contained a limited range of artefactual material that was common in the local and regional area and of low scientific significance.

3.3 Interpretation of past Aboriginal land use

The area is situated between the confluences of two creek lines, which eventually flows into the Wingecarribee River located approximately 8 kilometre north of the study area. The Wingecarribee River flows from west to east through the Southern Highlands past the Illawarra ranges into other tributaries that flow into Illawarra Basin. The surrounding landforms consist of undulating rises grading to low hills and rounded peaks with deep channel incisions.

There are no specific historical references to the Aboriginal occupation of the study area; however, the type of sites located within the study area and the results of the test excavations attest to the presence of Aboriginal people in the past.

Seven kilometres north of the study area, extensive test excavations were conducted by Biosis (2019) that demonstrated that the highest density of artefacts were recovered from alluvial deposits adjacent to drainage lines. The high frequency of tools recorded in the assemblage indicates that the area was likely to have been used as either a tool processing area or as an occupation area (or camp site) where tools were discarded. Likewise, EMM (2017) conducted an extensive survey and large subsurface archaeological testing program 12 kilometres north-west of the study area consisting of 160 test pits that recovered 281 artefacts. The results of both the survey and test excavations confirmed that the presence of stone artefacts is linked directly to distance to streams and that the presence and frequency of surface artefacts sites is not a reliable indicator of subsurface frequencies. This is further supported by the results of the current test excavations.



- Legend**
- Study area
 - Potential Archaeological Deposit (PAD)

Figure 3 Aboriginal sites within the study area



Metres
 Scale: 1:7,000 @ A3
 Coordinate System: GDA 1994 NSW Lambert



Albury, Ballarat, Melbourne,
 Newcastle, Sydney, Wangaratta & Wollongong

**OPTION 1
 Lot and Area Schedule**

Lot Type	Lot Nos	Approximate Areas
Commercial	8 (nom)	0.7 ha
400-500 m ²	280	12.9 ha
800-1000 m ²	742	47.4 ha
1000-1900 m ²	54	6.1 ha
2000 m ²	13	7.1 ha
Open Space	-	15.2 ha
Rain Reserve	-	39.3 ha
TOTAL	1121	125.5 ha

4 Aboriginal community consultation

Consultation with the Aboriginal community has been undertaken in compliance with the consultation requirements as detailed below. A consultation log of all communications with RAPs is provided in Appendix 1.

4.1 Stage 1: Notification of project proposal and registration of interest

4.1.1 Identification of relevant Aboriginal stakeholders

In accordance with the consultation guidelines, Biosis Pty Ltd notified the following bodies regarding the proposal:

- Wingecarribee Shire Council.
- DPIE.
- NSW Native Title Services Corporation Limited (NTSCORP Limited).
- Office of the Registrar, Aboriginal Land Rights Act 1983 of Aboriginal Owners.
- National Native Title Tribunal (NNTT).
- South East Local Land Services.
- Illawarra Local Aboriginal Land Council (ILALC).

A list of known Aboriginal stakeholders in the Moss Vale was provided by DPIE (a copy of this responses is provided in Appendix 2 and include:

- Badu (Murrin Clan/Peoples)
- Barraby Cultural Services
- Bellambi Indigenous Corporation Gandangarra Traditional Owners
- Biamanga (Murrin Clan/Peoples)
- Bilinga (Murrin Clan/Peoples)
- Bilinga Cultural Heritage Technical Services (Mirramajah)
- Cullendulla (Murrin Clan/Peoples)
- Darug Land Observations
- Dharug (Murrin Clan/Peoples)
- Duncan Falk Consultancy
- Gadhu Dreaming
- Pemulwuy (Murrin Clan/Peoples)
- Tharawal Local Aboriginal Land Council
- Thoorga Nura
- Three Ducks Dreaming Surveying and Consulting
- Tungai Tonghi
- Walbunja (Murrin Clan/Peoples)
- Walgalu (Murrin Clan/Peoples)
- Warra Bingi Nunda Gurri
- Wingikara (Murrin Clan/Peoples)
- Wingikara Cultural Heritage Technical Services (Mirramajah)
- Woronora Plateau Gundungara Elders Council

- Garrara Aboriginal Corporation
- Goobah Development Pty Ltd (Murrin Clan/Peoples)
- Gundungurra Aboriginal Heritage Association Inc
- Gundungurra Tribal Council Aboriginal Corporation
- Gundungurra Tribal Technical Services
- Gunyuu (Murrin Clan/Peoples)
- Gunyuu Cultural Heritage Technical Services (Mirramajah)
- Guunamaa Dreaming Sites and Surveying
- Illawarra Local Aboriginal Land Council
- Leanne Tungai
- Jerringong (Murrin Clan/Peoples)
- Karrial (Murrin Clan/Peoples)
- Minnamunnung
- Munyunga (Murrin Clan/Peoples)
- Munyunga Cultural Heritage Technical Services (Mirramajah)
- Murramarang (Murrin Clan/Peoples)
- Murrumbul (Murrin Clan/Peoples)
- Murrumbul Cultural Heritage Technical Services (Mirramajah)
- Nundagurri (Murrin Clan/Peoples)
- Pejar Local Aboriginal Land Council
- Wullung (Murrin Clan/Peoples)
- Yamanda Aboriginal Association
- Yerramurra (Murrin Clan/Peoples)
- Gary Caines
- James Davis
- Darryl Caines
- Raymond Garbutt
- Murra Bidgee Mullangari Aboriginal Corporation
- Cubbitch Barta
- South West Rocks Corporation
- Coomaditchie Aboriginal Corporation
- Korewal Elouera Jerrungarugh Tribal
- Wodi Wodi Traditional Owners Corporation
- Gundungurra Tribal Council Aboriginal organisation
- Jo Albany
- Trish Levitt
- Platypus Dreamin
- Gibbergunyah Aboriginal Association
- Adrian Shafer
- Families Sharing Culture Aboriginal Corporation

The Office of the Registrar, *Aboriginal Land Rights Act 1983* were contacted but did not respond to request for stakeholder details. A search conducted by the National Native Title Tribunal (NNTT) for the Wingecarribee shire listed one Registered Native Title Claim by the South Coast People, no Unregistered Claimant Applications, and one Registered Indigenous Land Use Agreement for the Gundungurra Area agreement; The study area is located on freehold land and the above Native Title Claims and Land Use agreements are therefore extinguished in the study area.

4.1.2 Public notice

In accordance with the consultation guidelines, a public notification was placed in the following newspaper:

- Southern Highlands News (5 September 2018).

The advertisement invited Aboriginal people who hold cultural knowledge to register their interest in a process of community consultation to provide assistance in determining the significance of Aboriginal object(s) and/or places in the vicinity of the study area. A copy of the public notice is provided in Appendix 2.

4.1.3 Registration of Aboriginal parties

Aboriginal groups identified in Section 4.1.1 were sent a letter inviting them to register their interest in a process of community consultation to provide assistance in determining the significance of Aboriginal object(s) and/or places in the vicinity of the study area. In response to the letters and public notice, a total of 10 groups registered their interest in the project. Responses to registration from Aboriginal parties are provided in Appendix 3. A full list of Aboriginal parties who registered for consultation is provided below:

- Guunamaa Dreaming Sites and Surveying
- James Davis
- Tungai Tonghi
- Cubbitch Barta
- Leanne Tungai
- Illawarra Local Aboriginal Land Council
- Woronora Plateau Gundungara Elders Council
- Duncan Falk Consultancy
- Yurrandaali
- Yulay Cultural Services
- Barraby Cultural Services

4.2 Stage 2: Presentation of information about the proposed project

On 19 October 2018, Biosis provided RAPs with details about the proposed development works (project information pack). A copy of the project information pack is provided in Appendix 3.

4.3 Stage 3: Gathering information about cultural significance

4.3.1 Archaeological assessment methodology information pack

On 19 October 2018, Biosis provided each RAP with a copy of the project methodology pack outlining the proposed ACHA process and methodology for this project. RAPs were given 28 days to review and prepare feedback on the proposed methodology with the closing date for comments 16 November 2018. A copy of the project methodology pack is provided in Appendix 4.

Comments were received from four groups, Yurrandaali, Barraby, Yulay, and Tungai Tonghi, who all indicated their support of the project methodology.

4.3.2 Information gathered during fieldwork

Duncan Falk of Duncan Falk Consulting participated in the field survey and noted that Park Leigh Hill, located immediately south east of the study area held cultural significance, and sites in the area could be associated with that site, he also noted that the study area had been utilised by Aboriginal people evidenced by the sites that were recorded.

4.3.3 Project Updates

RAPs were given an update of the project six months following completion of stage 3 consultation, on the 21 May 2019, to notify them of the intention to undertake test excavations in July

4.4 Stage 4: Review of draft ACHA report

The RAPs were provided the draft ACHA report for review on the 12 November 2019 and were given 28 days to provide comment, with the consultation period ending on the 10 December 2019. The RAP groups were also contacted on the 28 November 2019 by phone and email to follow up and ask if they would like to comment.

Two comments were received commenting on the draft report. The first comment was received from Richard Campbell of Guunamaa Dreaming Sites and Surveying on the 12 November 2019. Richard noted that Aboriginal artefact should be reburied. He also noted that that he was worried about the grinding grooves which were “very old”; however, no grinding grooves were located within the study area and it was confirmed that this was in reference to a separate assessment located outside of the study area.

Duncan Falk of Duncan Falk Consulting commented on the 30 November 2019. Duncan supported the recommendations for Chelsea Gardens Locale 1 and Chelsea Gardens Locale 3; however noted two concerns with recommendations for Chelsea Garden 2. He noted that the wording of the recommendations did not give a sense of certainty that activity that would impact the site will not be conducted within the area.

Duncan suggested that their needed to be “written confirmation from the developer that the site will not be impacted at all and a management plan including the implementation of fencing to cordon the area off during development is put in place.” He also suggested salvage of the site be conducted as impacts to Chelsea Gardens Locale 2 were inevitable despite the recommendations, noting that “Realistically with the amount of earth moving machines and activity on the site during the different phases of development the probability of an impact occurring is high, and the unless the developer is willing to induct every single person who is to work on the site about the cultural sensitivity and nature of the PAD it would be wise to conduct a salvage at the earliest convenience.”

Biosis responded to Duncan’s concerns in an email on the 3 December 2019. Biosis noted they would include his response within the ACHA and updated the report recommendations to include the suggested measures including fencing of the proposed conservation area in Chelsea Gardens Locale 2, a site induction for construction workers and archaeological salvage if works will result in future impacts to the conservation area of Chelsea Gardens Locale 2. Discussions with the proponent indicated that they will not be undertaking works in the proposed conservation area.

5 Aboriginal cultural significance assessment

The two main values addressed when assessing the significance of Aboriginal sites are cultural values to the Aboriginal community and archaeological (scientific) values. This report will assess the cultural values of Aboriginal sites in the study area. Details of the scientific significance assessment of Aboriginal sites in the study area are provided in Appendix 6.

5.1 Introduction to the assessment process

Heritage assessment criteria in NSW fall broadly within the significance values outlined in the Australia International Council on Monuments and Sites (ICOMOS) *Burra Charter: The Australia ICOMOS Charter for Places of Cultural Significance* (Australia ICOMOS 2013) (the Burra Charter). This approach to heritage has been adopted by cultural heritage managers and government agencies as the set of guidelines for best practice heritage management in Australia. These values are provided as background and include:

- **Historical significance** (evolution and association) refers to historic values and encompasses the history of aesthetics, science and society, and therefore to a large extent underlies all of the terms set out in this section. A place may have historic value because it has influenced, or has been influenced by, a historic figure, event, phase or activity. It may also have historic value as the site of an important event. For any given place the significance will be greater where evidence of the association or event survives *in situ*, or where the settings are substantially intact, than where it has been changed or evidence does not survive. However, some events or associations may be so important that the place retains significance regardless of subsequent treatment.
- **Aesthetic significance** (Scenic/architectural qualities, creative accomplishment) refers to the sensory, scenic, architectural and creative aspects of the place. It is often closely linked with social values and may include consideration of form, scale, colour, texture, and material of the fabric or landscape, and the smell and sounds associated with the place and its use.
- **Social significance** (contemporary community esteem) refers to the spiritual, traditional, historical or contemporary associations and attachment that the place or area has for the present-day community. Places of social significance have associations with contemporary community identity. These places can have associations with tragic or warmly remembered experiences, periods or events. Communities can experience a sense of loss should a place of social significance be damaged or destroyed. These aspects of heritage significance can only be determined through consultative processes with local communities.
- **Scientific significance** (Archaeological, industrial, educational, research potential and scientific significance values) refers to the importance of a landscape, area, place or object because of its archaeological and/or other technical aspects. Assessment of scientific value is often based on the likely research potential of the area, place or object and will consider the importance of the data involved, its rarity, quality or representativeness, and the degree to which it may contribute further substantial information.

The cultural and archaeological significance of Aboriginal and historic sites and places is assessed on the basis of the significance values outlined above. As well as the Burra Charter significance values guidelines, various government agencies have developed formal criteria and guidelines that have application when assessing the significance of heritage places within NSW. Of primary interest are guidelines prepared by the Australian

Government, the NSW DPIE and the Heritage Branch, and the NSW Department of Planning and Environment. The relevant sections of these guidelines are presented below.

These guidelines state that an area may contain evidence and associations which demonstrate one or any combination of the Burra Charter significance values outlined above in reference to Aboriginal heritage. Reference to each of the values should be made when evaluating archaeological and cultural significance for Aboriginal sites and places.

In addition to the previously outlined heritage values, the OEH *Guidelines to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW* (OEH 2011) also specify the importance of considering cultural landscapes when determining and assessing Aboriginal heritage values. The principle behind a cultural landscape is that 'the significance of individual features is derived from their inter-relatedness within the cultural landscape'. This means that sites or places cannot be 'assessed in isolation' but must be considered as parts of the wider cultural landscape. Hence the site or place will possibly have values derived from its association with other sites and places. By investigating the associations between sites, places, and (for example) natural resources in the cultural landscape the stories behind the features can be told. The context of the cultural landscape can unlock 'better understanding of the cultural meaning and importance' of sites and places.

Although other values may be considered – such as educational or tourism values – the two principal values that are likely to be addressed in consideration of Aboriginal sites and places are the cultural/social significance to Aboriginal people and their archaeological or scientific significance to archaeologists and the Aboriginal community. The determinations of archaeological and cultural significance for sites and places should then be expressed as statements of significance that preface a concise discussion of the contributing factors to Aboriginal cultural heritage significance.

5.2 Cultural (social significance) values

Cultural or social significance refers to the spiritual, traditional, historical and/or contemporary associations and values attached to a place or objects by Aboriginal people. Aboriginal cultural heritage is broadly valued by Aboriginal people as it is used to define their identity as both individuals and as part of a group (DECCW 2010a, pp. iii). More specifically it provides:

- A 'connection and sense of belonging to Country' (DECCW 2010a, pp. iii).
- A link between the present and the past (DECCW 2010a, pp. 3).
- A learning tool to teach Aboriginal culture to younger Aboriginal generations and the general public (DECCW 2010 p.3).
- Further evidence of Aboriginal occupation prior to European settlement for people who do not understand the magnitude to which Aboriginal people occupied the continent (DECCW 2010a, pp. 3).

It is acknowledged that Aboriginal people are the primary determiners of the cultural significance of Aboriginal cultural heritage. During consultation the following information was provided by RAPs in regards to the cultural values of the study area. RAPs identified the area with high cultural significance due to the presence of sites indicating its use by Aboriginal people.

5.3 Historic values

Historic significance refers to associations a place or object may have with a historically important person, event, phase or activity to the Aboriginal and other communities. The study area is not known to have any historic associations.

5.4 Archaeological (scientific significance) values

An archaeological scientific assessment was undertaken for the study area and is presented in detail as part of the attached Archaeological Report (Appendix 6) and below in section 5.6.

5.5 Aesthetic values

Even though the study area demonstrates heavy disturbances in some areas, it is a typical example of rolling hills and rounded peaks surrounding the confluence of two creek lines, which adds to the aesthetic values of the study area. The landscape of the study area is closely linked with Aboriginal cultural values and provides a context for Aboriginal sites that gives a strong sense of place. The Southern Highlands and Illawarra community strongly identifies with the landscape of the study area.

5.6 Statement of significance

5.6.1 Statement of significance for 52-4-0193/Chelsea Gardens Locale 1

AHIMS 52-4-0193/Chelsea Gardens Locale 1 consists of a low density scatter of eight stone artefacts eroding out of a silage pit that is currently used as a refuse area. The site is located on the western margin of the ridgeline that extends along the eastern boundary of the study area. The artefacts were found within an area measuring 50 metres north-south by 10 metres east-west, with most being located in redeposited soil excavated from the silage pit. The artefact scatter included complete flakes and flake pieces made from chert, silcrete, quartz and volcanic material. Test excavations at this site confirmed the presence of a spread out, low density artefact deposit containing a limited range of artefact types across a hill crest and ridgeline landform, with 24 total sub surface artefacts identified. Portions of this site have been disturbed from the silage pit and agricultural uses of the study area. The artefact assemblage also displayed evidence of vertical movement of artefacts and heavy fragmentation, possibly as a result of ploughing and cattle trampling which has occurred in the study area. The scientific significance of this is assessed as low, due to the low density, disturbed nature of the site.

5.6.2 Statement of significance for 52-4-0914/Chelsea Gardens Locale 2

AHIMS 52-4-0914/Chelsea Gardens Locale 2 consists of a low density scatter of at least eleven stone artefacts eroding out of the topsoil on a small knoll to the west of the main dam and immediately south of the golf course. The recorded artefacts were visible in the patches of bare earth beneath the trees. The recorded artefacts extend over an area of 50 metres north-south by 30 metres east-west. Test excavations of this site identified 92 artefacts representing a moderate density deposit, with some diversity of artefact types present. Parts of this site had been disturbed through previous land uses, but the area of highest density located in the centre of the site remained relatively intact. This site is assessed with moderate scientific significance due to its density, diversity and intactness.

5.6.3 Statement of significance for 52-4-0689/Chelsea Gardens Locale 3

Chelsea Gardens Locale 3 is located on an undulating hill crest to the north east of Chelsea Gardens Locale 2. This site was originally assessed with moderate archaeological potential to contain subsurface deposits due

to its elevated nature. Test excavations undertaken at this site, identified 4 artefacts making a small, low density deposit located at the highest point of the crest (T3P1 and T2P4). The artefact deposit at this location contained a limited range of artefactual material that was common in the local and regional area and of low scientific significance.

The significance of sites was assessed in accordance with the following criteria:

- Requirements of the Code.
- The Burra Charter.

The combined use of these guidelines is widely considered to represent the best practice for assessments of Aboriginal cultural heritage. The identification and assessment of cultural heritage values includes the four values of the Burra Charter: social, historical, scientific and aesthetic values. The resultant statement of significance has been constructed for the study area based on the significance ranking criteria assessed in Table 3.

Table 3 Significance assessment criteria

Site name	Criteria	Ranking
Chelsea Gardens Locale 1 AHIMS 52-4-0193	Cultural – discussions with the local Aboriginal communities reflect that the site is high in value.	High
	Historical – the site is not connected to any historical event or personage.	Low
	Scientific – the site possesses moderate archaeological values.	Low
	Aesthetic – the site is located at on the crest of hill and provides view over alluvial flats. A golf course and a number of dams are visible from this location resulting in a moderate aesthetic significance	Moderate
Chelsea Gardens Locale 2 AHIMS 52-4-0194	Cultural – discussions with the local Aboriginal communities reflect that the site is high in value.	High
	Historical – the site is not connected to any historical event or personage.	Low
	Scientific – the site possesses moderate archaeological values. Test excavations have revealed a moderate density site, with moderate diversity of artefact types.	Moderate
	Aesthetic – the site is located at the confluence of two creek lines within a hillock landform. A number of disturbances from a nearby golf course, large dam, and a cattle pen are visible resulting in a moderate aesthetic significance.	Moderate
Chelsea Gardens Locale 2 AHIMS 52-4-0194	Cultural – discussions with the local Aboriginal communities reflect that the site is high in value.	High
	Historical – the site is not connected to any historical event or personage.	Low
	Scientific – the site possesses moderate archaeological values.	Low

Site name	Criteria	Ranking
	Aesthetic – the site is located at on the crest of hill and provides view over alluvial flats. A golf course and a number of dams are visible from this location resulting in a moderate aesthetic significance	Moderate

6 Impact assessment

As previously outlined, the project proposes to subdivide Lot 3 DP 706194 and Lot 12 DP 866036 Moss Vale for residential purposes of land contiguous with the township of Moss Vale NSW. The development is likely to involve civil works to facilitate the construction of infrastructure to support a residential land development, which will consist of landscaping, excavation and installation of services, footings and roads.

6.1 Predicted physical impacts

This ACHA will support a development application to Wingecarribee Shire Council for the proposed residential development within the study area. A total of 1,121 lots will be subdivided and developed, with a number of lakes, ponds and recreational areas also proposed. As part of these works bulk earthworks associated with residential development will involve the removal of topsoil and subsoils, while heavy vehicle movement will have the potential to compact surface soils. Left unmitigated, these activities have the potential to completely remove or disturb archaeological deposits and Aboriginal objects in the study area.

A summary of impacts is provided below in Table 4.

Table 4 Summary of potential archaeological impacts

AHIMS site no.	Site name	Significance	Type of harm	Degree of harm	Consequence of harm
52-4-0193	Chelsea Gardens Locale 1	Low	Direct	Total	Total loss of value
52-4-0194	Chelsea Gardens Locale 2	Moderate	Direct	Partial	Partial loss of value
52-4-0689	Chelsea Gardens Local 3	Low	Direct	Total	Total loss of value

6.2 Management and mitigation measures

Ideally, heritage management involves conservation of sites through the preservation and conservation of fabric and context within a framework of 'doing as much as necessary, as little as possible' (Marquis-Kyle & Walker 1994, p.13). In cases where conservation is not practical, several options for management are available. For sites, management often involves the salvage of features or artefacts, retrieval of information through excavation or collection (especially where impact cannot be avoided) and interpretation.

Avoidance of impact to archaeological and cultural heritage sites through design of the development is the primary mitigation and management strategy, and should be implemented where practicable. The following mitigation measures, which considered the principles of ecologically sustainable development (ESD) and intergenerational equity in their design, are proposed.

Test excavations were conducted across two PAD areas associated with AHIMS 52-4-0193/Chelsea Gardens Locale 1 and 52-4-0194/Chelsea Gardens Locale 2, along with another area of PAD associated with a crest landform in the north east portion of the study area. The results of the test excavations identified that AHIMS 52-4-0194/Chelsea Gardens Locale 2 contains a medium density, partially intact subsurface archaeological deposit with a moderate range of artefact types, while 52-4-0193/Chelsea Gardens Locale 1 and Chelsea Garden Locale 3 contain low density subsurface archaeological deposits with a limited range of artefact types and poor subsurface intactness.

It is not possible to avoid impacts to AHIMS 52-4-0193/Chelsea Gardens Locale 1 and Chelsea Garden Locale 3 therefore an AHIP application is recommended. Test excavations have uncovered valuable information regarding these sites and the recovered artefacts have been analysed, given the lower density and limited range of artefacts at 52-4-0193/Chelsea Gardens Locale 1 and Chelsea Garden Locale 3 as well as the common nature of these site types in the region, no further mitigation measures are recommended. Artefacts should be given to the Illawarra Local Aboriginal land Council for safe keeping where they can be repatriated or used as teaching tools for future generations.

The proposed works will result in partial impacts to AHIMS 52-4-0194/Chelsea Gardens Locale 2 which contained a medium density artefact deposit with a moderate range of artefact types. These impacts are currently confined to the boundaries of this site, where low density artefact numbers were recovered. The areas of moderate density deposit at this site are designated as green space and will be avoided by the current works. It is recommended that further impacts to this site be avoided and the area of moderate density continue to be conserved as a green space so that cumulative impacts to this site are kept to a minimum. If further impacts are likely to occur to AHIMS 52-4-0194/Chelsea Gardens Locale 2 it is recommended that the area of medium artefact density (Pits P3, P4, P8 and P11) undergo a program of salvage excavation.

7 Recommendations

The recommendations below respond specifically to the wishes of the RAPs. Recommendations regarding the archaeological value of the site, and the subsequent management of Aboriginal cultural heritage is provided in the archaeological report (Appendix 6).

Recommendation 1: Conservation of AHIMS 52-4-0194/Chelsea Gardens Locale 2

AHIMS 52-4-0194/Chelsea Gardens Locale 2 has been identified as having moderate archaeological significance. The archaeological test excavations have identified a medium density partially intact subsurface archaeological deposit within a hillock landform at the confluence of two creeklines. Therefore, it is recommended that this area of medium density deposit be conserved as a green space and no further ground disturbances occur, including landscaping. It is recommended that no go fencing is placed around the portion of AHIMS 52-4-0194/Chelsea Gardens Locale 2 that will not be impacted and construction personnel undergo a site induction to avoid accidental impacts. If impacts to the areas of highest density currently located outside of proposed works are to occur, then a program of salvage excavations is recommended.

Recommendation 2: Application for an AHIP to harm AHIMS 52-4-0193/Chelsea Gardens Locale 1, AHIMS 52-4-0194/Chelsea Gardens Locale 2 and AHIMS 52-4-0689/Chelsea Gardens Locale 3

The proposed works will result in direct impacts, with a total loss of value to AHIMS 52-4-0193/Chelsea Gardens Locale 1 and AHIMS 52-4-0689/Chelsea Garden Locale 3, and partial loss of value to AHIMS 52-4-0194/Chelsea Gardens Locale 2. It is recommended that Aoyuan International apply to the DPIE for an area wide Aboriginal Heritage Impact Permit (AHIP) covering the entirety of the study area for a term of 20 years. The AHIP should allow for the following:

- Total Impact to the recorded Aboriginal cultural heritage sites AHIMS 52-4-0193/Chelsea Gardens Locale 1 and AHIMS 52-4-0689/Chelsea Garden Locale 3.
- Partial impacts to AHIMS 52-4-0194/Chelsea Gardens Locale 2, avoiding the area of moderate density within this site.
- Impact within the limits of the area wide AHIP for any further Aboriginal objects encountered during construction, unless human remains are identified.

A site impact recording form for registered Aboriginal site AHIMS 52-4-0193/Chelsea Gardens Locale 1, AHIMS 52-4-0194/Chelsea Gardens Locale 2, and AHIMS 52-4-0689/Chelsea Garden Locale 3 should also be completed and submitted to the DPIE following impacts to the site.

For information about AHIPs and their preparation, see below.

Advice preparing AHIPs

An AHIP is required for any activities likely to have an impact on Aboriginal objects or Places or cause land to be disturbed for the purposes of discovering an Aboriginal object. The DPIE issues AHIPs under Part 6 of the NPW Act.

AHIPs should be prepared by a qualified archaeologist and lodged with the DPIE. Once the application is lodged processing time can take between 8-12 weeks. It should be noted that there will be an application fee levied by the DPIE for the processing of AHIPs, which is dependent on the estimated total cost of the development project.

Where there are multiple sites within one study area an application for an AHIP to cover the entire study area is recommended.

Recommendation 3: Establish care and control of Aboriginal objects

All artefacts identified during the test excavations should be reburied in an area adjacent to the study area which will not be impacted by future developments, or given to the Illawarra LALC for safe keeping.

Recommendation 4: Discovery of Aboriginal Ancestral Remains

Aboriginal ancestral remains may be found in a variety of landscapes in NSW, including middens and sandy or soft sedimentary soils. If any suspected human remains are discovered during any activity you must:

1. Immediately cease all work at that location and not further move or disturb the remains.
2. Notify the NSW Police and DPIE's Environmental Line on 131 555 as soon as practicable and provide details of the remains and their location.
3. Not recommence work at that location unless authorised in writing by DPIE.

References

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DECCW 2010b. *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales*, Department of Environment and Climate Change, Sydney NSW.

OEH 2011. *Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW*, Office of Environment and Heritage.

Appendices

Appendix 1 Consultation log

Stage 1 – Notification of project proposal and registration of interest

Step 1- Identification of Aboriginal people/parties with an interest in the proposed study area.

Organisation contacted	Date and type of contact	Date and type of response	Response details
OEH (now DPIE)	30/8/2018 – email	11/9/2018 - email	Provided a list of Aboriginal stakeholder groups for the Highlands area
Illawarra LALC	30/8/2018 – email	30/8/2018 - phone	Registered an interest
NTSCORP Limited	30/8/2018 – email		-
Office of the Registrar, Aboriginal Land Rights Act 1983	30/8/2018 – email		-
South East Local Land Services	30/8/2018 – email		
NNTT	30/8/2018 – email	30/8/2018 – email	Provided a list of native title claims and land agreements for the Wingecarribee Shire LGA as the study area is freehold land and extinguishes native title.
Wingecarribee Shire Council	30/8/2018 – email	3/09/2018 - email	Provided a list of stakeholders in the Wingecarribee Shire

Step 2- Public advertisement

The public notice was published in the Southern Highlands News on the 5 September 2019. A copy of the advertisement is provided in Appendix 2.

Step 3- Registration of interest

The registration period ran from the 12 September to 28 September 2018. Leeway was given to Aboriginal parties/groups who provided responses shortly after the close of this period and they have been registered as Aboriginal parties for consultation.

Organisation contacted	Date and type of contact	Date and type of response	Response details
Badu (Murrin Clan/Peoples)	12/9/2018 – email		
Barraby Cultural Services	12/9/2018 – email	12/9/2018 – phone	Registered interest for Barraby, Yulay and Yurrandaali
Bellambi Indigenous Corporation Gandangarra Traditional Owners	12/9/2018 – email		

Organisation contacted	Date and type of contact	Date and type of response	Response details
Biamanga (Murrin Clan/Peoples)	12/9/2018 – email		
Bilinga (Murrin Clan/Peoples)	12/9/2018 – email		
Bilinga Cultural Heritage Technical Services (Mirramajah)	12/9/2018 – email		
Cullendulla (Murrin Clan/Peoples)	12/9/2018 – email		
Darug Land Observations	12/9/2018 – email		
Dharug (Murrin Clan/Peoples)	12/9/2018 – email		
Duncan Falk Consultancy	12/9/2018 – email	20/9/2018 – email	Registered interest
Gadhu Dreaming	12/9/2018 – email		
Garrara Aboriginal Corporation	12/9/2018 – email		
Goobah Development Pty Ltd (Murrin Clan/Peoples)	12/9/2018 – email		
Gundungurra Aboriginal Heritage Association Inc	12/9/2018 – email		
Gundungurra Tribal Council Aboriginal Corporation	12/9/2018 – email		
Gundungurra Tribal Technical Services	12/9/2018 – email		
Gunyuu (Murrin Clan/Peoples)	12/9/2018 – email		
Gunyuu Cultural Heritage Technical Services (Mirramajah)	12/9/2018 – email		
Guunamaa Dreaming Sites and Surveying	12/9/2018 – email	12/9/2018 – email	Registered interest
Illawarra Local Aboriginal Land Council	12/9/2018 – email		
Leanne Tungai	12/9/2018 – email	14/9/2018 – email	Registered interest
Jerringong (Murrin Clan/Peoples)	12/9/2018 – email		

Organisation contacted	Date and type of contact	Date and type of response	Response details
Karriai (Murrin Clan/Peoples)	12/9/2018 – email		
Minnamunnung	12/9/2018 – email		
Munyunga (Murrin Clan/Peoples)	12/9/2018 – email		
Munyunga Cultural Heritage Technical Services (Mirramajah)	12/9/2018 – email		
Murramarang (Murrin Clan/Peoples)	12/9/2018 – email		
Murrumbul (Murrin Clan/Peoples)	12/9/2018 – email		
Murrumbul Cultural Heritage Technical Services (Mirramajah)	12/9/2018 – email		
Nundagurri (Murrin Clan/Peoples)	12/9/2018 – email		
Pejar Local Aboriginal Land Council	12/9/2018 – email		
Pemulwuy (Murrin Clan/Peoples)	12/9/2018 – email		
Tharawal Local Aboriginal Land Council	12/9/2018 – email		
Thoorga Nura	12/9/2018 – email		
Three Ducks Dreaming Surveying and Consulting	12/9/2018 – email		
Tungai Tonghi	12/9/2018 – email	12/9/2018 – email	Registered interest
Walbunga (Murrin Clan/Peoples)	12/9/2018 – email		
Walgalu (Murrin Clan/Peoples)	12/9/2018 – email		
Warra Bingi Nunda Gurri	12/9/2018 – email		
Wingikara (Murrin Clan/Peoples)	12/9/2018 – email		
Wingikara Cultural Heritage Technical Services (Mirramajah)	12/9/2018 – email		

Organisation contacted	Date and type of contact	Date and type of response	Response details
Woronora Plateau Gundungara Elders Council	12/9/2018 – email	17/9/2018 – email	Registered interest
Wullung (Murrin Clan/Peoples)	12/9/2018 – email		
Yamanda Aboriginal Association	12/9/2018 – email		
Yerramurra (Murrin Clan/Peoples)	12/9/2018 – email		
Gary Caines	12/9/2018 – email		
James Davis	12/9/2018 – email	14/9/2018 – email	Registered interest
Darryl Caines	12/9/2018 – email		
Raymond Garbutt	12/9/2018 – email		
Murra Bidgee Mullangari Aboriginal Corporation	12/9/2018 – email		
Cubbitch Barta	12/9/2018 – email	14/9/2018 – email	Registered interest
South West Rocks Corporation	12/9/2018 – post		
Coomaditchie Aboriginal Corporation	12/9/2018 – email		
Korewal Elouera Jerrungarugh Tribal	12/9/2018 – email		
Wodi Wodi Traditional Owners Corporation	12/9/2018 – email		
Gundungurra Tribal Council Aboriginal organisation	12/9/2018 – email		
Jo Albany	12/9/2018 – email		
Trish Levitt	12/9/2018 – email		
Platypus Dreamin	12/9/2018 – email		
Gibbergunyah Aboriginal Association	12/9/2018 – email		
Adrian Shafer	12/9/2018 – post		
Families Sharing Culture Aboriginal Corporation	12/9/2018 – email		

Stage 2 – Presentation of information about the proposed project

Step 1- Provision of project information pack

A copy of the information pack is provided in Appendix 3 and a copy of the covering email is provided following.

Organisation contacted	Date and type of contact	Date and type of response	Response details
Guunamaa Dreaming Sites and Surveying	19/10/2018 - email	-	-
James Davis	19/10/2018 - email	-	-
Tungai Tonghi	19/10/2018 - email	-	-
Cubbitch Barta	19/10/2018 - email	-	-
Leanne Tungai	19/10/2018 - email	-	-
Illawarra Local Aboriginal Land Council	19/10/2018 - email	-	-
Woronora Plateau Gundungara Elders Council	19/10/2018 - email	-	-
Duncan Falk Consultancy	19/10/2018 - email	-	-
Yurrandaali	19/10/2018 - email	-	-
Yulay Cultural Services	19/10/2018 - email	-	-
Barraby Cultural Services	19/10/2018 - email	-	-

Stage 3 – Gathering information about cultural significance

Step 1- Provision of project methodology pack and consultation meeting

A copy of the methodology pack is provided in Appendix 4. RAPs were given 28 days from the 19 October 2018 to the 17 November 2018 to provide comment on the proposed methodology.

Organisation contacted	Date and type of contact	Date and type of response	Response details
Guunamaa Dreaming Sites and Surveying	19/10/2018 - email	-	-
James Davis	19/10/2018 - email	-	-
Tungai Tonghi	19/10/2018 - email	27/10/2018 – email	Agreed with methodology
Cubbitch Barta	19/10/2018 - email	-	-
Leanne Tungai	19/10/2018 - email	-	-
Illawarra Local Aboriginal Land Council	19/10/2018 - email	-	-

Organisation contacted	Date and type of contact	Date and type of response	Response details
Woronora Plateau Gundungara Elders Council	19/10/2018 - email	-	-
Duncan Falk Consultancy	19/10/2018 - email	-	-
Yurrandaali	19/10/2018 - email	22/10/2018 – email	Agreed with methodology
Yulay Cultural Services	19/10/2018 - email	22/10/2018 – email	Agreed with methodology
Barraby Cultural Services	19/10/2018 - email	22/10/2018 – email	Agreed with methodology

RAPs were given an update of the project six months following completion of stage 3 consultation, on the 21 May 2019, to notify them of the intention to undertake test excavations in July. A copy of this update is provided in Appendix 4.

Organisation contacted	Date and type of contact	Date and type of response	Response details
Guunamaa Dreaming Sites and Surveying	21/05/2019 - email	-	-
James Davis	21/05/2019 - email	-	-
Tungai Tonghi	21/05/2019 - email	-	-
Cubbitch Barta	21/05/2019 - email	-	-
Leanne Tungai	21/05/2019 - email	-	-
Illawarra Local Aboriginal Land Council	21/05/2019 - email	-	-
Woronora Plateau Gundungara Elders Council	21/05/2019 - email	-	-
Duncan Falk Consultancy	21/05/2019 - email	-	-
Yurrandaali	21/05/2019 - email	-	-
Yulay Cultural Services	21/05/2019 - email	-	-
Barraby Cultural Services	21/05/2019 - email	-	-

Stage 4 – Review of draft report

Step 1- Provision of draft report for review

The Draft ACHA was provided to RAPs on the 12 November 2019 with the consultation period ending on the 10 December 2019.

Organisation contacted	Date and type of contact	Date and type of response	Response details
Guunamaa Dreaming Sites and Surveying	12/11/2019 – email, 28/11/2019r – phone/email	12/11/2019 - email	Recommended artefacts be reburied on site.
James Davis	12/11/2019 – email, 28/11/2019r – phone/email	-	-
Tungai Tonghi	12/11/2019 – email, 28/11/2019r – phone/email	-	-
Cubbitch Barta	12/11/2019 – email, 28/11/2019r – phone/email	-	-
Leanne Tungai	12/11/2019 – email, 28/11/2019r – phone/email	-	-
Illawarra Local Aboriginal Land Council	12/11/2019 – email, 28/11/2019r – phone/email	-	-
Woronora Plateau Gundungara Elders Council	12/11/2019 – email, 28/11/2019r – phone/email	-	-
Duncan Falk Consultancy	12/11/2019 – email, 28/11/2019r – phone/email	29/11/2019 - email	Duncan Falk of Duncan Falk Consulting commented on the 30 November 2019. Duncan supported the recommendations for Chelsea Gardens Locale 1 and Chelsea Gardens Locale 3; however noted two concerns with recommendations for Chelsea Garden 2. He noted that the wording of the recommendations

Organisation contacted	Date and type of contact	Date and type of response	Response details
			<p>did not give a sense of certainty that activity that would impact the site will not be conducted within the area.</p> <p>Duncan suggested that their needed to be “written confirmation from the developer that the site will not be impacted at all and a management plan including the implementation of fencing to cordon the area off during development is put in place.” He also suggested salvage of the site be conducted as impacts to Chelsea Gardens Locale 2 were inevitable despite the recommendations, noting that “Realistically with the amount of earth moving machines and activity on the site during the different phases of development the probability of an impact occurring is high, and the unless the developer is willing to induct every single person who is to work on the site about the cultural sensitivity and nature of the PAD it would be wise to conduct a salvage at the earliest convenience.”</p> <p>Biosis responded to Duncan’s concerns in an email on the 3 December 2019. Biosis noted they would include his response within the ACHA and updated the report recommendations to include the suggested measures including fencing of the proposed conservation area in Chelsea Gardens Locale 2, a site induction for construction workers and archaeological salvage if works will result in future impacts to the conservation area of Chelsea Gardens Locale 2. Discussions with the Client indicated that they will not be undertaking works in the proposed conservation area.</p>
Yurrandaali	12/11/2019 –	-	-

Organisation contacted	Date and type of contact	Date and type of response	Response details
	email, 28/11/2019r – phone/email		
Yulay Cultural Services	12/11/2019 – email, 28/11/2019r – phone/email	-	-
Barraby Cultural Services	12/11/2019 – email, 28/11/2019r – phone/email	-	-

Appendix 2 Stage 1: Notification of project proposal and registration of interest

Mathew Smith

From: Rose O'Sullivan <Rose.OSullivan@environment.nsw.gov.au>
Sent: Tuesday, 11 September 2018 12:13 PM
To: Mathew Smith
Subject: OEH Response - Stakeholder Information Request - 141 Yarra Road Moss Vale - Biosis - Aoyoan International.pdf
Attachments: OEH Response - Stakeholder Information Request - 141 Yarra Road Moss Vale - Biosis - Aoyoan International.pdf.PDF

Hi Mat

Thanks for your email about the above, and time on the phone last week. Please find our response attached.

Regards
Rose



Rose O'Sullivan
Archaeologist (Illawarra)
South East Branch
Conservation and Regional
Delivery Division

84 Crown Street, Wollongong 2520
PO Box 513 Wollongong NSW 2520
T 02 4224 4177
M 0429 152 180

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If you are not the intended recipient, please notify the sender and then delete it immediately.

Any views expressed in this email are those of the individual sender except where the sender expressly and with authority states them to be the views of the NSW Office of Environment and Heritage.

PLEASE CONSIDER THE ENVIRONMENT BEFORE PRINTING THIS EMAIL

Mathew Smith

From: Mathew Smith
Sent: Thursday, 30 August 2018 9:42 AM
To: 'enquiry.southeast@lls.nsw.gov.au'
Subject: 28011 Moss Vale ACHA Stage 1 consultation
Attachments: 28011.NotificationtoAgencies.FIN01.20180829.pdf

Hi,

Please find attached stage 1 consultation for 28011 Moss Vale project. If you could please provide contact details for any Aboriginal people or organisations of which you are aware it would be greatly appreciated.

Kind regards,
Mat

Mathew Smith
Archaeologist
M: 0409 991 176
D: (02) 4201 1090
E: msmith@biosis.com.au



Leaders in Ecology and Heritage Consulting

The information transmitted including attachments is intended only for the person or entity to which it is addressed and may contain copyright material, or information that is confidential or is exempt from disclosure by law. Any review, retransmission, dissemination or other use of, or taking of any action in reliance upon this information by persons or entities other than the intended recipient is strictly prohibited. If you received this in error, please contact the sender and delete the material from your computer. The views expressed in this email are those of the sender except where the sender expressly and with authority states them to be the views of Biosis Pty Ltd. Biosis Pty Ltd does not represent that this email is free of errors, viruses or interference. When using email to communicate with Biosis Pty Ltd, access to that information by Biosis Pty Ltd personnel is strictly limited and controlled.

Mathew Smith

From: Mathew Smith
Sent: Thursday, 30 August 2018 9:35 AM
To: 'melissa.wiya@wsc.nsw.gov.au'
Subject: 28011 Moss Vale ACHA stage 1 consultation
Attachments: 28011.NotificationtoAgencies.FIN01.20180829.pdf

Hi Melissa,

Thanks for talking to me on the phone. Please find attached stage 1 consultation for 28011 Moss Vale project. If you could please provide contact details for any Aboriginal people or organisations of which you are aware it would be greatly appreciated.

Kind regards,
Mathew

Mathew Smith

Archaeologist

M: 0409 991 176

D: (02) 4201 1090

E: msmith@biosis.com.au



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Mathew Smith

From: Mathew Smith
Sent: Thursday, 30 August 2018 9:50 AM
To: 'adminofficer@oralra.nsw.gov.au'
Subject: 28011 Moss Vale ACHA Stage 1 consultation
Attachments: 28011.NotificationtoAgencies.FIN01.20180829.pdf

Hi,

Please find attached stage 1 consultation for 28011 Moss Vale project. If you could please provide contact details for any Aboriginal people or organisations of which you are aware it would be greatly appreciated.

Kind regards,
Mat

Mathew Smith

Archaeologist

M: 0409 991 176

D: (02) 4201 1090

E: msmith@biosis.com.au



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Mathew Smith

From: Mathew Smith
Sent: Thursday, 30 August 2018 9:24 AM
To: 'nswenquiries@nntt.gov.au'
Subject: 28011 Moss Vale Stage 1 consultation
Attachments: 28011.NotificationtoAgencies.FIN01.2018029.pdf

Hi,

Please find attached stage 1 consultation for 28011 Moss Vale project. If you could please provide contact details for any Aboriginal people or organisations of which you are aware it would be greatly appreciated.

Kind regards,
Mat

Mathew Smith
Archaeologist
M: 0409 991 176
D: (02) 4201 1090
E: msmith@biosis.com.au



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Mathew Smith

From: Mathew Smith
Sent: Thursday, 30 August 2018 9:25 AM
To: 'information@ntscorp.com.au'
Subject: 28011 Moss Vale Stage 1 consultation
Attachments: 28011.NotificationtoAgencies.FIN01.20180829.pdf

Hi,

Please find attached stage 1 consultation for 28011 Moss Vale project. If you could please provide contact details for any Aboriginal people or organisations of which you are aware it would be greatly appreciated.

Kind regards,
Mat

Mathew Smith
Archaeologist
M: 0409 991 176
D: (02) 4201 1090
E: msmith@biosis.com.au



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Mathew Smith

From: Mathew Smith
Sent: Thursday, 30 August 2018 9:44 AM
To: 'Paul Knight'
Subject: 28011 Moss Vale ACHA stage 1 consultation
Attachments: 28011.NotificationtoAgencies.FIN01.20180829.pdf

Hi Paul,

Please find attached stage 1 consultation for 28011 Moss Vale project. If you could please provide contact details for any Aboriginal people or organisations of which you are aware it would be greatly appreciated.

Kind regards,
Mat

Mathew Smith

Archaeologist

M: 0409 991 176

D: (02) 4201 1090

E: msmith@biosis.com.au



Leaders in Ecology and Heritage Consulting

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Positions Vacant

GROUNDSMAN
Mt Broughton Golf & Country Club require 3 Casual groundsman, with possibility of becoming a full time position.
Contact: manager@mtbroughton.com.au alternatively phone 0409 990 837



Wollondilly Shire Council

Recently declared a 'Fit for the Future' Council, you will have access to excellent employment conditions, family friendly arrangements and ongoing career development opportunities.

Project Delivery Officer – Civil Works

- Permanent Full Time Position
- Attractive Remuneration for outstanding applicants.
- 35 hour week, with Flex Time system
- 9.5% Superannuation
- Health and Wellbeing Programs
- Ongoing learning and development opportunities

Applications for this position close 5pm Friday 14 September 2018.
See our webpage for more information on how to apply.

Menangle St, Picton NSW
wollondilly.nsw.gov.au

Positions Vacant

Full Time Junior Trainee - Childcare
We are looking for motivated, reliable, well presented person who would like a career in childcare and be able to complete a Certificate III or Diploma through TAFE whilst working fulltime in the centre.
Please email your Resume to: belinda@littlepeoples.com.au

Child Care - Full Time Diploma Qualified Educator
Highly Regarded Centre in Bowral
We are looking for an experienced and dedicated educator to join our friendly and professional team. Must have sound knowledge of and demonstrate high quality practice in line with the NQF, EYLF, be a reliable and well-presented team player. Have current WWCC, First Aid. Please email your resume to: belinda@littlepeoples.com.au

Work Wanted

CARPENTER
Decks, Pergolas
No job too small!!
25 Years Experience.
Lic: 198202C
0421 673 857

Lawn Mowing
• Gardening
• Hedge Trimming
• Landscaping
• Honest & reliable
• Fully Insured
0417-699-889

Work Wanted

PLASTER REPAIRS
Small job specialist!!
0473-882-626

PROMOTE YOUR BRAND
ADD A LOGO TO YOUR AD
Fairfax Media

GARDENER
Hedging, Pruning, Mowing, Mulching, Pressure cleaning, Irrigation, Waste Removal,
0477-231-166

HARRY THE HOUSEWASHER
LP Gutters, Eaves, Walls, windows, HP Tennis Courts, Paths, Driveways.
John Leah
0419 297 021

HOME MAINTENANCE
Lawns, Gardens, Gutters, Painting, Windows, Handyman Jobs.
0413 188 396

HOUSEKEEPER CLEANER AVAILABLE
Experienced in all aspects of household duties including washing and ironing.
HONEST & RELIABLE
Excellent references available on request.
Reg. ABN holder.
Ph: 0428 401 181
Minimum 4 hours. No Rental Move In or Move Out Cleans. No one-off cleans!

Public Notices

Aoyuan International
NOTIFICATION AND REGISTRATION OF ABORIGINAL INTERESTS
Aoyuan International are preparing a development application to Wingecarribee Shire Council for a proposed residential development at Lot 3 DP 706194, and Lot 12 DP 866036, Moss Vale, NSW.
An Aboriginal Cultural Heritage Assessment will be undertaken which will support a possible application for an Aboriginal Heritage Impact Permit (AHIP) and possible sub-surface investigations.
Biosis Pty Ltd invites Aboriginal people who hold cultural knowledge in determining the significance of Aboriginal object(s) and places in the vicinity of the above area to register their interest in a process of community consultation.
The purpose of the Aboriginal community consultation is to provide sufficient information for the assessment of Aboriginal cultural heritage values, to inform the Aboriginal Cultural Heritage Assessment and to assist the Chief Executive of OEH in his or her consideration and determination of the application. The project will be undertaken in accordance with the National Parks and Wildlife Act 1974.
For more information please contact:
Aoyuan Group
Aoyuan.au@aoyuangroup.com
To register in writing please contact:
Mathew Smith
Biosis Pty Ltd
8 Tate Street, Wollongong 2500
msmith@biosis.com.au
02 4201 1064
Please note that the name of each group that registers for consultation on this project will be provided to OEH and the LALC unless the group specifies that they do not want their details released.
REGISTRATIONS MUST BE RECEIVED BEFORE 4.00pm, 13 September 2018

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MARILYN Mature, Busty, Blonde, Aussie.
0481-201-822, No txts.
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Forestry Corporation
Seasonal Staff Required
Moss Vale, NSW
Forestry Corporation is currently looking for seasonal staff for the upcoming fire season to fill a range of positions in the Tumut Management Area. Successful applicants will work within a team on fire mitigation and forest management activities as well as hazard reduction burning and wildfire suppression operations. Employment is on a seasonal basis and workloads will vary depending on bushfire conditions. You will be required to work extended hours/shift/days under physically testing conditions.
The successful candidate will possess:
• Current drivers licence (truck drivers licence desirable)
• Physical fitness (must be able to pass medical examination and various functional/fitness tests)
• Ability to work within a team
• A high regard for safety
Desirable skills are ability to operate fire tanker or heavy plant and national firefighting competencies specifically for bush/forest firefighter or higher and recent bush/forest fire fighting experience. Bush firefighting experience is **not** mandatory.
For more information about this role or to apply for this position visit: iworkfor.nsw.gov.au or please call Tom Bagnell on 0409 071 210.
I Work for NSW Reference: 00006ELN
Applications must be received by **28th September 2018.**

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*Excludes some categories. Conditions apply.
Fairfax Media

Mathew Smith

From: Rose O'Sullivan <Rose.OSullivan@environment.nsw.gov.au>
Sent: Monday, 13 November 2017 2:47 PM
To: Mathew Smith
Subject: OEH Response - Moss Vale Rd South - Stakeholder Information Request - Biosis.pdf
Attachments: OEH Response - Moss Vale Rd South - Stakeholder Information Request - Biosis.pdf.PDF

Hi Mathew

Thanks for your email and apologies for the slight delay. Please see our response attached.

Regards
Rose

Rose O'Sullivan
Archaeologist, Planning (Illawarra)
South East Region
Regional Operations Division
Office of Environment and Heritage
Level 3, 84 Crown Street, Wollongong, NSW, 2500
PO Box 513, Wollongong, NSW, 2520
T: 02 4224 4177
F: 02 4224 4199
W: www.environment.nsw.gov.au

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If you are not the intended recipient, please notify the sender and then delete it immediately.

Any views expressed in this email are those of the individual sender except where the sender expressly and with authority states them to be the views of the NSW Office of Environment and Heritage.

PLEASE CONSIDER THE ENVIRONMENT BEFORE PRINTING THIS EMAIL

Mathew Smith

From: Melissa Wiya <Melissa.Wiya@wsc.nsw.gov.au>
Sent: Monday, 3 September 2018 8:40 AM
To: Mathew Smith
Subject: RE: 28011 Moss Vale ACHA stage 1 consultation
Attachments: Aboriginal Stakeholder List 2017 Updated.pdf

Hi Mathew,
Please find attached Wingecarribee Shire Council's registered stakeholders list.

Kind Regards,

Mel

Melissa Wiya Aboriginal Community Development Officer

P/T 8.30am – 4.00pm Monday, Tuesday, Wednesday & Thursday

[Wingecarribee Shire Council](#)

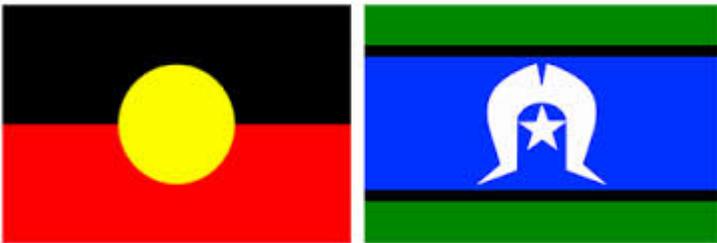
e. Melissa.Wiya@wsc.nsw.gov.au

t. **(02) 4868 0856 m. 0447 384 277**

Civic Centre, 68 Elizabeth St. Moss Vale, NSW 2577 | PO Box 141 Moss Vale NSW 2577

www.wsc.nsw.gov.au

I acknowledge and pay respect to all Aboriginal Elders past and present as the Traditional custodians of this land; I also acknowledge our young leaders who are the Elders of today, tomorrow and our future.



From: Mathew Smith [mailto:MSmith@biosis.com.au]
Sent: Thursday, 30 August 2018 9:35 AM
To: Melissa Wiya
Subject: 28011 Moss Vale ACHA stage 1 consultation

Hi Melissa,

Thanks for talking to me on the phone. Please find attached stage 1 consultation for 28011 Moss Vale project. If you could please provide contact details for any Aboriginal people or organisations of which you are aware it would be greatly appreciated.

Kind regards,

Mathew

Mathew Smith

Archaeologist

M: 0409 991 176

D: (02) 4201 1090

E: msmith@biosis.com.au



Leaders in Ecology and Heritage Consulting

The information transmitted including attachments is intended only for the person or entity to which it is addressed and may contain copyright material, or information that is confidential or is exempt from disclosure by law. Any review, retransmission, dissemination or other use of, or taking of any action in reliance upon this information by persons or entities other than the intended recipient is strictly prohibited. If you received this in error, please contact the sender and delete the material from your computer. The views expressed in this email are those of the sender except where the sender expressly and with authority states them to be the views of Biosis Pty Ltd. Biosis Pty Ltd does not represent that this email is free of errors, viruses or interference. When using email to communicate with Biosis Pty Ltd, access to that information by Biosis Pty Ltd personnel is strictly limited and controlled.

Disclaimer: This message is intended for the addressee named and may contain confidential information. If you are not the intended recipient, please notify the sender and delete the message. Views expressed in this message are those of the individual sender and are not necessarily the views of Wingecarribee Shire Council. This email may be made available to third parties in accordance with the Government Information (Public Access) Act 2009.

Mathew Smith

From: Geospatial Search Requests <GeospatialSearch@NNTT.gov.au>
Sent: Friday, 31 August 2018 3:08 PM
To: Mathew Smith
Subject: RE: SR4782 - 28011 Request for native title search - SR4782
Attachments: 20180831_SR4782_NSW_Wingecarribee_Shire_Council_LGA_Overlap_Report.xlsx

UNCLASSIFIED

Native title search – NSW Parcels –within Wingecarribee Shire Council LGA

Your ref: 28011 - Our ref: SR4782

Change of e-mail address for Geospatial Searches

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

Dear Mathew Smith,

Thank you for your search request received on 30 August 2018 in relation to the above area, please find your results attached.

Please note: Where the area identified to be searched is indistinct, generalised, or is for a freehold parcel, the results provided may relate to the Local Government Area (LGA) or Local Aboriginal Land Council (ALC).

Search Results

The results provided are based on the information you supplied and are derived from a search of the following Tribunal databases:

- Schedule of Native Title Determination Applications
- Register of Native Title Claims
- Native Title Determinations
- Register of Indigenous Land Use Agreements
- Notified Indigenous Land Use Agreements

For more information about the Tribunal's registers or to search the registers yourself and obtain copies of relevant register extracts, please visit our [website](#).

Please note: There may be a delay between a native title determination application being lodged in the Federal Court and its transfer to the Tribunal. As a result, some native title determination applications recently filed with the Federal Court may not appear on the Tribunal's databases.

The search results are based on analysis against external boundaries of applications only. Native title applications commonly contain exclusions clauses which remove areas from within the external boundary. To determine whether the areas described are in fact subject to claim, you need to refer to the "Area covered by claim" section of the relevant Register Extract or Schedule Extract and any maps attached.

Search results and the existence of native title

Please note that the enclosed information from the Register of Native Title Claims and/or the Schedule of Applications is **not** confirmation of the existence of native title in this area. This cannot be confirmed until the Federal Court makes a determination that native title does or does not exist in relation to the area. Such determinations are registered on the National Native Title Register.

The Tribunal accepts no liability for reliance placed on enclosed information

The enclosed information has been provided in good faith. Use of this information is at your sole risk. The National Native Title Tribunal makes no representation, either express or implied, as to the accuracy or suitability of the information enclosed for any particular purpose and accepts no liability for use of the information or reliance placed on it.

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

Regards,

Geospatial Searches

National Native Title Tribunal | Perth

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

Shared country, shared future

From: Mathew Smith

Sent: Thursday, 30 August 2018 3:04 PM

To: Geospatial Search Requests

Subject: SR4782 - 28011 Request for native title search

Hi,

Please find attached native title search form.

Kind regards,
Mathew

Mathew Smith

Archaeologist

M: 0409 991 176

D: (02) 4201 1090

E: msmith@biosis.com.au



Leaders in Ecology and Heritage Consulting

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12 September 2018

Karlia Lea Bond

11 Jeffery Place

Moruya NSW 2537

Dear Karlia Lea,

RE: Lot 3 DP 706194, and Lot 12 DP 866036, Moss Vale Aboriginal Cultural Heritage Assessment – Notification to Agencies

Our Ref: Matter 28011

Aoyuan International are preparing a development application to Wingecarribee Shire Council for a proposed residential development at Lot 3 DP 706194, and Lot 12 DP 866036, Moss Vale, NSW.

Biosis have been engaged by Aoyuan International to undertake an Aboriginal Cultural Heritage Assessment (ACHA) including test excavations under *the Code of Practice for archaeological investigation of Aboriginal Objects in NSW* (DECCW 2010) for the project.

In accordance with the Office of Environment and Heritage's *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010) (consultation requirements) individuals or groups are invited to register their interest in writing to participate in the ACHA and consultation process for the proposal.

Biosis Pty Ltd is assisting with consultation with the Aboriginal community in accordance with the consultation requirements. The purpose of the Aboriginal community consultation will be to provide sufficient information for the assessment of Aboriginal cultural heritage values as part of a potential application for an Aboriginal Heritage Impact Permit for the site.

Biosis wishes to identify Aboriginal people who may have an interest in the proposed study area and hold cultural knowledge relevant to determining the cultural significance of Aboriginal objects and/or Places in the Canley Vale area. If you would like to register your interest to be consulted for this assessment, please respond by **5pm on 26 September 2018**.

Please note that the name of each group that registers for consultation on this project will be provided to OEH and the LALC unless the group specifies that they do not want their details released.

In accordance with the consultation requirements, please note that the relevant client contact for this project is:

Aoyuan International

Biosis Pty Ltd
Wollongong Resource Group

8 Tate Street
Wollongong NSW 2500

Phone: 02 4201 1090 ACN 006 175 097
ABN 65 006 175 097 Email: wollongong@biosis.com.au

biosis.com.au

Suite 17.05, Level 17, 227 Elizabeth Street
Sydney NSW 2000
Aoyuan.au@aoyuangroup.com

All correspondence regarding provision of names and contact details of Aboriginal people who may hold cultural knowledge relevant to the Project Site should be provided in writing to:

Mathew Smith
Biosis Pty Ltd
8 Tate Street
Wollongong NSW 2500
msmith@biosis.com.au

If you have any queries regarding the Project please don't hesitate to contact me on the details below.

Yours sincerely,

A handwritten signature in blue ink, appearing to read "M. Smith".

Mathew Smith
Archaeologist
02 4201 1064
04 0999 1176
msmith@biosis.com.au



12 September 2018

Lee Field

6 Macgibbon Parade

Old Errowal Bay NSW 2540

Dear Lee,

RE: Lot 3 DP 706194, and Lot 12 DP 866036, Moss Vale Aboriginal Cultural Heritage Assessment – Notification to Agencies

Our Ref: Matter 28011

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Yours sincerely,

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Mathew Smith
Archaeologist
02 4201 1064
04 0999 1176
msmith@biosis.com.au



12 September 2018

Kim Moran

Dear Kim,

RE: Lot 3 DP 706194, and Lot 12 DP 866036, Moss Vale Aboriginal Cultural Heritage Assessment – Notification to Agencies

Our Ref: Matter 28011

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Yours sincerely,

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Mathew Smith
Archaeologist
02 4201 1064
04 0999 1176
msmith@biosis.com.au



12 September 2018

Seli Storer

Dear Seli,

RE: Lot 3 DP 706194, and Lot 12 DP 866036, Moss Vale Aboriginal Cultural Heritage Assessment – Notification to Agencies

Our Ref: Matter 28011

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Aoyuan.au@aoyuangroup.com

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Phone: 02 4201 1090 ACN 006 175 097
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Mathew Smith
Biosis Pty Ltd
8 Tate Street
Wollongong NSW 2500
msmith@biosis.com.au

If you have any queries regarding the Project please don't hesitate to contact me on the details below.

Yours sincerely,

A handwritten signature in blue ink, appearing to read 'M. Smith', is placed over a light blue rectangular background.

Mathew Smith
Archaeologist
02 4201 1064
04 0999 1176
msmith@biosis.com.au



12 September 2018

Simalene Carriage

Dear Simalene,

RE: Lot 3 DP 706194, and Lot 12 DP 866036, Moss Vale Aboriginal Cultural Heritage Assessment – Notification to Agencies

Our Ref: Matter 28011

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Aoyuan.au@aoyuangroup.com

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Wollongong NSW 2500
msmith@biosis.com.au

If you have any queries regarding the Project please don't hesitate to contact me on the details below.

Yours sincerely,

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Mathew Smith
Archaeologist
02 4201 1064
04 0999 1176
msmith@biosis.com.au



12 September 2018

Robert Brown

Dear Robert,

RE: Lot 3 DP 706194, and Lot 12 DP 866036, Moss Vale Aboriginal Cultural Heritage Assessment – Notification to Agencies

Our Ref: Matter 28011

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Yours sincerely,

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Mathew Smith
Archaeologist
02 4201 1064
04 0999 1176
msmith@biosis.com.au



12 September 2018

Corey Smith

Dear Corey,

RE: Lot 3 DP 706194, and Lot 12 DP 866036, Moss Vale Aboriginal Cultural Heritage Assessment – Notification to Agencies

Our Ref: Matter 28011

Aoyuan International are preparing a development application to Wingecarribee Shire Council for a proposed residential development at Lot 3 DP 706194, and Lot 12 DP 866036, Moss Vale, NSW.

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Sydney NSW 2000
Aoyuan.au@aoyuangroup.com

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8 Tate Street
Wollongong NSW 2500

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Yours sincerely,

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Mathew Smith
Archaeologist
02 4201 1064
04 0999 1176
msmith@biosis.com.au



12 September 2018

Anna O'Hara

PO Box 2006

Bendelong NSW 2539

Dear Anna ,

RE: Lot 3 DP 706194, and Lot 12 DP 866036, Moss Vale Aboriginal Cultural Heritage Assessment – Notification to Agencies

Our Ref: Matter 28011

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Suite 17.05, Level 17, 227 Elizabeth Street

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Wollongong Resource Group

8 Tate Street
Wollongong NSW 2500

Phone: 02 4201 1090 ACN 006 175 097
ABN 65 006 175 097 Email: wollongong@biosis.com.au

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Yours sincerely,

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Mathew Smith
Archaeologist
02 4201 1064
04 0999 1176
msmith@biosis.com.au



12 September 2018

Andrew Bond

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12 September 2018

Duncan Falk

34 Robina Drive

Bowral NSW 2576

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12 September 2018

Gordon Campbell

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12 September 2018

Raymond Ingrey

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12 September 2018

Basil Smith

66 Grantham Road

Batehaven NSW 2536

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12 September 2018

David Bell

67 Dickens Road

Ambervale NSW 2560

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12 September 2018

Pimmy Johnson Bell

67 Dickens Road

Ambervale NSW 2560

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12 September 2018

Peter Foster

4 Tuppal Way

Airds NSW 2560

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12 September 2018
Teangi Mereki Foster
1/6 Central Avenue
Oak Flats NSW 2529

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Archaeologist
02 4201 1064
04 0999 1176
msmith@biosis.com.au



12 September 2018

Larry Hoskins

2/3 Colville Place

Rosemeadow NSW 2560

Dear Larry,

RE: Lot 3 DP 706194, and Lot 12 DP 866036, Moss Vale Aboriginal Cultural Heritage Assessment – Notification to Agencies

Our Ref: Matter 28011

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8 Tate Street
Wollongong NSW 2500

Phone: 02 4201 1090 ACN 006 175 097
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02 4201 1064
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12 September 2018

Christopher Payne

9/15-22 Burns Road

Leaumeah NSW 2560

Dear Christopher,

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12 September 2018

Sam Wickman

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12 September 2018

Kylie Ann Bell

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12 September 2018

Darlene Hoskins-McKenzie

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12 September 2018

Richard Campbell

2 Minda Crescent

Oakflats NSW 2529

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12 September 2018

Paul Knight

3 Ellen Street

Wollongong NSW 2500

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Leanne Tungai

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12 September 2018

Jodi Anne Stewart

2/10 Burnett Ave

Gerringong NSW 2534

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Karrial Johnson

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12 September 2018

Aaron Broad

1 Waratah Avenue

Albion Park Rail NSW 2527

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Mathew Smith
Archaeologist
02 4201 1064
04 0999 1176
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12 September 2018

Suzannah McKenzie

Dear Suzannah,

RE: Lot 3 DP 706194, and Lot 12 DP 866036, Moss Vale Aboriginal Cultural Heritage Assessment – Notification to Agencies

Our Ref: Matter 28011

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12 September 2018

Roxanne Smith

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12 September 2018

Mark Henry

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12 September 2018

Levi McKenzie-Kirkbright

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12 September 2018

Newton Carriage

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12 September 2018

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12 September 2018

Pemulwuy Johnson

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Rebecca Ede

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12 September 2018

Leonard Wright
40 Tuggerah Circuit
Flinders NSW 2529

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12 September 2018

Troy Tungai

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12 September 2018

Hika Te Kowhai

15 Renee Crescent

Moruya Heads NSW 2537

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Aoyuan.au@aoyuangroup.com

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Yours sincerely,

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Mathew Smith
Archaeologist
02 4201 1064
04 0999 1176
msmith@biosis.com.au



12 September 2018

Ronald Stewart

Dear Ronald,

RE: Lot 3 DP 706194, and Lot 12 DP 866036, Moss Vale Aboriginal Cultural Heritage Assessment – Notification to Agencies

Our Ref: Matter 28011

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12 September 2018

Nathanial Kennedy

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12 September 2018

Hayley Ball

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12 September 2018

Wandai Kirkbright

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12 September 2018

Kayla Williamson

11 Garnet Grove

Flinders NSW 2529

Dear Kayla,

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Archaeologist
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12 September 2018

Paul Cummins

11 Garnet Grove

Flinders NSW 2529

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Archaeologist
02 4201 1064
04 0999 1176
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12 September 2018
Lee-Roy James Boota
54 Blackwood Street
Gerringong NSW 2534

Dear Lee-Roy,

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12 September 2018

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12 September 2018

Gary Caines

28 Gowan Brae Avenue

Mt Ousley NSW 2519

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12 September 2018

James Davis

2 Poplar Avenue

Unanderra NSW 2526

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12 September 2018

Darryl Caines

11/17-19 Grove Circuit

Lake Illawarra

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Yours sincerely,

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Mathew Smith
Archaeologist
02 4201 1064
04 0999 1176
msmith@biosis.com.au



12 September 2018

Raymond Garbutt

Dear Raymond,

RE: Lot 3 DP 706194, and Lot 12 DP 866036, Moss Vale Aboriginal Cultural Heritage Assessment – Notification to Agencies

Our Ref: Matter 28011

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12 September 2018

Ryan Johnson

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Archaeologist
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12 September 2018

Glenda Chlaker

55 Nightingale Road

Pheasants Nest NSW 2574

Dear Glenda,

RE: Lot 3 DP 706194, and Lot 12 DP 866036, Moss Vale Aboriginal Cultural Heritage Assessment – Notification to Agencies

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Mathew Smith
Archaeologist
02 4201 1064
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12 September 2018

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12 September 2018

Aunty Elaine Sturgeon

Dear Aunty Elaine,

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12 September 2018

Aunty Sharon Brown

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12 September 2018

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12 September 2018

Wendy Lotter

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12 September 2018

Sandra Brooks

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Elizabeth Taylor

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12 September 2018

Edward Moran

4 Crystal Place

South West Rocks NSW 2431

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Please note that the name of each group that registers for consultation on this project will be provided to OEH and the LALC unless the group specifies that they do not want their details released.

In accordance with the consultation requirements, please note that the relevant client contact for this project is:

Aoyuan International
Suite 17.05, Level 17, 227 Elizabeth Street

Biosis Pty Ltd
Wollongong Resource Group

8 Tate Street
Wollongong NSW 2500

Phone: 02 4201 1090 ACN 006 175 097
ABN 65 006 175 097 Email: wollongong@biosis.com.au

biosis.com.au

Sydney NSW 2000
Aoyuan.au@aoyuangroup.com

All correspondence regarding provision of names and contact details of Aboriginal people who may hold cultural knowledge relevant to the Project Site should be provided in writing to:

Mathew Smith
Biosis Pty Ltd
8 Tate Street
Wollongong NSW 2500
msmith@biosis.com.au

If you have any queries regarding the Project please don't hesitate to contact me on the details below.

Yours sincerely,

A handwritten signature in blue ink, appearing to read "M. Smith", is shown within a light blue rectangular box.

Mathew Smith
Archaeologist
02 4201 1064
04 0999 1176
msmith@biosis.com.au



12 September 2018

Aunty Gwen Brown

86 Hertford Street

Berkeley NSW 2506

Dear Aunty Gwen ,

RE: Lot 3 DP 706194, and Lot 12 DP 866036, Moss Vale Aboriginal Cultural Heritage Assessment – Notification to Agencies

Our Ref: Matter 28011

Aoyuan International are preparing a development application to Wingecarribee Shire Council for a proposed residential development at Lot 3 DP 706194, and Lot 12 DP 866036, Moss Vale, NSW.

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ABN 65 006 175 097 Email: wollongong@biosis.com.au

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Mathew Smith
Archaeologist
02 4201 1064
04 0999 1176
msmith@biosis.com.au



12 September 2018

Adrian Shafer

PO Box 489 High street

Penrith 2750

Dear Adrian,

RE: Lot 3 DP 706194, and Lot 12 DP 866036, Moss Vale Aboriginal Cultural Heritage Assessment – Notification to Agencies

Our Ref: Matter 28011

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Mathew Smith
Archaeologist
02 4201 1064
04 0999 1176
msmith@biosis.com.au

Mathew Smith

From: Kayla Williamson <kayla_87@hotmail.com>
Sent: Monday, 17 September 2018 2:46 PM
To: Mathew Smith
Subject: Re: 28011 Moss Vale Stage 1 consultation

Hi Matt

Woronora Plateau Gundangara Elders Council Would like to register for consultation for 28011 Moss Vale stage 1.

Please send all correspondence to:

11 Garnett Grove
FLINDERS NSW 2529

Or

Kayla_87@hotmail.com

Regards
Kayla Williamson

From: Mathew Smith
Sent: Wednesday, September 12, 2018 3:09 pm
To: 'kayla_87@hotmail.com'
Subject: 28011 Moss Vale Stage 1 consultation
Hi,

Aoyuan International are preparing a development application to Wingecarribee Shire Council for a proposed residential development at Lot 3 DP 706194, and Lot 12 DP 866036, Moss Vale, NSW.
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Kind regards,
Mathew

Mathew Smith

Archaeologist

M:0409 991 176

D:(02) 4201 1090

E:msmith@biosis.com.au



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Mathew Smith

From: James Davis <jvdcorp@hotmail.com>
Sent: Friday, 14 September 2018 2:20 PM
To: Mathew Smith
Subject: Re: 28011 Moss Vale Stage 1 consultation

Hi Mathew,
could you please register me for the ACHA in Moss Vale (Canley Vale)
Talk soon

Thanks

James Davis
Wodi Wodi Traditional Owner

From: Mathew Smith
Sent: Wednesday, 12 September 2018 3:09 PM
To: 'jvdcorp@hotmail.com'
Subject: 28011 Moss Vale Stage 1 consultation
Hi,

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their details released.

Kind regards,
Mathew

Mathew Smith

Archaeologist

M: 0409 991 176

D: (02) 4201 1090

E: msmith@biosis.com.au



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Mathew Smith

From: Glenda Chalker <kgchalker@bigpond.com>
Sent: Friday, 14 September 2018 2:09 PM
To: Mathew Smith
Subject: RE: 28011 Moss Vale Stage 1 consultation

Dear Matthew,
Please take this as Cubbitch Barta Native Title Claimants interest to register for this proposed project
Glenda Chalker

From: Mathew Smith [mailto:MSmith@biosis.com.au]
Sent: Wednesday, 12 September 2018 3:09 PM
To: 'kgchalker@bigpond.com'
Subject: 28011 Moss Vale Stage 1 consultation

Hi,

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Mathew

Mathew Smith

Archaeologist

M: 0409 991 176

D: (02) 4201 1090

E: msmith@biosis.com.au



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Mathew Smith

From: Troy Tungai <Troytungai72@outlook.com>
Sent: Wednesday, 12 September 2018 8:44 PM
To: Mathew Smith
Subject: Re: 28011 Moss Vale Stage 1 consultation

Hi mathew thanks again for your email

To be honest with u i dont know much about this area but i still would like to put my exspression of instrest in for this project as i would like to be involved in this project

Thanks troy tungai

Sent from Outlook

From: Mathew Smith
Sent: Wednesday, 12 September 2018 3:09:16 PM
To: 'Troytungai72@outlook.com'
Subject: 28011 Moss Vale Stage 1 consultation
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Mathew

Mathew Smith

Archaeologist

M: 0409 991 176

D: (02) 4201 1090

E: msmith@biosis.com.au



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Mathew Smith

From: Richard Campbell <Richardcampbell123@outlook.com>
Sent: Wednesday, 12 September 2018 3:34 PM
To: Mathew Smith
Subject: Re: 28011 Moss Vale Stage 1 consultation

Put me down for sites work Matt please

Kind regards

Richard

Sent from my iPad

On 12 Sep 2018, at 3:09 pm, Mathew Smith <MSmith@biosis.com.au> wrote:

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D: (02) 4201 1090

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Mathew Smith

From: Leanne Tungai <leanneacaroltungai@gmail.com>
Sent: Tuesday, 25 September 2018 5:02 PM
To: Mathew Smith
Subject: Re: 28011 Moss Vale Stage 1 consultation

I'd like to be considered in this please

On Fri, 14 Sep 2018 at 10:49 am, Leanne Tungai <leanneacaroltungai@gmail.com> wrote:

Yes, please proceed.

On Wed, 12 Sep 2018 at 3:09 pm, Mathew Smith <MSmith@biosis.com.au> wrote:

Hi,

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Mathew Smith

From: Duncan Falk <DuncanFalk@hotmail.com>
Sent: Thursday, 20 September 2018 10:26 AM
To: Mathew Smith
Subject: Re: 28011 Moss Vale Stage 1 consultation
Attachments: 180920 Biosis Aoyuan Moss Vale registartion.pdf

Hello Mathew,

Please find attached my letter of registration for the said project.

P.S. Were you able to find out the information about invoicing for me?

Regards,

Duncan

Duncan Falk

Manager

Duncan Falk Consultancy



Duncan Falk Consultancy

T +61 406 610 644

duncanfalk@hotmail.com

From: Mathew Smith

Sent: Wednesday, 12 September 2018 3:09:04 PM

To: 'DuncanFalk@hotmail.com'

Subject: 28011 Moss Vale Stage 1 consultation

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Mathew Smith

Archaeologist

M: 0409 991 176

D: (02) 4201 1090

E: msmith@biosis.com.au



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Mathew Smith

From: arika jalomaki <yulayculturalservices@gmail.com>
Sent: Friday, 14 September 2018 2:17 PM
To: Mathew Smith
Subject: Re: ACHA - Lot 3 DP 706194 and Lot 12 DP 866036 Moss Vale
Attachments: EOI- MOSS VALE.docx; Workers Insurance Certificate of Currency.pdf; CGU-Certificate-Of-Currency-4103058.pdf

Dear Mathew,

Yulay Cultural Services would like to register our interest in this project.
Please see our attached letter of registration and current insurances.

Many Thanks
Arika Jalomaki
Yulay Cultural Services

Mathew Smith

From: Bo Field <yurrandaali_cs@hotmail.com>
Sent: Friday, 14 September 2018 2:17 PM
To: Mathew Smith
Subject: Re: ACHA - Lot 3 DP 706194 and Lot 12 DP 866036 Moss Vale
Attachments: EOI- MOSS VALE.docx; PUBLICLIABILITY.pdf; WORKERSCOMP.pdf

Dear Mathew,

Yurrandaali would like to register our interest in this project.

Please see the attached:

Letter of registration

Workers Compensation Certificate

Public Liability

Kind Regards

Bo Field

Sent from [Outlook](#)

Mathew Smith

From: lee field <barrabyculturalservices@gmail.com>
Sent: Friday, 14 September 2018 2:17 PM
To: Mathew Smith
Subject: Re: ACHA - Lot 3 DP 706194 and Lot 12 DP 866036 Moss Vale
Attachments: EOI- Moss Vale.docx; PUBLICLIABILITY.pdf; Workers Insurance Certificate.pdf

Dear Mathew,

Barraby Cultural Services would like to register our interest in this project.
Please see our attached Letter of Registration and copies of our insurances.

Kind Regards
Lee Field
Barraby Cultural Services

12/10/2018

Illawarra Local Aboriginal Land Council
Paul Knight
CEO

Dear Paul,

RE: Aboriginal cultural heritage assessment Moss Vale

Our Ref: Matter 28011

I am writing to advise of the list of Registered Aboriginal Parties (RAPs) who have contacted Biosis and registered in response to the project notification and public notice. As per the requirements of the *Aboriginal cultural heritage consultation requirements for proponents 2010*, please find attached the results of Stage 1 Consultation for the project.

RAPs
James Davis
Illawarra Local Aboriginal Land Council
Woronora Plateau Gundagara Elders Council
Cubbitch barta Native Title Claimants
Gunamaa Dreaming Sites and Surveying
Duncan Falk Consulting
Tungai Tonghi
Leanne Tungai

If you have any queries or need anything extra please don't hesitate to contact me on the details below.

Yours sincerely,



Mathew Smith
Field Archaeologist
msmith@biosis.com.au
0409 991 176
(02) 4201 1064



12 September 2018

Karlia Lea Bond

11 Jeffery Place

Moruya NSW 2537

Dear Karlia Lea,

RE: Lot 3 DP 706194, and Lot 12 DP 866036, Moss Vale Aboriginal Cultural Heritage Assessment – Notification to Agencies

Our Ref: Matter 28011

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Biosis Pty Ltd is assisting with consultation with the Aboriginal community in accordance with the consultation requirements. The purpose of the Aboriginal community consultation will be to provide sufficient information for the assessment of Aboriginal cultural heritage values as part of a potential application for an Aboriginal Heritage Impact Permit for the site.

Biosis wishes to identify Aboriginal people who may have an interest in the proposed study area and hold cultural knowledge relevant to determining the cultural significance of Aboriginal objects and/or Places in the Canley Vale area. If you would like to register your interest to be consulted for this assessment, please respond by **5pm on 26 September 2018**.

Please note that the name of each group that registers for consultation on this project will be provided to OEH and the LALC unless the group specifies that they do not want their details released.

In accordance with the consultation requirements, please note that the relevant client contact for this project is:

Aoyuan International

Biosis Pty Ltd
Wollongong Resource Group

8 Tate Street
Wollongong NSW 2500

Phone: 02 4201 1090 ACN 006 175 097
ABN 65 006 175 097 Email: wollongong@biosis.com.au

biosis.com.au

Suite 17.05, Level 17, 227 Elizabeth Street
Sydney NSW 2000
Aoyuan.au@aoyuangroup.com

All correspondence regarding provision of names and contact details of Aboriginal people who may hold cultural knowledge relevant to the Project Site should be provided in writing to:

Mathew Smith
Biosis Pty Ltd
8 Tate Street
Wollongong NSW 2500
msmith@biosis.com.au

If you have any queries regarding the Project please don't hesitate to contact me on the details below.

Yours sincerely,

A handwritten signature in blue ink, appearing to read "M. Smith".

Mathew Smith
Archaeologist
02 4201 1064
04 0999 1176
msmith@biosis.com.au



12 September 2018

Karlia Lea Bond

11 Jeffery Place

Moruya NSW 2537

Dear Karlia Lea,

RE: Lot 3 DP 706194, and Lot 12 DP 866036, Moss Vale Aboriginal Cultural Heritage Assessment – Notification to Agencies

Our Ref: Matter 28011

Aoyuan International are preparing a development application to Wingecarribee Shire Council for a proposed residential development at Lot 3 DP 706194, and Lot 12 DP 866036, Moss Vale, NSW.

Biosis have been engaged by Aoyuan International to undertake an Aboriginal Cultural Heritage Assessment (ACHA) including test excavations under *the Code of Practice for archaeological investigation of Aboriginal Objects in NSW* (DECCW 2010) for the project.

In accordance with the Office of Environment and Heritage's *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010) (consultation requirements) individuals or groups are invited to register their interest in writing to participate in the ACHA and consultation process for the proposal.

Biosis Pty Ltd is assisting with consultation with the Aboriginal community in accordance with the consultation requirements. The purpose of the Aboriginal community consultation will be to provide sufficient information for the assessment of Aboriginal cultural heritage values as part of a potential application for an Aboriginal Heritage Impact Permit for the site.

Biosis wishes to identify Aboriginal people who may have an interest in the proposed study area and hold cultural knowledge relevant to determining the cultural significance of Aboriginal objects and/or Places in the Canley Vale area. If you would like to register your interest to be consulted for this assessment, please respond by **5pm on 26 September 2018**.

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Yours sincerely,

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Mathew Smith
Archaeologist
02 4201 1064
04 0999 1176
msmith@biosis.com.au

12/10/2018

Office of Environment and Heritage
Rose O'Sullivan
Archaeologist
South East Branch

Dear Rose,

RE: Aboriginal cultural heritage assessment Moss Vale

Our Ref: Matter 28011

I am writing to advise of the list of Registered Aboriginal Parties (RAPs) who have contacted Biosis and registered in response to the project notification and public notice. As per the requirements of the *Aboriginal cultural heritage consultation requirements for proponents 2010*, please find attached the results of Stage 1 Consultation for the project.

RAPs
James Davis
Illawarra Local Aboriginal Land Council
Woronora Plateau Gundangara Elders Council
Cubbitch barta Native Title Claimants
Gunamaa Dreaming Sites and Surveying
Duncan Falk Consulting
Tungai Tonghi
Leanne Tungai

If you have any queries or need anything extra please don't hesitate to contact me on the details below.

Yours sincerely,



Mathew Smith
Field Archaeologist
msmith@biosis.com.au
0409 991 176
(02) 4201 1064



12 September 2018

Karlia Lea Bond

11 Jeffery Place

Moruya NSW 2537

Dear Karlia Lea,

RE: Lot 3 DP 706194, and Lot 12 DP 866036, Moss Vale Aboriginal Cultural Heritage Assessment – Notification to Agencies

Our Ref: Matter 28011

Aoyuan International are preparing a development application to Wingecarribee Shire Council for a proposed residential development at Lot 3 DP 706194, and Lot 12 DP 866036, Moss Vale, NSW.

Biosis have been engaged by Aoyuan International to undertake an Aboriginal Cultural Heritage Assessment (ACHA) including test excavations under *the Code of Practice for archaeological investigation of Aboriginal Objects in NSW* (DECCW 2010) for the project.

In accordance with the Office of Environment and Heritage's *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010) (consultation requirements) individuals or groups are invited to register their interest in writing to participate in the ACHA and consultation process for the proposal.

Biosis Pty Ltd is assisting with consultation with the Aboriginal community in accordance with the consultation requirements. The purpose of the Aboriginal community consultation will be to provide sufficient information for the assessment of Aboriginal cultural heritage values as part of a potential application for an Aboriginal Heritage Impact Permit for the site.

Biosis wishes to identify Aboriginal people who may have an interest in the proposed study area and hold cultural knowledge relevant to determining the cultural significance of Aboriginal objects and/or Places in the Canley Vale area. If you would like to register your interest to be consulted for this assessment, please respond by **5pm on 26 September 2018**.

Please note that the name of each group that registers for consultation on this project will be provided to OEH and the LALC unless the group specifies that they do not want their details released.

In accordance with the consultation requirements, please note that the relevant client contact for this project is:

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Biosis Pty Ltd
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8 Tate Street
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Phone: 02 4201 1090 ACN 006 175 097
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All correspondence regarding provision of names and contact details of Aboriginal people who may hold cultural knowledge relevant to the Project Site should be provided in writing to:

Mathew Smith
Biosis Pty Ltd
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Wollongong NSW 2500
msmith@biosis.com.au

If you have any queries regarding the Project please don't hesitate to contact me on the details below.

Yours sincerely,

A handwritten signature in blue ink, appearing to read "M. Smith".

Mathew Smith
Archaeologist
02 4201 1064
04 0999 1176
msmith@biosis.com.au

12/10/2018

Illawarra Local Aboriginal Land Council
Paul Knight
CEO

Dear Paul,

RE: Aboriginal cultural heritage assessment Moss Vale

Our Ref: Matter 28011

I am writing to advise of the list of Registered Aboriginal Parties (RAPs) who have contacted Biosis and registered in response to the project notification and public notice. As per the requirements of the *Aboriginal cultural heritage consultation requirements for proponents 2010*, please find attached the results of Stage 1 Consultation for the project.

RAPs
James Davis
Illawarra Local Aboriginal Land Council
Woronora Plateau Gundagara Elders Council
Cubbitch barta Native Title Claimants
Gunamaa Dreaming Sites and Surveying
Duncan Falk Consulting
Tungai Tonghi
Leanne Tungai

If you have any queries or need anything extra please don't hesitate to contact me on the details below.

Yours sincerely,



Mathew Smith
Field Archaeologist
msmith@biosis.com.au
0409 991 176
(02) 4201 1064

12/10/2018

Office of Environment and Heritage
Rose O'Sullivan
Archaeologist
South East Branch

Dear Rose,

RE: Aboriginal cultural heritage assessment Moss Vale

Our Ref: Matter 28011

I am writing to advise of the list of Registered Aboriginal Parties (RAPs) who have contacted Biosis and registered in response to the project notification and public notice. As per the requirements of the *Aboriginal cultural heritage consultation requirements for proponents 2010*, please find attached the results of Stage 1 Consultation for the project.

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James Davis
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If you have any queries or need anything extra please don't hesitate to contact me on the details below.

Yours sincerely,



Mathew Smith
Field Archaeologist
msmith@biosis.com.au
0409 991 176
(02) 4201 1064

Appendix 3 Stage 2: Presentation of information about the proposed project

19 October 2018

Guunamaa Dreaming Sites and Surveying

Richard Campbell

2 Minda Crescent

Oakflats NSW 2529

Dear Richard,

RE: Moss Vale Aboriginal Cultural Heritage Assessment - project information

Our Ref: Matter 28011

Thank you for your registration of interest in this project. We are writing to you in order to provide you with the project information and methodology packs for the proposed development at Lot 3 DP 706194 and Lot 12 DP 866036, Moss Vale, NSW. This information has been provided in accordance with the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010a) (consultation requirements).

In this letter you will find the project information pack and project methodology.

The purpose of the methodology document is to provide you with further information on the background of this assessment, as well as the methodology for how it will be conducted, including the test excavations.

Please note that comments on the project methodology pack should be received before **5 pm 16 November 2018**.

As this project will involve test excavations, the purpose of the second letter is to invite your feedback on the proposed project information and methodology packs, and to assist the proponent in the programming of groups for participation in the test excavations which will be carried out within the study area.

If you have any queries regarding the project or the information in this letter, please don't hesitate to contact us.

Yours sincerely,

Mathew Smith



Archaeologist
msmith@biosis.com.au

Project information

The following information has been provided in accordance with the consultation requirements. The aim of this document is to provide registered Aboriginal parties with information about the proposed project and the scope of the Aboriginal archaeology and cultural heritage investigations and assessment.

Study area

The study area is located at Lot 3 DP 706194 and Lot 12 DP 866036, Moss Vale, NSW, within the Wingecarribee Shire Council Local Government Area (LGA), Parish of Bong Bong, and County of Camden.

Project

Aoyuan International are proposing to develop the study area into a number of residential blocks so Biosis Pty Ltd is assisting Aoyuan International with consultation with the Aboriginal community and the Aboriginal Cultural Heritage Assessment. Consultation with the Aboriginal community will follow the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010). The purpose of the Aboriginal community consultation will be to provide sufficient information for the assessment of Aboriginal cultural heritage values and to inform the Aboriginal Cultural Heritage Assessment (ACHA). This will assist with the possible application for an AHIP, and will assist the Office of Environment and Heritage (OEH) in consideration and determination of the AHIP application.

Aboriginal cultural heritage assessment process

The assessment process includes the following steps:

Background research

Background research has been undertaken in order to identify known Aboriginal sites, areas of potential archaeological sensitivity and previous disturbance, and inform the predictive modelling for the assessment area. Background research will be conducted in line with the requirements of the *Code of Practice for the Investigation of Aboriginal Objects in New South Wales* (DECCW 2010) ('the code'). Background research for the project included the following tasks:

- Conduct heritage register searches to identify previously recorded cultural heritage sites in or within the vicinity of the proposed study area. Searches will include the Aboriginal Heritage Information Management System (AHIMS), the National Heritage List, Commonwealth Heritage List, Register of the National Estate, State Heritage Register, Local Environmental Plan and National Trust heritage lists.
- Conduct additional background research in order to recognise any identifiable regional trends in site distribution and location and provide a site prediction model for the study area.
- Undertake a comprehensive survey of the study area, identifying any previously recorded sites (on AHIMS).
- Record and assess sites identified during the survey in compliance with the guidelines issued by the OEH.
- Assess the scientific significance of all identified Aboriginal cultural heritage sites and places;

- Identify impacts to all identified Aboriginal cultural heritage sites and places based on potential ground disturbance from the proposed realignment of the road.
- Make recommendations to minimise or mitigate potential impacts of the proposed realignment upon cultural heritage values within the study area.

Consultation with the Aboriginal community

This task will allow the Aboriginal community the opportunity to participate in decisions regarding the management of their cultural heritage by providing proponents information regarding cultural significance and input into management options.

Consultation with Aboriginal stakeholders under the DECCW 2010 consultation guidelines is being undertaken to assist School Infrastructure NSW by:

- providing relevant information about the cultural significance and values of the Aboriginal object(s) and/or place(s) within the study area.
- influencing the design of the method to assess cultural and scientific significance of Aboriginal objects(s) and/or place(s) within the study area.
- actively contributing to the development of cultural heritage management plan options and recommendations for any Aboriginal object(s) and/or place(s) within the proposed study area.
- commenting on the draft assessment reports before they are submitted by the proponent to the determining authority of the proposed realignment.

Aboriginal community consultation will be undertaken in accordance with the consultation requirements which includes:

- **Completed:** Ascertaining the names of Aboriginal people or groups who may hold cultural knowledge relevant to determining the significance of Aboriginal objects and/ or places within the proposed study area. This would include writing to the following:
 - Office of Environment and Heritage (OEH)
 - Local Aboriginal Land Council (LALC)
 - Office of the Registrar (Aboriginal Land Rights Act 1983)
 - National Native Title Tribunal (NNTT)
 - Native Title Services Corporation Limited (NTSCORP Limited)
 - Relevant Local Councils
 - Relevant Catchment Management Authorities
- **Completed:** Bosis will undertake the 'Placement of Notification' (Public Notice) in the *newspaper*, on behalf of Client, that must include details of the proponent, the project, the exact location, and statement of the purpose of the community consultation in preparation for possible test excavations and AHIPs. The Public Notice is also an invitation for Aboriginal people who hold relevant cultural knowledge about the study area. A closing date for the registration must be included and be no less than **14 days. Registration closed on 26 September 2018.**

- **Completed:** Aboriginal people or groups identified would be provided with notification of the proposed project via Biosis and given the opportunity to be involved in consultation. **Registrations of interest closed on 26 September 2018.**
- A list of Aboriginal people or groups who register an interest in the project will be forwarded to the OEH and the LALC by Biosis no later than **28 days** following close of registration. This list will not include those people or groups who specified that they did not want their details shared with OEH or the LALC.
- Biosis will provide details of the project and methodology for the archaeological assessment to the registered parties. The registered Aboriginal parties must be given an opportunity to review and provide feedback to the proponent within a minimum of **28 days** of the Biosis providing the methodology document.
- Selected representatives of the registered Aboriginal parties will be given the opportunity to participate in test excavations within the study area.
- The DRAFT ACHAR and Archaeological Report will be provided to all registered Aboriginal parties for comment – the proponent must allow **28 days** for comment. All comments and correspondence sent and received regarding the project will be included in the final report in an Appendix.

Field survey

An Aboriginal archaeological survey of the assessment area was undertaken in September 2018 by Biosis archaeologist Mathew Smith and Duncan Falk of Duncan Falk Consulting. This was undertaken in accordance with the guidelines outlined in the code in order to identify any previously unknown Aboriginal objects, sites or places, should they be present and to inspect previously recorded sites within the study area.

Two existing sites are located within the study area. Chelsea gardens Locale site 1 (AHIMS 52-4-0193) was located in the north eastern corner of the study area and contained artefacts eroding out of a silage pit. The second site was Chelsea gardens Locale site 2 (AHIMS 52-4-0194) and was located on a small knoll in the northern section of the study area. This site consisted of 10 artefacts eroding out soil profile. Both sites contained moderate potential for archaeological deposits.

The survey also identified two areas of moderate Aboriginal archaeological potential within the study area that were not associated with existing sites. These two areas were both located on hill crests. The rest of the study area contained low archaeological potential. These areas consisted of flat and hillslopes landforms, which due to the distance from water, the intensive use of these areas for cropping and livestock grazing and the steep slopes, contained low potential

Test excavation

The survey has identified the need for further assessment in the form of test excavations. This will be undertaken in accordance with the code. Further information on the methodology for this test excavation and the areas of potential archaeological deposit within the study area is available in the project methodology.

Reporting

A draft report will be prepared in accordance with the code and will include:

- Background and project description.
- A summary and analysis of the findings including the presence and location of registered or new identified Aboriginal artefacts or heritage items within the study area.
- A summary of any other relevant studies or surveys which have relevance to the assessment area.
- A summary of the landscape features of the site which may indicate a history of Aboriginal activity.
- A summary of previous land use that may have affected the retention of intact Aboriginal archaeology in the landscape.
- The potential or likelihood for the proposed works to uncover or expose potential undiscovered Aboriginal objects.
- Survey and test excavation results.
- Legislative implications of the proposed works.
- Recommendations and justification for further assessment (if required).
- Mitigation measures (if any) required for the works to proceed.
- Mapping will be carried out to show the location of registered and newly located (if any) Aboriginal sites in relation to the proposed works.

Registered Aboriginal parties will be provided with the draft report for comment and allowed 28 days for review.

The final report will incorporate all comments.

Project schedule

The proposed schedule and broad time allocations for the consultation stages are summarised below.

Action	Timeframe	Notes
Commencement of Aboriginal community consultation – advertising of project, Notification to stakeholders etc.	Completed	Project advertised in <i>Southern Highlands News</i> on 5 September 2018; notices sent to stakeholders 12 September 2018.
Field survey	Completed	Survey undertaken by Biosis archaeologist Mathew Smith and Duncan Falk of Duncan Falk Consultancy in September 2018.
Provision of client-reviewed DRAFT Methodology Document to registered Aboriginal stakeholders for review and comment – these methods will form the basis for all archaeological and cultural heritage work	TBC	28 days review time allowed under OEH Aboriginal community consultation guidelines.
Test excavations	TBC	
Information gathering		Until finalisation of the report

Action	Timeframe	Notes
Review of the draft report	TBC	28 days review time allowed under OEH Aboriginal community consultation guidelines
Completion and finalisation of report	TBC	

Responsibilities and roles

As part of the consultation process registered Aboriginal parties are invited to respond to requests for cultural information and comment on draft reporting, as appropriate in accordance with their role specified in the guidelines (DECCW 2010a, p. 16). Biosis and the proponent, in accordance with their role under the guidelines, will consult with the Aboriginal community by supplying suitable project information and providing the opportunity for Aboriginal stakeholders to provide input into the heritage management process (DECCW 2010a, pp. 16-17).

Each section of the methodology will be undertaken in consultation with the Aboriginal stakeholders. Biosis invites Aboriginal stakeholders to provide culturally appropriate information via mail, email or phone with regards to this project.

Cultural information provided will be recorded in the Aboriginal consultation log and discussed in the report. If the information is regarded as too sensitive to be made public then the Aboriginal stakeholder should advise Biosis and identify the nature of the sensitivity. Biosis will then arrange for the recording of the information in accordance with its sensitivity. Documents which hold sensitive information will clearly list, on the front cover, who can have access to the document. These documents will be stored securely.

References

Department of Environment, Climate Change and Water. 2010a. Code of practice for Archaeological Investigation of Aboriginal Objects in New South Wales 2010. NSW Department of Environment, Climate Change and Water, Sydney NSW.

Department of Environment, Climate Change and Water. 2010b. Aboriginal cultural heritage consultation requirements for proponents 2010. NSW Department of Environment, Climate Change and Water, Sydney NSW.

RE: Moss Vale Aboriginal Cultural Heritage Assessment - Project methodology

Our Ref: Matter 28011

This letter is being provided to all the Registered Aboriginal Parties (RAPs) who registered their interest in the consultation process for the Moss Vale development being undertaken by Aoyuan International (Figure 1, Figure 2).

In accordance with the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010) (consultation requirements), we provide the proposed methodology for the Aboriginal Cultural Heritage Assessment (ACHA) for your review and feedback.

It would be appreciated if you would provide feedback on the methodology presented in this letter to Biosis Pty Ltd by **5 pm 16 November 2018** either by email, phone or return mail.

Please address feedback on the methodology to:

Mathew Smith
Biosis Pty Ltd
8 Tate Street
Wollongong NSW 2500
msmith@biosis.com.au

Please do not hesitate to contact me if you require additional information or have any queries about the methodology or information provided.

Kind regards,

A handwritten signature in blue ink that reads 'M Smith'.

Mathew Smith

Archaeologist
msmith@biosis.com.au

Stage 3: Moss Vale Aboriginal Cultural Heritage Assessment: Methodology for test excavations

The following information has been provided in accordance with the consultation requirements. The aim of this document is to provide registered Aboriginal parties (RAPs) with the proposed methodology for the cultural heritage and archaeological assessment.

Biosis Pty Ltd recently completed an archaeological survey of the study area for Aboriginal archaeological heritage for the proposed works. Biosis identified two existing sites with areas of moderate potential and two areas of moderate potential on a crest landform within the study area (Figure 3). The two existing sites consisted of Chelsea Gardens Locale 1, an artefact scatter that was eroding out of a silage pit, and Chelsea Gardens Locale 2, an artefact scatter located eroding out of a small knoll. Both sites contained moderate archaeological potential. The proposed development will impact on these areas of potential, and as such further assessment would be required in the form of subsurface test excavations and an application for an Aboriginal Heritage Impact Permit (AHIP). The proposed methodology is detailed below for these test excavations.

Test excavation methodology

Aims of the sub-surface test excavations

The principle objectives of the subsurface test excavations are to identify and understand the nature, extent and significance of any archaeological sites located within areas of archaeological potential.

The aims of the testing program are to:

- Determine whether sub-surface archaeological deposits exist which may be impacted by the development.
- If so, to determine the extent and nature of such deposits.
- Identify if the archaeological material occurs in an intact, undisturbed context, by examining the soil profile and stratigraphy.
- Analyse and interpret any archaeological finds (such as stone artefacts, shell midden deposits, etc.) recovered during the testing program.
- Inform current knowledge of Aboriginal occupation and land use models of the region.
- Provide management and mitigation measures for Aboriginal archaeological objects located during the subsurface testing program.

Test excavation sampling strategy

Test excavations across the study area will conform to the following methodology:

- Test excavations will be undertaken in areas identified as having the potential to contain Aboriginal cultural material.

- Test excavation units will consist of one 50 cm x 50 cm test pit, in order to determine the nature of sub-surface deposit and presence of any possible archaeological deposits.
- Test excavations units must be excavated using hand tools only including spades, handle shovels, and trowels.
- The first test excavation unit will be excavated and documented in 5 cm spits and all following units. All material excavated from the test excavation units must be sieved using nested 5 mm aperture wire-mesh sieves.
- Test excavation units must be excavated to at least the base of the identified Aboriginal object-bearing units, and must continue to confirm the soils below are culturally sterile.
- All cultural material will be collected, bagged and clearly labelled. They will be temporarily stored in the Biosis office for analysis (at Unit 14, 17-27 Power Avenue, Alexandria).
- The following documentation will be taken for the test pit:
 - Unique test pit identification number.
 - GPS coordinate.
 - Munsell soil colour, texture and pH.
 - Amount and location of cultural material within the deposit.
 - Nature of disturbance where present.
 - Stratigraphy.
 - Archaeological features (if present).
 - Photographic records.
 - Spit records.
- The test excavation unit must be backfilled as soon as practicable due to safety issues.

Following test excavation, an Aboriginal Site Recording form must be completed and submitted to the AHIMS Registrar, as soon as practicable, for each AHIMS site that has been identified.

Standard protocol for the discovery of any human remains is to be followed in the event that human remains are discovered.



Legend
 Study area

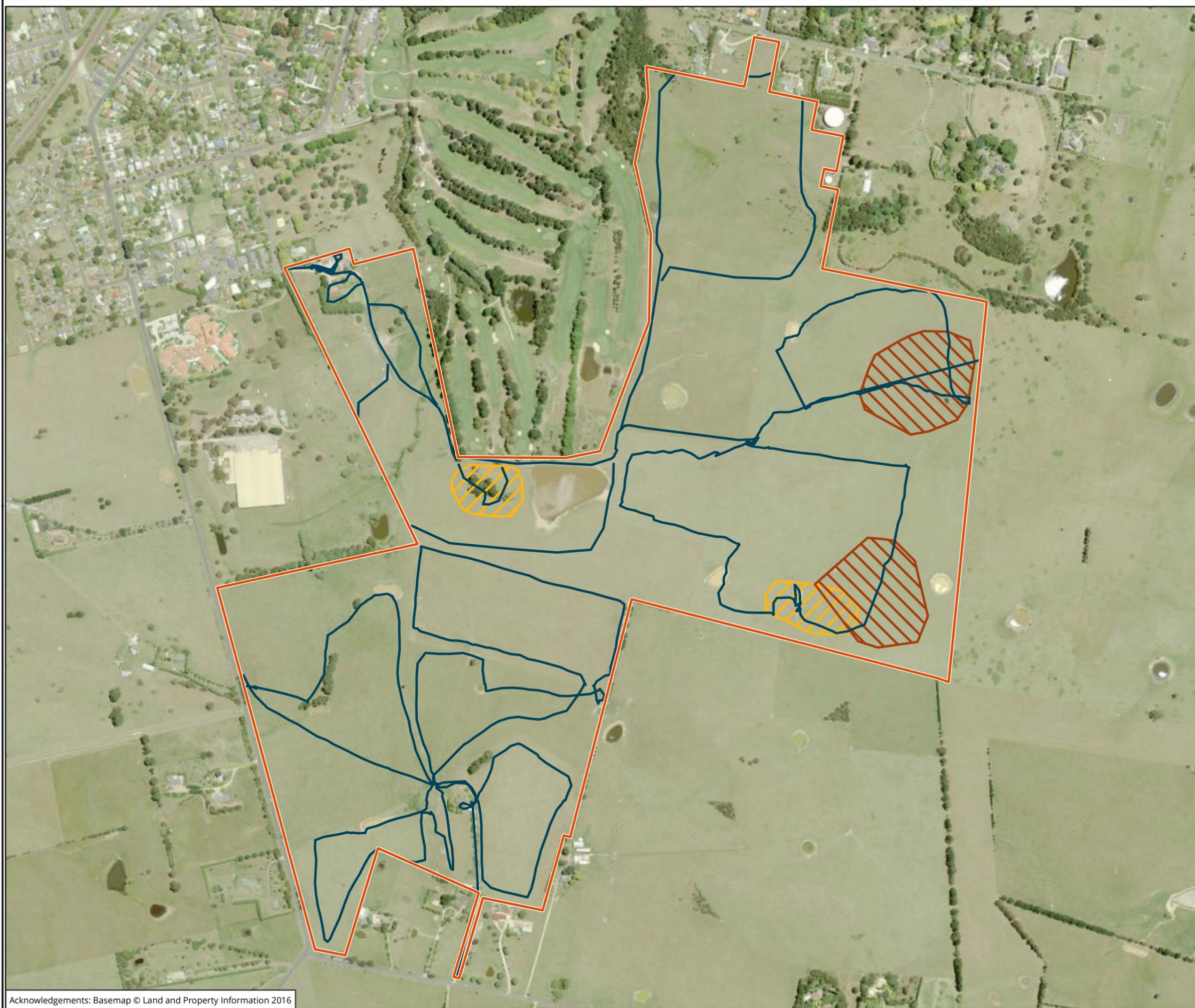
Figure 1: Study area detail



Metres
 Scale: 1:7,000 @ A3
 Coordinate System: GDA 1994 NSW Lambert



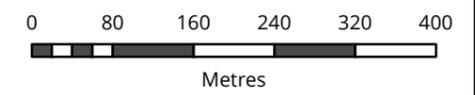
Matter: 28011
 Date: 09 October 2018,
 Checked by: MJS, Drawn by: JSP, Last edited by: lwilson
 Location: P:\28000s\28011\Mapping\28011_F2_StudyArea



Legend

-  Study area
-  Survey tracks
- Survey results**
-  Artefact sites with PAD
-  Moderate potential

Figure 2: Survey results



Scale: 1:7,000 @ A3
 Coordinate System: GDA 1994 NSW Lambert



Albury, Ballarat, Melbourne,
 Newcastle, Sydney, Wangaratta & Wollongong

19 October 2018

Individual

James Davis

2 Poplar Avenue

Unanderra NSW 2526

Dear James,

RE: Moss Vale Aboriginal Cultural Heritage Assessment - project information
Our Ref: Matter 28011

Thank you for your registration of interest in this project. We are writing to you in order to provide you with the project information and methodology packs for the proposed development at Lot 3 DP 706194 and Lot 12 DP 866036, Moss Vale, NSW. This information has been provided in accordance with the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010a) (consultation requirements).

In this letter you will find the project information pack and project methodology.

The purpose of the methodology document is to provide you with further information on the background of this assessment, as well as the methodology for how it will be conducted, including the test excavations.

Please note that comments on the project methodology pack should be received before **5 pm 16 November 2018**.

As this project will involve test excavations, the purpose of the second letter is to invite your feedback on the proposed project information and methodology packs, and to assist the proponent in the programming of groups for participation in the test excavations which will be carried out within the study area.

If you have any queries regarding the project or the information in this letter, please don't hesitate to contact us.

Yours sincerely,

Mathew Smith



Archaeologist
msmith@biosis.com.au

Project information

The following information has been provided in accordance with the consultation requirements. The aim of this document is to provide registered Aboriginal parties with information about the proposed project and the scope of the Aboriginal archaeology and cultural heritage investigations and assessment.

Study area

The study area is located at Lot 3 DP 706194 and Lot 12 DP 866036, Moss Vale, NSW, within the Wingecarribee Shire Council Local Government Area (LGA), Parish of Bong Bong, and County of Camden.

Project

Aoyuan International are proposing to develop the study area into a number of residential blocks so Biosis Pty Ltd is assisting Aoyuan International with consultation with the Aboriginal community and the Aboriginal Cultural Heritage Assessment. Consultation with the Aboriginal community will follow the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010). The purpose of the Aboriginal community consultation will be to provide sufficient information for the assessment of Aboriginal cultural heritage values and to inform the Aboriginal Cultural Heritage Assessment (ACHA). This will assist with the possible application for an AHIP, and will assist the Office of Environment and Heritage (OEH) in consideration and determination of the AHIP application.

Aboriginal cultural heritage assessment process

The assessment process includes the following steps:

Background research

Background research has been undertaken in order to identify known Aboriginal sites, areas of potential archaeological sensitivity and previous disturbance, and inform the predictive modelling for the assessment area. Background research will be conducted in line with the requirements of the *Code of Practice for the Investigation of Aboriginal Objects in New South Wales* (DECCW 2010) ('the code'). Background research for the project included the following tasks:

- Conduct heritage register searches to identify previously recorded cultural heritage sites in or within the vicinity of the proposed study area. Searches will include the Aboriginal Heritage Information Management System (AHIMS), the National Heritage List, Commonwealth Heritage List, Register of the National Estate, State Heritage Register, Local Environmental Plan and National Trust heritage lists.
- Conduct additional background research in order to recognise any identifiable regional trends in site distribution and location and provide a site prediction model for the study area.
- Undertake a comprehensive survey of the study area, identifying any previously recorded sites (on AHIMS).
- Record and assess sites identified during the survey in compliance with the guidelines issued by the OEH.
- Assess the scientific significance of all identified Aboriginal cultural heritage sites and places;

- Identify impacts to all identified Aboriginal cultural heritage sites and places based on potential ground disturbance from the proposed realignment of the road.
- Make recommendations to minimise or mitigate potential impacts of the proposed realignment upon cultural heritage values within the study area.

Consultation with the Aboriginal community

This task will allow the Aboriginal community the opportunity to participate in decisions regarding the management of their cultural heritage by providing proponents information regarding cultural significance and input into management options.

Consultation with Aboriginal stakeholders under the DECCW 2010 consultation guidelines is being undertaken to assist School Infrastructure NSW by:

- providing relevant information about the cultural significance and values of the Aboriginal object(s) and/or place(s) within the study area.
- influencing the design of the method to assess cultural and scientific significance of Aboriginal objects(s) and/or place(s) within the study area.
- actively contributing to the development of cultural heritage management plan options and recommendations for any Aboriginal object(s) and/or place(s) within the proposed study area.
- commenting on the draft assessment reports before they are submitted by the proponent to the determining authority of the proposed realignment.

Aboriginal community consultation will be undertaken in accordance with the consultation requirements which includes:

- **Completed:** Ascertaining the names of Aboriginal people or groups who may hold cultural knowledge relevant to determining the significance of Aboriginal objects and/ or places within the proposed study area. This would include writing to the following:
 - Office of Environment and Heritage (OEH)
 - Local Aboriginal Land Council (LALC)
 - Office of the Registrar (Aboriginal Land Rights Act 1983)
 - National Native Title Tribunal (NNTT)
 - Native Title Services Corporation Limited (NTSCORP Limited)
 - Relevant Local Councils
 - Relevant Catchment Management Authorities
- **Completed:** Bosis will undertake the 'Placement of Notification' (Public Notice) in the *newspaper*, on behalf of Client, that must include details of the proponent, the project, the exact location, and statement of the purpose of the community consultation in preparation for possible test excavations and AHIPs. The Public Notice is also an invitation for Aboriginal people who hold relevant cultural knowledge about the study area. A closing date for the registration must be included and be no less than **14 days. Registration closed on 26 September 2018.**

- **Completed:** Aboriginal people or groups identified would be provided with notification of the proposed project via Biosis and given the opportunity to be involved in consultation. **Registrations of interest closed on 26 September 2018.**
- A list of Aboriginal people or groups who register an interest in the project will be forwarded to the OEH and the LALC by Biosis no later than **28 days** following close of registration. This list will not include those people or groups who specified that they did not want their details shared with OEH or the LALC.
- Biosis will provide details of the project and methodology for the archaeological assessment to the registered parties. The registered Aboriginal parties must be given an opportunity to review and provide feedback to the proponent within a minimum of **28 days** of the Biosis providing the methodology document.
- Selected representatives of the registered Aboriginal parties will be given the opportunity to participate in test excavations within the study area.
- The DRAFT ACHAR and Archaeological Report will be provided to all registered Aboriginal parties for comment – the proponent must allow **28 days** for comment. All comments and correspondence sent and received regarding the project will be included in the final report in an Appendix.

Field survey

An Aboriginal archaeological survey of the assessment area was undertaken in September 2018 by Biosis archaeologist Mathew Smith and Duncan Falk of Duncan Falk Consulting. This was undertaken in accordance with the guidelines outlined in the code in order to identify any previously unknown Aboriginal objects, sites or places, should they be present and to inspect previously recorded sites within the study area.

Two existing sites are located within the study area. Chelsea gardens Locale site 1 (AHIMS 52-4-0193) was located in the north eastern corner of the study area and contained artefacts eroding out of a silage pit. The second site was Chelsea gardens Locale site 2 (AHIMS 52-4-0194) and was located on a small knoll in the northern section of the study area. This site consisted of 10 artefacts eroding out soil profile. Both sites contained moderate potential for archaeological deposits.

The survey also identified two areas of moderate Aboriginal archaeological potential within the study area that were not associated with existing sites. These two areas were both located on hill crests. The rest of the study area contained low archaeological potential. These areas consisted of flat and hillslopes landforms, which due to the distance from water, the intensive use of these areas for cropping and livestock grazing and the steep slopes, contained low potential

Test excavation

The survey has identified the need for further assessment in the form of test excavations. This will be undertaken in accordance with the code. Further information on the methodology for this test excavation and the areas of potential archaeological deposit within the study area is available in the project methodology.

Reporting

A draft report will be prepared in accordance with the code and will include:

- Background and project description.
- A summary and analysis of the findings including the presence and location of registered or new identified Aboriginal artefacts or heritage items within the study area.
- A summary of any other relevant studies or surveys which have relevance to the assessment area.
- A summary of the landscape features of the site which may indicate a history of Aboriginal activity.
- A summary of previous land use that may have affected the retention of intact Aboriginal archaeology in the landscape.
- The potential or likelihood for the proposed works to uncover or expose potential undiscovered Aboriginal objects.
- Survey and test excavation results.
- Legislative implications of the proposed works.
- Recommendations and justification for further assessment (if required).
- Mitigation measures (if any) required for the works to proceed.
- Mapping will be carried out to show the location of registered and newly located (if any) Aboriginal sites in relation to the proposed works.

Registered Aboriginal parties will be provided with the draft report for comment and allowed 28 days for review.

The final report will incorporate all comments.

Project schedule

The proposed schedule and broad time allocations for the consultation stages are summarised below.

Action	Timeframe	Notes
Commencement of Aboriginal community consultation – advertising of project, Notification to stakeholders etc.	Completed	Project advertised in <i>Southern Highlands News</i> on 5 September 2018; notices sent to stakeholders 12 September 2018.
Field survey	Completed	Survey undertaken by Biosis archaeologist Mathew Smith and Duncan Falk of Duncan Falk Consultancy in September 2018.
Provision of client-reviewed DRAFT Methodology Document to registered Aboriginal stakeholders for review and comment – these methods will form the basis for all archaeological and cultural heritage work	TBC	28 days review time allowed under OEH Aboriginal community consultation guidelines.
Test excavations	TBC	
Information gathering		Until finalisation of the report

Action	Timeframe	Notes
Review of the draft report	TBC	28 days review time allowed under OEH Aboriginal community consultation guidelines
Completion and finalisation of report	TBC	

Responsibilities and roles

As part of the consultation process registered Aboriginal parties are invited to respond to requests for cultural information and comment on draft reporting, as appropriate in accordance with their role specified in the guidelines (DECCW 2010a, p. 16). Biosis and the proponent, in accordance with their role under the guidelines, will consult with the Aboriginal community by supplying suitable project information and providing the opportunity for Aboriginal stakeholders to provide input into the heritage management process (DECCW 2010a, pp. 16-17).

Each section of the methodology will be undertaken in consultation with the Aboriginal stakeholders. Biosis invites Aboriginal stakeholders to provide culturally appropriate information via mail, email or phone with regards to this project.

Cultural information provided will be recorded in the Aboriginal consultation log and discussed in the report. If the information is regarded as too sensitive to be made public then the Aboriginal stakeholder should advise Biosis and identify the nature of the sensitivity. Biosis will then arrange for the recording of the information in accordance with its sensitivity. Documents which hold sensitive information will clearly list, on the front cover, who can have access to the document. These documents will be stored securely.

References

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Department of Environment, Climate Change and Water. 2010b. Aboriginal cultural heritage consultation requirements for proponents 2010. NSW Department of Environment, Climate Change and Water, Sydney NSW.

RE: Moss Vale Aboriginal Cultural Heritage Assessment - Project methodology

Our Ref: Matter 28011

This letter is being provided to all the Registered Aboriginal Parties (RAPs) who registered their interest in the consultation process for the Moss Vale development being undertaken by Aoyuan International (Figure 1, Figure 2).

In accordance with the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010) (consultation requirements), we provide the proposed methodology for the Aboriginal Cultural Heritage Assessment (ACHA) for your review and feedback.

It would be appreciated if you would provide feedback on the methodology presented in this letter to Biosis Pty Ltd by **5 pm 16 November 2018** either by email, phone or return mail.

Please address feedback on the methodology to:

Mathew Smith
Biosis Pty Ltd
8 Tate Street
Wollongong NSW 2500
msmith@biosis.com.au

Please do not hesitate to contact me if you require additional information or have any queries about the methodology or information provided.

Kind regards,

A handwritten signature in blue ink that reads 'M Smith'.

Mathew Smith

Archaeologist
msmith@biosis.com.au

Stage 3: Moss Vale Aboriginal Cultural Heritage Assessment: Methodology for test excavations

The following information has been provided in accordance with the consultation requirements. The aim of this document is to provide registered Aboriginal parties (RAPs) with the proposed methodology for the cultural heritage and archaeological assessment.

Biosis Pty Ltd recently completed an archaeological survey of the study area for Aboriginal archaeological heritage for the proposed works. Biosis identified two existing sites with areas of moderate potential and two areas of moderate potential on a crest landform within the study area (Figure 3). The two existing sites consisted of Chelsea Gardens Locale 1, an artefact scatter that was eroding out of a silage pit, and Chelsea Gardens Locale 2, an artefact scatter located eroding out of a small knoll. Both sites contained moderate archaeological potential. The proposed development will impact on these areas of potential, and as such further assessment would be required in the form of subsurface test excavations and an application for an Aboriginal Heritage Impact Permit (AHIP). The proposed methodology is detailed below for these test excavations.

Test excavation methodology

Aims of the sub-surface test excavations

The principle objectives of the subsurface test excavations are to identify and understand the nature, extent and significance of any archaeological sites located within areas of archaeological potential.

The aims of the testing program are to:

- Determine whether sub-surface archaeological deposits exist which may be impacted by the development.
- If so, to determine the extent and nature of such deposits.
- Identify if the archaeological material occurs in an intact, undisturbed context, by examining the soil profile and stratigraphy.
- Analyse and interpret any archaeological finds (such as stone artefacts, shell midden deposits, etc.) recovered during the testing program.
- Inform current knowledge of Aboriginal occupation and land use models of the region.
- Provide management and mitigation measures for Aboriginal archaeological objects located during the subsurface testing program.

Test excavation sampling strategy

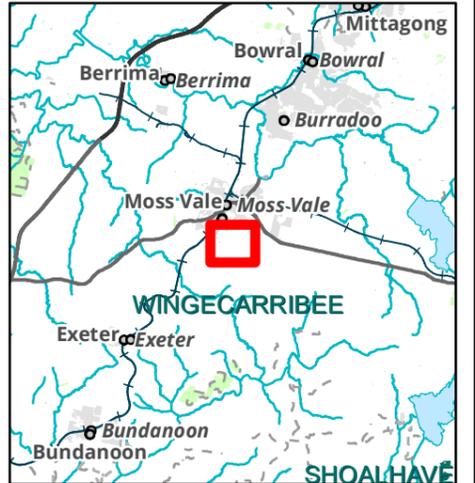
Test excavations across the study area will conform to the following methodology:

- Test excavations will be undertaken in areas identified as having the potential to contain Aboriginal cultural material.

- Test excavation units will consist of one 50 cm x 50 cm test pit, in order to determine the nature of sub-surface deposit and presence of any possible archaeological deposits.
- Test excavations units must be excavated using hand tools only including spades, handle shovels, and trowels.
- The first test excavation unit will be excavated and documented in 5 cm spits and all following units. All material excavated from the test excavation units must be sieved using nested 5 mm aperture wire-mesh sieves.
- Test excavation units must be excavated to at least the base of the identified Aboriginal object-bearing units, and must continue to confirm the soils below are culturally sterile.
- All cultural material will be collected, bagged and clearly labelled. They will be temporarily stored in the Biosis office for analysis (at Unit 14, 17-27 Power Avenue, Alexandria).
- The following documentation will be taken for the test pit:
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 - GPS coordinate.
 - Munsell soil colour, texture and pH.
 - Amount and location of cultural material within the deposit.
 - Nature of disturbance where present.
 - Stratigraphy.
 - Archaeological features (if present).
 - Photographic records.
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- The test excavation unit must be backfilled as soon as practicable due to safety issues.

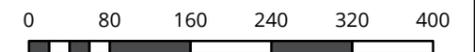
Following test excavation, an Aboriginal Site Recording form must be completed and submitted to the AHIMS Registrar, as soon as practicable, for each AHIMS site that has been identified.

Standard protocol for the discovery of any human remains is to be followed in the event that human remains are discovered.



Legend
 Study area

Figure 1: Study area detail

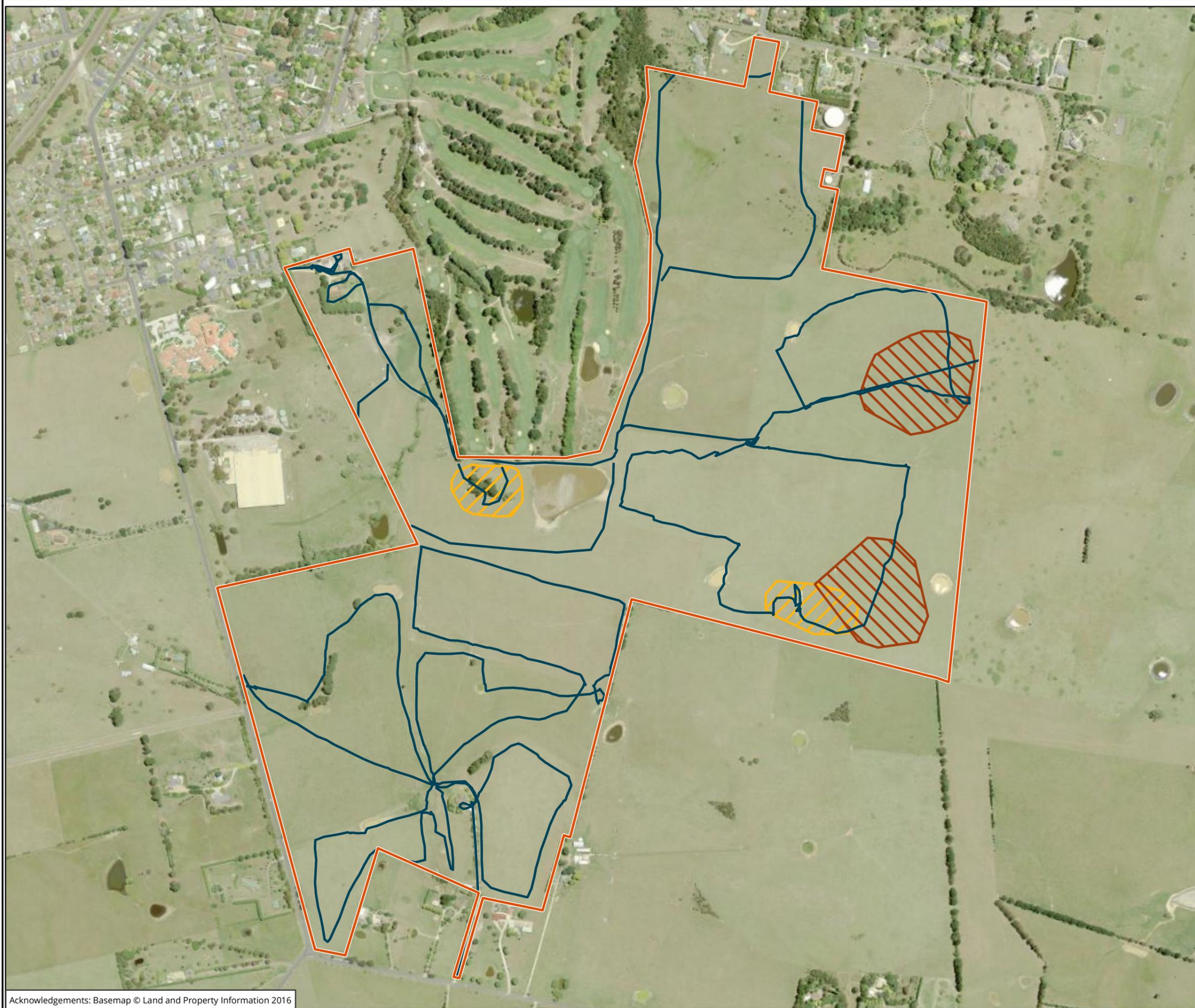


Metres
 Scale: 1:7,000 @ A3
 Coordinate System: GDA 1994 NSW Lambert



Albury, Ballarat, Melbourne,
 Newcastle, Sydney, Wangaratta & Wollongong

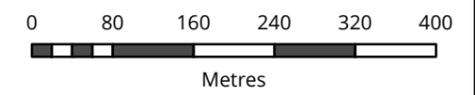
Matter: 28011
 Date: 09 October 2018,
 Checked by: MJS, Drawn by: JSP, Last edited by: lwilson
 Location: P:\28000s\28011\mapping\28011_F2_StudyArea



Legend

-  Study area
-  Survey tracks
- Survey results**
-  Artefact sites with PAD
-  Moderate potential

Figure 2: Survey results



Scale: 1:7,000 @ A3
Coordinate System: GDA 1994 NSW Lambert



Albury, Ballarat, Melbourne,
Newcastle, Sydney, Wangaratta & Wollongong

19 October 2018

Tungai Tonghi

Troy Tungai

Dear Troy,

RE: Moss Vale Aboriginal Cultural Heritage Assessment – project information

Our Ref: Matter 28011

Thank you for your registration of interest in this project. We are writing to you in order to provide you with the project information and methodology packs for the proposed development at Lot 3 DP 706194 and Lot 12 DP 866036, Moss Vale, NSW. This information has been provided in accordance with the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010a) (consultation requirements).

In this letter you will find the project information pack and project methodology.

The purpose of the methodology document is to provide you with further information on the background of this assessment, as well as the methodology for how it will be conducted, including the test excavations.

Please note that comments on the project methodology pack should be received before **5 pm 16 November 2018**.

As this project will involve test excavations, the purpose of the second letter is to invite your feedback on the proposed project information and methodology packs, and to assist the proponent in the programming of groups for participation in the test excavations which will be carried out within the study area.

If you have any queries regarding the project or the information in this letter, please don't hesitate to contact us.

Yours sincerely,

Mathew Smith



Archaeologist
msmith@biosis.com.au

Project information

The following information has been provided in accordance with the consultation requirements. The aim of this document is to provide registered Aboriginal parties with information about the proposed project and the scope of the Aboriginal archaeology and cultural heritage investigations and assessment.

Study area

The study area is located at Lot 3 DP 706194 and Lot 12 DP 866036, Moss Vale, NSW, within the Wingecarribee Shire Council Local Government Area (LGA), Parish of Bong Bong, and County of Camden.

Project

Aoyuan International are proposing to develop the study area into a number of residential blocks so Biosis Pty Ltd is assisting Aoyuan International with consultation with the Aboriginal community and the Aboriginal Cultural Heritage Assessment. Consultation with the Aboriginal community will follow the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010). The purpose of the Aboriginal community consultation will be to provide sufficient information for the assessment of Aboriginal cultural heritage values and to inform the Aboriginal Cultural Heritage Assessment (ACHA). This will assist with the possible application for an AHIP, and will assist the Office of Environment and Heritage (OEH) in consideration and determination of the AHIP application.

Aboriginal cultural heritage assessment process

The assessment process includes the following steps:

Background research

Background research has been undertaken in order to identify known Aboriginal sites, areas of potential archaeological sensitivity and previous disturbance, and inform the predictive modelling for the assessment area. Background research will be conducted in line with the requirements of the *Code of Practice for the Investigation of Aboriginal Objects in New South Wales* (DECCW 2010) ('the code'). Background research for the project included the following tasks:

- Conduct heritage register searches to identify previously recorded cultural heritage sites in or within the vicinity of the proposed study area. Searches will include the Aboriginal Heritage Information Management System (AHIMS), the National Heritage List, Commonwealth Heritage List, Register of the National Estate, State Heritage Register, Local Environmental Plan and National Trust heritage lists.
- Conduct additional background research in order to recognise any identifiable regional trends in site distribution and location and provide a site prediction model for the study area.
- Undertake a comprehensive survey of the study area, identifying any previously recorded sites (on AHIMS).
- Record and assess sites identified during the survey in compliance with the guidelines issued by the OEH.
- Assess the scientific significance of all identified Aboriginal cultural heritage sites and places;

- Identify impacts to all identified Aboriginal cultural heritage sites and places based on potential ground disturbance from the proposed realignment of the road.
- Make recommendations to minimise or mitigate potential impacts of the proposed realignment upon cultural heritage values within the study area.

Consultation with the Aboriginal community

This task will allow the Aboriginal community the opportunity to participate in decisions regarding the management of their cultural heritage by providing proponents information regarding cultural significance and input into management options.

Consultation with Aboriginal stakeholders under the DECCW 2010 consultation guidelines is being undertaken to assist School Infrastructure NSW by:

- providing relevant information about the cultural significance and values of the Aboriginal object(s) and/or place(s) within the study area.
- influencing the design of the method to assess cultural and scientific significance of Aboriginal objects(s) and/or place(s) within the study area.
- actively contributing to the development of cultural heritage management plan options and recommendations for any Aboriginal object(s) and/or place(s) within the proposed study area.
- commenting on the draft assessment reports before they are submitted by the proponent to the determining authority of the proposed realignment.

Aboriginal community consultation will be undertaken in accordance with the consultation requirements which includes:

- **Completed:** Ascertaining the names of Aboriginal people or groups who may hold cultural knowledge relevant to determining the significance of Aboriginal objects and/ or places within the proposed study area. This would include writing to the following:
 - Office of Environment and Heritage (OEH)
 - Local Aboriginal Land Council (LALC)
 - Office of the Registrar (Aboriginal Land Rights Act 1983)
 - National Native Title Tribunal (NNTT)
 - Native Title Services Corporation Limited (NTSCORP Limited)
 - Relevant Local Councils
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- **Completed:** Bosis will undertake the 'Placement of Notification' (Public Notice) in the *newspaper*, on behalf of Client, that must include details of the proponent, the project, the exact location, and statement of the purpose of the community consultation in preparation for possible test excavations and AHIPs. The Public Notice is also an invitation for Aboriginal people who hold relevant cultural knowledge about the study area. A closing date for the registration must be included and be no less than **14 days. Registration closed on 26 September 2018.**

- **Completed:** Aboriginal people or groups identified would be provided with notification of the proposed project via Biosis and given the opportunity to be involved in consultation. **Registrations of interest closed on 26 September 2018.**
- A list of Aboriginal people or groups who register an interest in the project will be forwarded to the OEH and the LALC by Biosis no later than **28 days** following close of registration. This list will not include those people or groups who specified that they did not want their details shared with OEH or the LALC.
- Biosis will provide details of the project and methodology for the archaeological assessment to the registered parties. The registered Aboriginal parties must be given an opportunity to review and provide feedback to the proponent within a minimum of **28 days** of the Biosis providing the methodology document.
- Selected representatives of the registered Aboriginal parties will be given the opportunity to participate in test excavations within the study area.
- The DRAFT ACHAR and Archaeological Report will be provided to all registered Aboriginal parties for comment – the proponent must allow **28 days** for comment. All comments and correspondence sent and received regarding the project will be included in the final report in an Appendix.

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An Aboriginal archaeological survey of the assessment area was undertaken in September 2018 by Biosis archaeologist Mathew Smith and Duncan Falk of Duncan Falk Consulting. This was undertaken in accordance with the guidelines outlined in the code in order to identify any previously unknown Aboriginal objects, sites or places, should they be present and to inspect previously recorded sites within the study area.

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The survey has identified the need for further assessment in the form of test excavations. This will be undertaken in accordance with the code. Further information on the methodology for this test excavation and the areas of potential archaeological deposit within the study area is available in the project methodology.

Reporting

A draft report will be prepared in accordance with the code and will include:

- Background and project description.
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- A summary of any other relevant studies or surveys which have relevance to the assessment area.
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- A summary of previous land use that may have affected the retention of intact Aboriginal archaeology in the landscape.
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- Survey and test excavation results.
- Legislative implications of the proposed works.
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Registered Aboriginal parties will be provided with the draft report for comment and allowed 28 days for review.

The final report will incorporate all comments.

Project schedule

The proposed schedule and broad time allocations for the consultation stages are summarised below.

Action	Timeframe	Notes
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Provision of client-reviewed DRAFT Methodology Document to registered Aboriginal stakeholders for review and comment – these methods will form the basis for all archaeological and cultural heritage work	TBC	28 days review time allowed under OEH Aboriginal community consultation guidelines.
Test excavations	TBC	
Information gathering		Until finalisation of the report

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As part of the consultation process registered Aboriginal parties are invited to respond to requests for cultural information and comment on draft reporting, as appropriate in accordance with their role specified in the guidelines (DECCW 2010a, p. 16). Biosis and the proponent, in accordance with their role under the guidelines, will consult with the Aboriginal community by supplying suitable project information and providing the opportunity for Aboriginal stakeholders to provide input into the heritage management process (DECCW 2010a, pp. 16-17).

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RE: Moss Vale Aboriginal Cultural Heritage Assessment - Project methodology

Our Ref: Matter 28011

This letter is being provided to all the Registered Aboriginal Parties (RAPs) who registered their interest in the consultation process for the Moss Vale development being undertaken by Aoyuan International (Figure 1, Figure 2).

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Please address feedback on the methodology to:

Mathew Smith
Biosis Pty Ltd
8 Tate Street
Wollongong NSW 2500
msmith@biosis.com.au

Please do not hesitate to contact me if you require additional information or have any queries about the methodology or information provided.

Kind regards,

A handwritten signature in blue ink that reads 'M Smith'.

Mathew Smith

Archaeologist
msmith@biosis.com.au

Stage 3: Moss Vale Aboriginal Cultural Heritage Assessment: Methodology for test excavations

The following information has been provided in accordance with the consultation requirements. The aim of this document is to provide registered Aboriginal parties (RAPs) with the proposed methodology for the cultural heritage and archaeological assessment.

Biosis Pty Ltd recently completed an archaeological survey of the study area for Aboriginal archaeological heritage for the proposed works. Biosis identified two existing sites with areas of moderate potential and two areas of moderate potential on a crest landform within the study area (Figure 3). The two existing sites consisted of Chelsea Gardens Locale 1, an artefact scatter that was eroding out of a silage pit, and Chelsea Gardens Locale 2, an artefact scatter located eroding out of a small knoll. Both sites contained moderate archaeological potential. The proposed development will impact on these areas of potential, and as such further assessment would be required in the form of subsurface test excavations and an application for an Aboriginal Heritage Impact Permit (AHIP). The proposed methodology is detailed below for these test excavations.

Test excavation methodology

Aims of the sub-surface test excavations

The principle objectives of the subsurface test excavations are to identify and understand the nature, extent and significance of any archaeological sites located within areas of archaeological potential.

The aims of the testing program are to:

- Determine whether sub-surface archaeological deposits exist which may be impacted by the development.
- If so, to determine the extent and nature of such deposits.
- Identify if the archaeological material occurs in an intact, undisturbed context, by examining the soil profile and stratigraphy.
- Analyse and interpret any archaeological finds (such as stone artefacts, shell midden deposits, etc.) recovered during the testing program.
- Inform current knowledge of Aboriginal occupation and land use models of the region.
- Provide management and mitigation measures for Aboriginal archaeological objects located during the subsurface testing program.

Test excavation sampling strategy

Test excavations across the study area will conform to the following methodology:

- Test excavations will be undertaken in areas identified as having the potential to contain Aboriginal cultural material.

- Test excavation units will consist of one 50 cm x 50 cm test pit, in order to determine the nature of sub-surface deposit and presence of any possible archaeological deposits.
- Test excavations units must be excavated using hand tools only including spades, handle shovels, and trowels.
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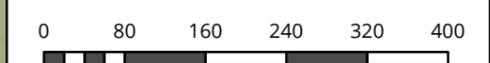
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Legend
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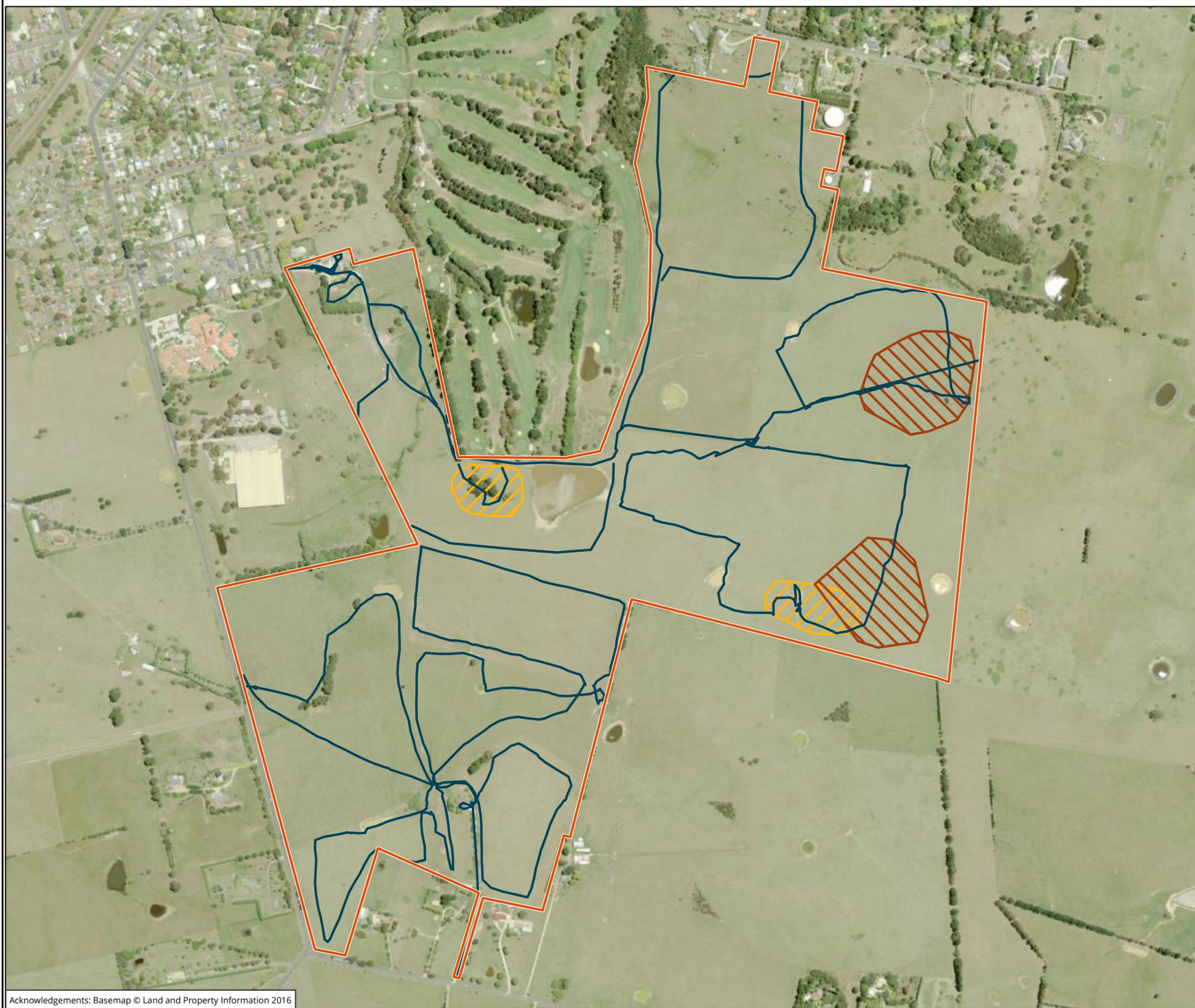
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Metres
 Scale: 1:7,000 @ A3
 Coordinate System: GDA 1994 NSW Lambert

biosis
 Biosis Pty Ltd
 Albury, Ballarat, Melbourne,
 Newcastle, Sydney, Wangaratta & Wollongong

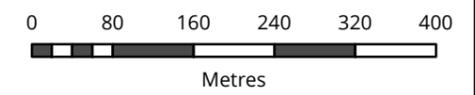
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 Date: 09 October 2018,
 Checked by: MJS, Drawn by: JSP, Last edited by: lwilson
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Legend

-  Study area
-  Survey tracks
- Survey results**
-  Artefact sites with PAD
-  Moderate potential

Figure 2: Survey results



Scale: 1:7,000 @ A3
Coordinate System: GDA 1994 NSW Lambert



Albury, Ballarat, Melbourne,
Newcastle, Sydney, Wangaratta & Wollongong

19 October 2018

Cubbitch Barta

Glenda Chlaker

55 Nightingale Road

Pheasants Nest NSW 2574

Dear Glenda,

RE: Moss Vale Aboriginal Cultural Heritage Assessment - project information

Our Ref: Matter 28011

Thank you for your registration of interest in this project. We are writing to you in order to provide you with the project information and methodology packs for the proposed development at Lot 3 DP 706194 and Lot 12 DP 866036, Moss Vale, NSW. This information has been provided in accordance with the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010a) (consultation requirements).

In this letter you will find the project information pack and project methodology.

The purpose of the methodology document is to provide you with further information on the background of this assessment, as well as the methodology for how it will be conducted, including the test excavations.

Please note that comments on the project methodology pack should be received before **5 pm 16 November 2018**.

As this project will involve test excavations, the purpose of the second letter is to invite your feedback on the proposed project information and methodology packs, and to assist the proponent in the programming of groups for participation in the test excavations which will be carried out within the study area.

If you have any queries regarding the project or the information in this letter, please don't hesitate to contact us.

Yours sincerely,

Mathew Smith



Archaeologist
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The study area is located at Lot 3 DP 706194 and Lot 12 DP 866036, Moss Vale, NSW, within the Wingecarribee Shire Council Local Government Area (LGA), Parish of Bong Bong, and County of Camden.

Project

Aoyuan International are proposing to develop the study area into a number of residential blocks so Biosis Pty Ltd is assisting Aoyuan International with consultation with the Aboriginal community and the Aboriginal Cultural Heritage Assessment. Consultation with the Aboriginal community will follow the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010). The purpose of the Aboriginal community consultation will be to provide sufficient information for the assessment of Aboriginal cultural heritage values and to inform the Aboriginal Cultural Heritage Assessment (ACHA). This will assist with the possible application for an AHIP, and will assist the Office of Environment and Heritage (OEH) in consideration and determination of the AHIP application.

Aboriginal cultural heritage assessment process

The assessment process includes the following steps:

Background research

Background research has been undertaken in order to identify known Aboriginal sites, areas of potential archaeological sensitivity and previous disturbance, and inform the predictive modelling for the assessment area. Background research will be conducted in line with the requirements of the *Code of Practice for the Investigation of Aboriginal Objects in New South Wales* (DECCW 2010) ('the code'). Background research for the project included the following tasks:

- Conduct heritage register searches to identify previously recorded cultural heritage sites in or within the vicinity of the proposed study area. Searches will include the Aboriginal Heritage Information Management System (AHIMS), the National Heritage List, Commonwealth Heritage List, Register of the National Estate, State Heritage Register, Local Environmental Plan and National Trust heritage lists.
- Conduct additional background research in order to recognise any identifiable regional trends in site distribution and location and provide a site prediction model for the study area.
- Undertake a comprehensive survey of the study area, identifying any previously recorded sites (on AHIMS).
- Record and assess sites identified during the survey in compliance with the guidelines issued by the OEH.
- Assess the scientific significance of all identified Aboriginal cultural heritage sites and places;

- Identify impacts to all identified Aboriginal cultural heritage sites and places based on potential ground disturbance from the proposed realignment of the road.
- Make recommendations to minimise or mitigate potential impacts of the proposed realignment upon cultural heritage values within the study area.

Consultation with the Aboriginal community

This task will allow the Aboriginal community the opportunity to participate in decisions regarding the management of their cultural heritage by providing proponents information regarding cultural significance and input into management options.

Consultation with Aboriginal stakeholders under the DECCW 2010 consultation guidelines is being undertaken to assist School Infrastructure NSW by:

- providing relevant information about the cultural significance and values of the Aboriginal object(s) and/or place(s) within the study area.
- influencing the design of the method to assess cultural and scientific significance of Aboriginal objects(s) and/or place(s) within the study area.
- actively contributing to the development of cultural heritage management plan options and recommendations for any Aboriginal object(s) and/or place(s) within the proposed study area.
- commenting on the draft assessment reports before they are submitted by the proponent to the determining authority of the proposed realignment.

Aboriginal community consultation will be undertaken in accordance with the consultation requirements which includes:

- **Completed:** Ascertaining the names of Aboriginal people or groups who may hold cultural knowledge relevant to determining the significance of Aboriginal objects and/ or places within the proposed study area. This would include writing to the following:
 - Office of Environment and Heritage (OEH)
 - Local Aboriginal Land Council (LALC)
 - Office of the Registrar (Aboriginal Land Rights Act 1983)
 - National Native Title Tribunal (NNTT)
 - Native Title Services Corporation Limited (NTSCORP Limited)
 - Relevant Local Councils
 - Relevant Catchment Management Authorities
- **Completed:** Bosis will undertake the 'Placement of Notification' (Public Notice) in the *newspaper*, on behalf of Client, that must include details of the proponent, the project, the exact location, and statement of the purpose of the community consultation in preparation for possible test excavations and AHIPs. The Public Notice is also an invitation for Aboriginal people who hold relevant cultural knowledge about the study area. A closing date for the registration must be included and be no less than **14 days. Registration closed on 26 September 2018.**

- **Completed:** Aboriginal people or groups identified would be provided with notification of the proposed project via Biosis and given the opportunity to be involved in consultation. **Registrations of interest closed on 26 September 2018.**
- A list of Aboriginal people or groups who register an interest in the project will be forwarded to the OEHL and the LALC by Biosis no later than **28 days** following close of registration. This list will not include those people or groups who specified that they did not want their details shared with OEHL or the LALC.
- Biosis will provide details of the project and methodology for the archaeological assessment to the registered parties. The registered Aboriginal parties must be given an opportunity to review and provide feedback to the proponent within a minimum of **28 days** of the Biosis providing the methodology document.
- Selected representatives of the registered Aboriginal parties will be given the opportunity to participate in test excavations within the study area.
- The DRAFT ACHAR and Archaeological Report will be provided to all registered Aboriginal parties for comment – the proponent must allow **28 days** for comment. All comments and correspondence sent and received regarding the project will be included in the final report in an Appendix.

Field survey

An Aboriginal archaeological survey of the assessment area was undertaken in September 2018 by Biosis archaeologist Mathew Smith and Duncan Falk of Duncan Falk Consulting. This was undertaken in accordance with the guidelines outlined in the code in order to identify any previously unknown Aboriginal objects, sites or places, should they be present and to inspect previously recorded sites within the study area.

Two existing sites are located within the study area. Chelsea gardens Locale site 1 (AHIMS 52-4-0193) was located in the north eastern corner of the study area and contained artefacts eroding out of a silage pit. The second site was Chelsea gardens Locale site 2 (AHIMS 52-4-0194) and was located on a small knoll in the northern section of the study area. This site consisted of 10 artefacts eroding out soil profile. Both sites contained moderate potential for archaeological deposits.

The survey also identified two areas of moderate Aboriginal archaeological potential within the study area that were not associated with existing sites. These two areas were both located on hill crests. The rest of the study area contained low archaeological potential. These areas consisted of flat and hillslopes landforms, which due to the distance from water, the intensive use of these areas for cropping and livestock grazing and the steep slopes, contained low potential

Test excavation

The survey has identified the need for further assessment in the form of test excavations. This will be undertaken in accordance with the code. Further information on the methodology for this test excavation and the areas of potential archaeological deposit within the study area is available in the project methodology.

Reporting

A draft report will be prepared in accordance with the code and will include:

- Background and project description.
- A summary and analysis of the findings including the presence and location of registered or new identified Aboriginal artefacts or heritage items within the study area.
- A summary of any other relevant studies or surveys which have relevance to the assessment area.
- A summary of the landscape features of the site which may indicate a history of Aboriginal activity.
- A summary of previous land use that may have affected the retention of intact Aboriginal archaeology in the landscape.
- The potential or likelihood for the proposed works to uncover or expose potential undiscovered Aboriginal objects.
- Survey and test excavation results.
- Legislative implications of the proposed works.
- Recommendations and justification for further assessment (if required).
- Mitigation measures (if any) required for the works to proceed.
- Mapping will be carried out to show the location of registered and newly located (if any) Aboriginal sites in relation to the proposed works.

Registered Aboriginal parties will be provided with the draft report for comment and allowed 28 days for review.

The final report will incorporate all comments.

Project schedule

The proposed schedule and broad time allocations for the consultation stages are summarised below.

Action	Timeframe	Notes
Commencement of Aboriginal community consultation – advertising of project, Notification to stakeholders etc.	Completed	Project advertised in <i>Southern Highlands News</i> on 5 September 2018; notices sent to stakeholders 12 September 2018.
Field survey	Completed	Survey undertaken by Biosis archaeologist Mathew Smith and Duncan Falk of Duncan Falk Consultancy in September 2018.
Provision of client-reviewed DRAFT Methodology Document to registered Aboriginal stakeholders for review and comment – these methods will form the basis for all archaeological and cultural heritage work	TBC	28 days review time allowed under OEH Aboriginal community consultation guidelines.
Test excavations	TBC	
Information gathering		Until finalisation of the report

Action	Timeframe	Notes
Review of the draft report	TBC	28 days review time allowed under OEH Aboriginal community consultation guidelines
Completion and finalisation of report	TBC	

Responsibilities and roles

As part of the consultation process registered Aboriginal parties are invited to respond to requests for cultural information and comment on draft reporting, as appropriate in accordance with their role specified in the guidelines (DECCW 2010a, p. 16). Biosis and the proponent, in accordance with their role under the guidelines, will consult with the Aboriginal community by supplying suitable project information and providing the opportunity for Aboriginal stakeholders to provide input into the heritage management process (DECCW 2010a, pp. 16-17).

Each section of the methodology will be undertaken in consultation with the Aboriginal stakeholders. Biosis invites Aboriginal stakeholders to provide culturally appropriate information via mail, email or phone with regards to this project.

Cultural information provided will be recorded in the Aboriginal consultation log and discussed in the report. If the information is regarded as too sensitive to be made public then the Aboriginal stakeholder should advise Biosis and identify the nature of the sensitivity. Biosis will then arrange for the recording of the information in accordance with its sensitivity. Documents which hold sensitive information will clearly list, on the front cover, who can have access to the document. These documents will be stored securely.

References

Department of Environment, Climate Change and Water. 2010a. Code of practice for Archaeological Investigation of Aboriginal Objects in New South Wales 2010. NSW Department of Environment, Climate Change and Water, Sydney NSW.

Department of Environment, Climate Change and Water. 2010b. Aboriginal cultural heritage consultation requirements for proponents 2010. NSW Department of Environment, Climate Change and Water, Sydney NSW.

RE: Moss Vale Aboriginal Cultural Heritage Assessment - Project methodology

Our Ref: Matter 28011

This letter is being provided to all the Registered Aboriginal Parties (RAPs) who registered their interest in the consultation process for the Moss Vale development being undertaken by Aoyuan International (Figure 1, Figure 2).

In accordance with the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010) (consultation requirements), we provide the proposed methodology for the Aboriginal Cultural Heritage Assessment (ACHA) for your review and feedback.

It would be appreciated if you would provide feedback on the methodology presented in this letter to Biosis Pty Ltd by **5 pm 16 November 2018** either by email, phone or return mail.

Please address feedback on the methodology to:

Mathew Smith
Biosis Pty Ltd
8 Tate Street
Wollongong NSW 2500
msmith@biosis.com.au

Please do not hesitate to contact me if you require additional information or have any queries about the methodology or information provided.

Kind regards,

A handwritten signature in blue ink, appearing to read "M. Smith".

Mathew Smith

Archaeologist
msmith@biosis.com.au

Stage 3: Moss Vale Aboriginal Cultural Heritage Assessment: Methodology for test excavations

The following information has been provided in accordance with the consultation requirements. The aim of this document is to provide registered Aboriginal parties (RAPs) with the proposed methodology for the cultural heritage and archaeological assessment.

Biosis Pty Ltd recently completed an archaeological survey of the study area for Aboriginal archaeological heritage for the proposed works. Biosis identified two existing sites with areas of moderate potential and two areas of moderate potential on a crest landform within the study area (Figure 3). The two existing sites consisted of Chelsea Gardens Locale 1, an artefact scatter that was eroding out of a silage pit, and Chelsea Gardens Locale 2, an artefact scatter located eroding out of a small knoll. Both sites contained moderate archaeological potential. The proposed development will impact on these areas of potential, and as such further assessment would be required in the form of subsurface test excavations and an application for an Aboriginal Heritage Impact Permit (AHIP). The proposed methodology is detailed below for these test excavations.

Test excavation methodology

Aims of the sub-surface test excavations

The principle objectives of the subsurface test excavations are to identify and understand the nature, extent and significance of any archaeological sites located within areas of archaeological potential.

The aims of the testing program are to:

- Determine whether sub-surface archaeological deposits exist which may be impacted by the development.
- If so, to determine the extent and nature of such deposits.
- Identify if the archaeological material occurs in an intact, undisturbed context, by examining the soil profile and stratigraphy.
- Analyse and interpret any archaeological finds (such as stone artefacts, shell midden deposits, etc.) recovered during the testing program.
- Inform current knowledge of Aboriginal occupation and land use models of the region.
- Provide management and mitigation measures for Aboriginal archaeological objects located during the subsurface testing program.

Test excavation sampling strategy

Test excavations across the study area will conform to the following methodology:

- Test excavations will be undertaken in areas identified as having the potential to contain Aboriginal cultural material.

- Test excavation units will consist of one 50 cm x 50 cm test pit, in order to determine the nature of sub-surface deposit and presence of any possible archaeological deposits.
- Test excavations units must be excavated using hand tools only including spades, handle shovels, and trowels.
- The first test excavation unit will be excavated and documented in 5 cm spits and all following units. All material excavated from the test excavation units must be sieved using nested 5 mm aperture wire-mesh sieves.
- Test excavation units must be excavated to at least the base of the identified Aboriginal object-bearing units, and must continue to confirm the soils below are culturally sterile.
- All cultural material will be collected, bagged and clearly labelled. They will be temporarily stored in the Biosis office for analysis (at Unit 14, 17-27 Power Avenue, Alexandria).
- The following documentation will be taken for the test pit:
 - Unique test pit identification number.
 - GPS coordinate.
 - Munsell soil colour, texture and pH.
 - Amount and location of cultural material within the deposit.
 - Nature of disturbance where present.
 - Stratigraphy.
 - Archaeological features (if present).
 - Photographic records.
 - Spit records.
- The test excavation unit must be backfilled as soon as practicable due to safety issues.

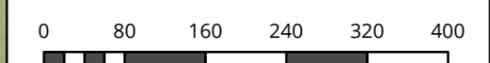
Following test excavation, an Aboriginal Site Recording form must be completed and submitted to the AHIMS Registrar, as soon as practicable, for each AHIMS site that has been identified.

Standard protocol for the discovery of any human remains is to be followed in the event that human remains are discovered.



Legend
 Study area

Figure 1: Study area detail

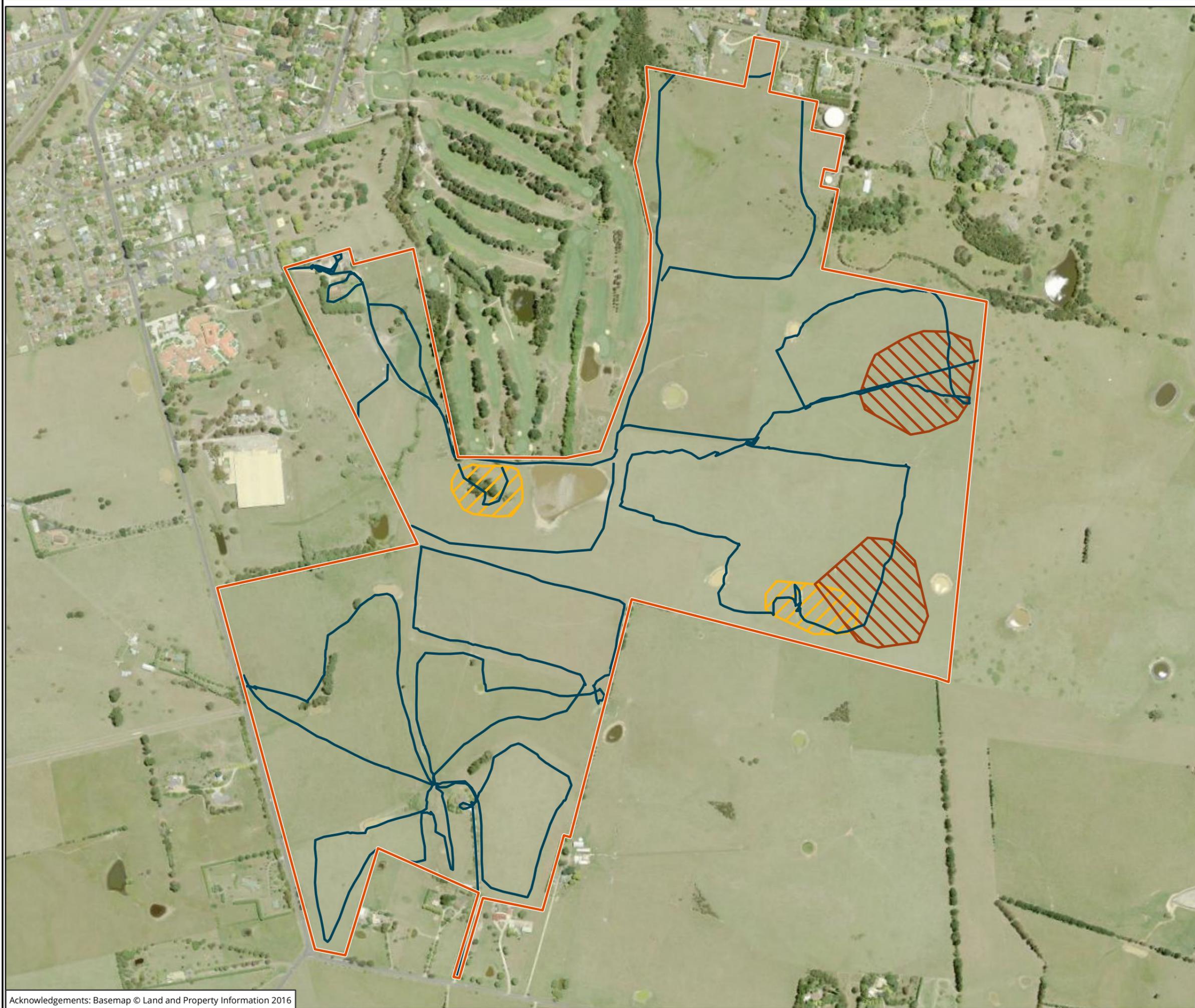


Metres
 Scale: 1:7,000 @ A3
 Coordinate System: GDA 1994 NSW Lambert



biosis
 Biosis Pty Ltd
 Albury, Ballarat, Melbourne,
 Newcastle, Sydney, Wangaratta & Wollongong

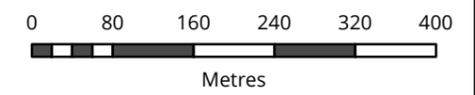
Matter: 28011
 Date: 09 October 2018,
 Checked by: MJS, Drawn by: JSP, Last edited by: lwilson
 Location: P:\28000s\28011\Mapping\28011_F2_StudyArea



Legend

-  Study area
-  Survey tracks
- Survey results**
-  Artefact sites with PAD
-  Moderate potential

Figure 2: Survey results



Scale: 1:7,000 @ A3
 Coordinate System: GDA 1994 NSW Lambert



Albury, Ballarat, Melbourne,
 Newcastle, Sydney, Wangaratta & Wollongong

19 October 2018

Individual

Leanne Tungai

Dear Leanne,

RE: Moss Vale Aboriginal Cultural Heritage Assessment – project information

Our Ref: Matter 28011

Thank you for your registration of interest in this project. We are writing to you in order to provide you with the project information and methodology packs for the proposed development at Lot 3 DP 706194 and Lot 12 DP 866036, Moss Vale, NSW. This information has been provided in accordance with the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010a) (consultation requirements).

In this letter you will find the project information pack and project methodology.

The purpose of the methodology document is to provide you with further information on the background of this assessment, as well as the methodology for how it will be conducted, including the test excavations.

Please note that comments on the project methodology pack should be received before **5 pm 16 November 2018**.

As this project will involve test excavations, the purpose of the second letter is to invite your feedback on the proposed project information and methodology packs, and to assist the proponent in the programming of groups for participation in the test excavations which will be carried out within the study area.

If you have any queries regarding the project or the information in this letter, please don't hesitate to contact us.

Yours sincerely,

Mathew Smith



Archaeologist
msmith@biosis.com.au

Project information

The following information has been provided in accordance with the consultation requirements. The aim of this document is to provide registered Aboriginal parties with information about the proposed project and the scope of the Aboriginal archaeology and cultural heritage investigations and assessment.

Study area

The study area is located at Lot 3 DP 706194 and Lot 12 DP 866036, Moss Vale, NSW, within the Wingecarribee Shire Council Local Government Area (LGA), Parish of Bong Bong, and County of Camden.

Project

Aoyuan International are proposing to develop the study area into a number of residential blocks so Biosis Pty Ltd is assisting Aoyuan International with consultation with the Aboriginal community and the Aboriginal Cultural Heritage Assessment. Consultation with the Aboriginal community will follow the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010). The purpose of the Aboriginal community consultation will be to provide sufficient information for the assessment of Aboriginal cultural heritage values and to inform the Aboriginal Cultural Heritage Assessment (ACHA). This will assist with the possible application for an AHIP, and will assist the Office of Environment and Heritage (OEH) in consideration and determination of the AHIP application.

Aboriginal cultural heritage assessment process

The assessment process includes the following steps:

Background research

Background research has been undertaken in order to identify known Aboriginal sites, areas of potential archaeological sensitivity and previous disturbance, and inform the predictive modelling for the assessment area. Background research will be conducted in line with the requirements of the *Code of Practice for the Investigation of Aboriginal Objects in New South Wales* (DECCW 2010) ('the code'). Background research for the project included the following tasks:

- Conduct heritage register searches to identify previously recorded cultural heritage sites in or within the vicinity of the proposed study area. Searches will include the Aboriginal Heritage Information Management System (AHIMS), the National Heritage List, Commonwealth Heritage List, Register of the National Estate, State Heritage Register, Local Environmental Plan and National Trust heritage lists.
- Conduct additional background research in order to recognise any identifiable regional trends in site distribution and location and provide a site prediction model for the study area.
- Undertake a comprehensive survey of the study area, identifying any previously recorded sites (on AHIMS).
- Record and assess sites identified during the survey in compliance with the guidelines issued by the OEH.
- Assess the scientific significance of all identified Aboriginal cultural heritage sites and places;

- Identify impacts to all identified Aboriginal cultural heritage sites and places based on potential ground disturbance from the proposed realignment of the road.
- Make recommendations to minimise or mitigate potential impacts of the proposed realignment upon cultural heritage values within the study area.

Consultation with the Aboriginal community

This task will allow the Aboriginal community the opportunity to participate in decisions regarding the management of their cultural heritage by providing proponents information regarding cultural significance and input into management options.

Consultation with Aboriginal stakeholders under the DECCW 2010 consultation guidelines is being undertaken to assist School Infrastructure NSW by:

- providing relevant information about the cultural significance and values of the Aboriginal object(s) and/or place(s) within the study area.
- influencing the design of the method to assess cultural and scientific significance of Aboriginal objects(s) and/or place(s) within the study area.
- actively contributing to the development of cultural heritage management plan options and recommendations for any Aboriginal object(s) and/or place(s) within the proposed study area.
- commenting on the draft assessment reports before they are submitted by the proponent to the determining authority of the proposed realignment.

Aboriginal community consultation will be undertaken in accordance with the consultation requirements which includes:

- **Completed:** Ascertaining the names of Aboriginal people or groups who may hold cultural knowledge relevant to determining the significance of Aboriginal objects and/ or places within the proposed study area. This would include writing to the following:
 - Office of Environment and Heritage (OEH)
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- **Completed:** Bosis will undertake the 'Placement of Notification' (Public Notice) in the *newspaper*, on behalf of Client, that must include details of the proponent, the project, the exact location, and statement of the purpose of the community consultation in preparation for possible test excavations and AHIPs. The Public Notice is also an invitation for Aboriginal people who hold relevant cultural knowledge about the study area. A closing date for the registration must be included and be no less than **14 days. Registration closed on 26 September 2018.**

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- A list of Aboriginal people or groups who register an interest in the project will be forwarded to the OEH and the LALC by Biosis no later than **28 days** following close of registration. This list will not include those people or groups who specified that they did not want their details shared with OEH or the LALC.
- Biosis will provide details of the project and methodology for the archaeological assessment to the registered parties. The registered Aboriginal parties must be given an opportunity to review and provide feedback to the proponent within a minimum of **28 days** of the Biosis providing the methodology document.
- Selected representatives of the registered Aboriginal parties will be given the opportunity to participate in test excavations within the study area.
- The DRAFT ACHAR and Archaeological Report will be provided to all registered Aboriginal parties for comment – the proponent must allow **28 days** for comment. All comments and correspondence sent and received regarding the project will be included in the final report in an Appendix.

Field survey

An Aboriginal archaeological survey of the assessment area was undertaken in September 2018 by Biosis archaeologist Mathew Smith and Duncan Falk of Duncan Falk Consulting. This was undertaken in accordance with the guidelines outlined in the code in order to identify any previously unknown Aboriginal objects, sites or places, should they be present and to inspect previously recorded sites within the study area.

Two existing sites are located within the study area. Chelsea gardens Locale site 1 (AHIMS 52-4-0193) was located in the north eastern corner of the study area and contained artefacts eroding out of a silage pit. The second site was Chelsea gardens Locale site 2 (AHIMS 52-4-0194) and was located on a small knoll in the northern section of the study area. This site consisted of 10 artefacts eroding out soil profile. Both sites contained moderate potential for archaeological deposits.

The survey also identified two areas of moderate Aboriginal archaeological potential within the study area that were not associated with existing sites. These two areas were both located on hill crests. The rest of the study area contained low archaeological potential. These areas consisted of flat and hillslopes landforms, which due to the distance from water, the intensive use of these areas for cropping and livestock grazing and the steep slopes, contained low potential

Test excavation

The survey has identified the need for further assessment in the form of test excavations. This will be undertaken in accordance with the code. Further information on the methodology for this test excavation and the areas of potential archaeological deposit within the study area is available in the project methodology.

Reporting

A draft report will be prepared in accordance with the code and will include:

- Background and project description.
- A summary and analysis of the findings including the presence and location of registered or new identified Aboriginal artefacts or heritage items within the study area.
- A summary of any other relevant studies or surveys which have relevance to the assessment area.
- A summary of the landscape features of the site which may indicate a history of Aboriginal activity.
- A summary of previous land use that may have affected the retention of intact Aboriginal archaeology in the landscape.
- The potential or likelihood for the proposed works to uncover or expose potential undiscovered Aboriginal objects.
- Survey and test excavation results.
- Legislative implications of the proposed works.
- Recommendations and justification for further assessment (if required).
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- Mapping will be carried out to show the location of registered and newly located (if any) Aboriginal sites in relation to the proposed works.

Registered Aboriginal parties will be provided with the draft report for comment and allowed 28 days for review.

The final report will incorporate all comments.

Project schedule

The proposed schedule and broad time allocations for the consultation stages are summarised below.

Action	Timeframe	Notes
Commencement of Aboriginal community consultation – advertising of project, Notification to stakeholders etc.	Completed	Project advertised in <i>Southern Highlands News</i> on 5 September 2018; notices sent to stakeholders 12 September 2018.
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Test excavations	TBC	
Information gathering		Until finalisation of the report

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Review of the draft report	TBC	28 days review time allowed under OEH Aboriginal community consultation guidelines
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Responsibilities and roles

As part of the consultation process registered Aboriginal parties are invited to respond to requests for cultural information and comment on draft reporting, as appropriate in accordance with their role specified in the guidelines (DECCW 2010a, p. 16). Biosis and the proponent, in accordance with their role under the guidelines, will consult with the Aboriginal community by supplying suitable project information and providing the opportunity for Aboriginal stakeholders to provide input into the heritage management process (DECCW 2010a, pp. 16-17).

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Department of Environment, Climate Change and Water. 2010b. Aboriginal cultural heritage consultation requirements for proponents 2010. NSW Department of Environment, Climate Change and Water, Sydney NSW.

RE: Moss Vale Aboriginal Cultural Heritage Assessment - Project methodology

Our Ref: Matter 28011

This letter is being provided to all the Registered Aboriginal Parties (RAPs) who registered their interest in the consultation process for the Moss Vale development being undertaken by Aoyuan International (Figure 1, Figure 2).

In accordance with the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010) (consultation requirements), we provide the proposed methodology for the Aboriginal Cultural Heritage Assessment (ACHA) for your review and feedback.

It would be appreciated if you would provide feedback on the methodology presented in this letter to Biosis Pty Ltd by **5 pm 16 November 2018** either by email, phone or return mail.

Please address feedback on the methodology to:

Mathew Smith
Biosis Pty Ltd
8 Tate Street
Wollongong NSW 2500
msmith@biosis.com.au

Please do not hesitate to contact me if you require additional information or have any queries about the methodology or information provided.

Kind regards,

A handwritten signature in blue ink that reads 'M Smith'.

Mathew Smith

Archaeologist
msmith@biosis.com.au

Stage 3: Moss Vale Aboriginal Cultural Heritage Assessment: Methodology for test excavations

The following information has been provided in accordance with the consultation requirements. The aim of this document is to provide registered Aboriginal parties (RAPs) with the proposed methodology for the cultural heritage and archaeological assessment.

Biosis Pty Ltd recently completed an archaeological survey of the study area for Aboriginal archaeological heritage for the proposed works. Biosis identified two existing sites with areas of moderate potential and two areas of moderate potential on a crest landform within the study area (Figure 3). The two existing sites consisted of Chelsea Gardens Locale 1, an artefact scatter that was eroding out of a silage pit, and Chelsea Gardens Locale 2, an artefact scatter located eroding out of a small knoll. Both sites contained moderate archaeological potential. The proposed development will impact on these areas of potential, and as such further assessment would be required in the form of subsurface test excavations and an application for an Aboriginal Heritage Impact Permit (AHIP). The proposed methodology is detailed below for these test excavations.

Test excavation methodology

Aims of the sub-surface test excavations

The principle objectives of the subsurface test excavations are to identify and understand the nature, extent and significance of any archaeological sites located within areas of archaeological potential.

The aims of the testing program are to:

- Determine whether sub-surface archaeological deposits exist which may be impacted by the development.
- If so, to determine the extent and nature of such deposits.
- Identify if the archaeological material occurs in an intact, undisturbed context, by examining the soil profile and stratigraphy.
- Analyse and interpret any archaeological finds (such as stone artefacts, shell midden deposits, etc.) recovered during the testing program.
- Inform current knowledge of Aboriginal occupation and land use models of the region.
- Provide management and mitigation measures for Aboriginal archaeological objects located during the subsurface testing program.

Test excavation sampling strategy

Test excavations across the study area will conform to the following methodology:

- Test excavations will be undertaken in areas identified as having the potential to contain Aboriginal cultural material.

- Test excavation units will consist of one 50 cm x 50 cm test pit, in order to determine the nature of sub-surface deposit and presence of any possible archaeological deposits.
- Test excavations units must be excavated using hand tools only including spades, handle shovels, and trowels.
- The first test excavation unit will be excavated and documented in 5 cm spits and all following units. All material excavated from the test excavation units must be sieved using nested 5 mm aperture wire-mesh sieves.
- Test excavation units must be excavated to at least the base of the identified Aboriginal object-bearing units, and must continue to confirm the soils below are culturally sterile.
- All cultural material will be collected, bagged and clearly labelled. They will be temporarily stored in the Biosis office for analysis (at Unit 14, 17-27 Power Avenue, Alexandria).
- The following documentation will be taken for the test pit:
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 - Amount and location of cultural material within the deposit.
 - Nature of disturbance where present.
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 - Archaeological features (if present).
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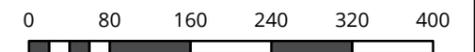
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Standard protocol for the discovery of any human remains is to be followed in the event that human remains are discovered.



Legend
 Study area

Figure 1: Study area detail



Metres
 Scale: 1:7,000 @ A3
 Coordinate System: GDA 1994 NSW Lambert



Albury, Ballarat, Melbourne,
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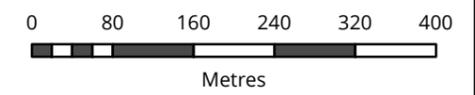
Matter: 28011
 Date: 09 October 2018,
 Checked by: MJS, Drawn by: JSP, Last edited by: lwilson
 Location: P:\28000s\28011\Mapping\28011_F2_StudyArea



Legend

-  Study area
-  Survey tracks
- Survey results**
-  Artefact sites with PAD
-  Moderate potential

Figure 2: Survey results



Scale: 1:7,000 @ A3
Coordinate System: GDA 1994 NSW Lambert



Albury, Ballarat, Melbourne,
Newcastle, Sydney, Wangaratta & Wollongong

Matter: 28011
Date: 09 October 2018,
Checked by: MJS, Drawn by: JSP, Last edited by: lwilson
Location: P:\28000s\28011\Mapping\28011_F6_SurveyResults

19 October 2018

Woronora Plateau Gundungara Elders Council

Kayla Williamson

11 Garnet Grove

Flinders NSW 2529

Dear Kayla,

RE: Moss Vale Aboriginal Cultural Heritage Assessment - project information

Our Ref: Matter 28011

Thank you for your registration of interest in this project. We are writing to you in order to provide you with the project information and methodology packs for the proposed development at Lot 3 DP 706194 and Lot 12 DP 866036, Moss Vale, NSW. This information has been provided in accordance with the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010a) (consultation requirements).

In this letter you will find the project information pack and project methodology.

The purpose of the methodology document is to provide you with further information on the background of this assessment, as well as the methodology for how it will be conducted, including the test excavations.

Please note that comments on the project methodology pack should be received before **5 pm 16 November 2018**.

As this project will involve test excavations, the purpose of the second letter is to invite your feedback on the proposed project information and methodology packs, and to assist the proponent in the programming of groups for participation in the test excavations which will be carried out within the study area.

If you have any queries regarding the project or the information in this letter, please don't hesitate to contact us.

Yours sincerely,

Mathew Smith



Archaeologist
msmith@biosis.com.au

Project information

The following information has been provided in accordance with the consultation requirements. The aim of this document is to provide registered Aboriginal parties with information about the proposed project and the scope of the Aboriginal archaeology and cultural heritage investigations and assessment.

Study area

The study area is located at Lot 3 DP 706194 and Lot 12 DP 866036, Moss Vale, NSW, within the Wingecarribee Shire Council Local Government Area (LGA), Parish of Bong Bong, and County of Camden.

Project

Aoyuan International are proposing to develop the study area into a number of residential blocks so Biosis Pty Ltd is assisting Aoyuan International with consultation with the Aboriginal community and the Aboriginal Cultural Heritage Assessment. Consultation with the Aboriginal community will follow the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010). The purpose of the Aboriginal community consultation will be to provide sufficient information for the assessment of Aboriginal cultural heritage values and to inform the Aboriginal Cultural Heritage Assessment (ACHA). This will assist with the possible application for an AHIP, and will assist the Office of Environment and Heritage (OEH) in consideration and determination of the AHIP application.

Aboriginal cultural heritage assessment process

The assessment process includes the following steps:

Background research

Background research has been undertaken in order to identify known Aboriginal sites, areas of potential archaeological sensitivity and previous disturbance, and inform the predictive modelling for the assessment area. Background research will be conducted in line with the requirements of the *Code of Practice for the Investigation of Aboriginal Objects in New South Wales* (DECCW 2010) ('the code'). Background research for the project included the following tasks:

- Conduct heritage register searches to identify previously recorded cultural heritage sites in or within the vicinity of the proposed study area. Searches will include the Aboriginal Heritage Information Management System (AHIMS), the National Heritage List, Commonwealth Heritage List, Register of the National Estate, State Heritage Register, Local Environmental Plan and National Trust heritage lists.
- Conduct additional background research in order to recognise any identifiable regional trends in site distribution and location and provide a site prediction model for the study area.
- Undertake a comprehensive survey of the study area, identifying any previously recorded sites (on AHIMS).
- Record and assess sites identified during the survey in compliance with the guidelines issued by the OEH.
- Assess the scientific significance of all identified Aboriginal cultural heritage sites and places;

- Identify impacts to all identified Aboriginal cultural heritage sites and places based on potential ground disturbance from the proposed realignment of the road.
- Make recommendations to minimise or mitigate potential impacts of the proposed realignment upon cultural heritage values within the study area.

Consultation with the Aboriginal community

This task will allow the Aboriginal community the opportunity to participate in decisions regarding the management of their cultural heritage by providing proponents information regarding cultural significance and input into management options.

Consultation with Aboriginal stakeholders under the DECCW 2010 consultation guidelines is being undertaken to assist School Infrastructure NSW by:

- providing relevant information about the cultural significance and values of the Aboriginal object(s) and/or place(s) within the study area.
- influencing the design of the method to assess cultural and scientific significance of Aboriginal objects(s) and/or place(s) within the study area.
- actively contributing to the development of cultural heritage management plan options and recommendations for any Aboriginal object(s) and/or place(s) within the proposed study area.
- commenting on the draft assessment reports before they are submitted by the proponent to the determining authority of the proposed realignment.

Aboriginal community consultation will be undertaken in accordance with the consultation requirements which includes:

- **Completed:** Ascertaining the names of Aboriginal people or groups who may hold cultural knowledge relevant to determining the significance of Aboriginal objects and/ or places within the proposed study area. This would include writing to the following:
 - Office of Environment and Heritage (OEH)
 - Local Aboriginal Land Council (LALC)
 - Office of the Registrar (Aboriginal Land Rights Act 1983)
 - National Native Title Tribunal (NNTT)
 - Native Title Services Corporation Limited (NTSCORP Limited)
 - Relevant Local Councils
 - Relevant Catchment Management Authorities
- **Completed:** Bosis will undertake the 'Placement of Notification' (Public Notice) in the *newspaper*, on behalf of Client, that must include details of the proponent, the project, the exact location, and statement of the purpose of the community consultation in preparation for possible test excavations and AHIPs. The Public Notice is also an invitation for Aboriginal people who hold relevant cultural knowledge about the study area. A closing date for the registration must be included and be no less than **14 days. Registration closed on 26 September 2018.**

- **Completed:** Aboriginal people or groups identified would be provided with notification of the proposed project via Biosis and given the opportunity to be involved in consultation. **Registrations of interest closed on 26 September 2018.**
- A list of Aboriginal people or groups who register an interest in the project will be forwarded to the OEH and the LALC by Biosis no later than **28 days** following close of registration. This list will not include those people or groups who specified that they did not want their details shared with OEH or the LALC.
- Biosis will provide details of the project and methodology for the archaeological assessment to the registered parties. The registered Aboriginal parties must be given an opportunity to review and provide feedback to the proponent within a minimum of **28 days** of the Biosis providing the methodology document.
- Selected representatives of the registered Aboriginal parties will be given the opportunity to participate in test excavations within the study area.
- The DRAFT ACHAR and Archaeological Report will be provided to all registered Aboriginal parties for comment – the proponent must allow **28 days** for comment. All comments and correspondence sent and received regarding the project will be included in the final report in an Appendix.

Field survey

An Aboriginal archaeological survey of the assessment area was undertaken in September 2018 by Biosis archaeologist Mathew Smith and Duncan Falk of Duncan Falk Consulting. This was undertaken in accordance with the guidelines outlined in the code in order to identify any previously unknown Aboriginal objects, sites or places, should they be present and to inspect previously recorded sites within the study area.

Two existing sites are located within the study area. Chelsea gardens Locale site 1 (AHIMS 52-4-0193) was located in the north eastern corner of the study area and contained artefacts eroding out of a silage pit. The second site was Chelsea gardens Locale site 2 (AHIMS 52-4-0194) and was located on a small knoll in the northern section of the study area. This site consisted of 10 artefacts eroding out soil profile. Both sites contained moderate potential for archaeological deposits.

The survey also identified two areas of moderate Aboriginal archaeological potential within the study area that were not associated with existing sites. These two areas were both located on hill crests. The rest of the study area contained low archaeological potential. These areas consisted of flat and hillslopes landforms, which due to the distance from water, the intensive use of these areas for cropping and livestock grazing and the steep slopes, contained low potential

Test excavation

The survey has identified the need for further assessment in the form of test excavations. This will be undertaken in accordance with the code. Further information on the methodology for this test excavation and the areas of potential archaeological deposit within the study area is available in the project methodology.

Reporting

A draft report will be prepared in accordance with the code and will include:

- Background and project description.
- A summary and analysis of the findings including the presence and location of registered or new identified Aboriginal artefacts or heritage items within the study area.
- A summary of any other relevant studies or surveys which have relevance to the assessment area.
- A summary of the landscape features of the site which may indicate a history of Aboriginal activity.
- A summary of previous land use that may have affected the retention of intact Aboriginal archaeology in the landscape.
- The potential or likelihood for the proposed works to uncover or expose potential undiscovered Aboriginal objects.
- Survey and test excavation results.
- Legislative implications of the proposed works.
- Recommendations and justification for further assessment (if required).
- Mitigation measures (if any) required for the works to proceed.
- Mapping will be carried out to show the location of registered and newly located (if any) Aboriginal sites in relation to the proposed works.

Registered Aboriginal parties will be provided with the draft report for comment and allowed 28 days for review.

The final report will incorporate all comments.

Project schedule

The proposed schedule and broad time allocations for the consultation stages are summarised below.

Action	Timeframe	Notes
Commencement of Aboriginal community consultation – advertising of project, Notification to stakeholders etc.	Completed	Project advertised in <i>Southern Highlands News</i> on 5 September 2018; notices sent to stakeholders 12 September 2018.
Field survey	Completed	Survey undertaken by Biosis archaeologist Mathew Smith and Duncan Falk of Duncan Falk Consultancy in September 2018.
Provision of client-reviewed DRAFT Methodology Document to registered Aboriginal stakeholders for review and comment – these methods will form the basis for all archaeological and cultural heritage work	TBC	28 days review time allowed under OEH Aboriginal community consultation guidelines.
Test excavations	TBC	
Information gathering		Until finalisation of the report

Action	Timeframe	Notes
Review of the draft report	TBC	28 days review time allowed under OEH Aboriginal community consultation guidelines
Completion and finalisation of report	TBC	

Responsibilities and roles

As part of the consultation process registered Aboriginal parties are invited to respond to requests for cultural information and comment on draft reporting, as appropriate in accordance with their role specified in the guidelines (DECCW 2010a, p. 16). Biosis and the proponent, in accordance with their role under the guidelines, will consult with the Aboriginal community by supplying suitable project information and providing the opportunity for Aboriginal stakeholders to provide input into the heritage management process (DECCW 2010a, pp. 16-17).

Each section of the methodology will be undertaken in consultation with the Aboriginal stakeholders. Biosis invites Aboriginal stakeholders to provide culturally appropriate information via mail, email or phone with regards to this project.

Cultural information provided will be recorded in the Aboriginal consultation log and discussed in the report. If the information is regarded as too sensitive to be made public then the Aboriginal stakeholder should advise Biosis and identify the nature of the sensitivity. Biosis will then arrange for the recording of the information in accordance with its sensitivity. Documents which hold sensitive information will clearly list, on the front cover, who can have access to the document. These documents will be stored securely.

References

Department of Environment, Climate Change and Water. 2010a. Code of practice for Archaeological Investigation of Aboriginal Objects in New South Wales 2010. NSW Department of Environment, Climate Change and Water, Sydney NSW.

Department of Environment, Climate Change and Water. 2010b. Aboriginal cultural heritage consultation requirements for proponents 2010. NSW Department of Environment, Climate Change and Water, Sydney NSW.

RE: Moss Vale Aboriginal Cultural Heritage Assessment - Project methodology

Our Ref: Matter 28011

This letter is being provided to all the Registered Aboriginal Parties (RAPs) who registered their interest in the consultation process for the Moss Vale development being undertaken by Aoyuan International (Figure 1, Figure 2).

In accordance with the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010) (consultation requirements), we provide the proposed methodology for the Aboriginal Cultural Heritage Assessment (ACHA) for your review and feedback.

It would be appreciated if you would provide feedback on the methodology presented in this letter to Biosis Pty Ltd by **5 pm 16 November 2018** either by email, phone or return mail.

Please address feedback on the methodology to:

Mathew Smith
Biosis Pty Ltd
8 Tate Street
Wollongong NSW 2500
msmith@biosis.com.au

Please do not hesitate to contact me if you require additional information or have any queries about the methodology or information provided.

Kind regards,

A handwritten signature in blue ink, appearing to read 'M Smith'.

Mathew Smith

Archaeologist
msmith@biosis.com.au

Stage 3: Moss Vale Aboriginal Cultural Heritage Assessment: Methodology for test excavations

The following information has been provided in accordance with the consultation requirements. The aim of this document is to provide registered Aboriginal parties (RAPs) with the proposed methodology for the cultural heritage and archaeological assessment.

Biosis Pty Ltd recently completed an archaeological survey of the study area for Aboriginal archaeological heritage for the proposed works. Biosis identified two existing sites with areas of moderate potential and two areas of moderate potential on a crest landform within the study area (Figure 3). The two existing sites consisted of Chelsea Gardens Locale 1, an artefact scatter that was eroding out of a silage pit, and Chelsea Gardens Locale 2, an artefact scatter located eroding out of a small knoll. Both sites contained moderate archaeological potential. The proposed development will impact on these areas of potential, and as such further assessment would be required in the form of subsurface test excavations and an application for an Aboriginal Heritage Impact Permit (AHIP). The proposed methodology is detailed below for these test excavations.

Test excavation methodology

Aims of the sub-surface test excavations

The principle objectives of the subsurface test excavations are to identify and understand the nature, extent and significance of any archaeological sites located within areas of archaeological potential.

The aims of the testing program are to:

- Determine whether sub-surface archaeological deposits exist which may be impacted by the development.
- If so, to determine the extent and nature of such deposits.
- Identify if the archaeological material occurs in an intact, undisturbed context, by examining the soil profile and stratigraphy.
- Analyse and interpret any archaeological finds (such as stone artefacts, shell midden deposits, etc.) recovered during the testing program.
- Inform current knowledge of Aboriginal occupation and land use models of the region.
- Provide management and mitigation measures for Aboriginal archaeological objects located during the subsurface testing program.

Test excavation sampling strategy

Test excavations across the study area will conform to the following methodology:

- Test excavations will be undertaken in areas identified as having the potential to contain Aboriginal cultural material.

- Test excavation units will consist of one 50 cm x 50 cm test pit, in order to determine the nature of sub-surface deposit and presence of any possible archaeological deposits.
- Test excavations units must be excavated using hand tools only including spades, handle shovels, and trowels.
- The first test excavation unit will be excavated and documented in 5 cm spits and all following units. All material excavated from the test excavation units must be sieved using nested 5 mm aperture wire-mesh sieves.
- Test excavation units must be excavated to at least the base of the identified Aboriginal object-bearing units, and must continue to confirm the soils below are culturally sterile.
- All cultural material will be collected, bagged and clearly labelled. They will be temporarily stored in the Biosis office for analysis (at Unit 14, 17-27 Power Avenue, Alexandria).
- The following documentation will be taken for the test pit:
 - Unique test pit identification number.
 - GPS coordinate.
 - Munsell soil colour, texture and pH.
 - Amount and location of cultural material within the deposit.
 - Nature of disturbance where present.
 - Stratigraphy.
 - Archaeological features (if present).
 - Photographic records.
 - Spit records.
- The test excavation unit must be backfilled as soon as practicable due to safety issues.

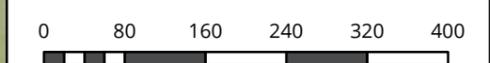
Following test excavation, an Aboriginal Site Recording form must be completed and submitted to the AHIMS Registrar, as soon as practicable, for each AHIMS site that has been identified.

Standard protocol for the discovery of any human remains is to be followed in the event that human remains are discovered.



Legend
 Study area

Figure 1: Study area detail



Metres
 Scale: 1:7,000 @ A3
 Coordinate System: GDA 1994 NSW Lambert



biosis
 Biosis Pty Ltd
 Albury, Ballarat, Melbourne,
 Newcastle, Sydney, Wangaratta & Wollongong

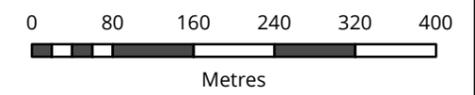
Matter: 28011
 Date: 09 October 2018,
 Checked by: MJS, Drawn by: JSP, Last edited by: lwilson
 Location: P:\28000s\28011\mapping\28011_F2_StudyArea



Legend

-  Study area
-  Survey tracks
- Survey results**
-  Artefact sites with PAD
-  Moderate potential

Figure 2: Survey results



Scale: 1:7,000 @ A3
 Coordinate System: GDA 1994 NSW Lambert



Albury, Ballarat, Melbourne,
 Newcastle, Sydney, Wangaratta & Wollongong

Matter: 28011
 Date: 09 October 2018,
 Checked by: MJS, Drawn by: JSP, Last edited by: lwilson
 Location: P:\28000s\28011\Mapping\28011_F6_SurveyResults

19 October 2018

Duncan Falk Consultancy

Duncan Falk

34 Robina Drive

Bowral NSW 2576

Dear Duncan,

RE: Moss Vale Aboriginal Cultural Heritage Assessment - project information

Our Ref: Matter 28011

Thank you for your registration of interest in this project. We are writing to you in order to provide you with the project information and methodology packs for the proposed development at Lot 3 DP 706194 and Lot 12 DP 866036, Moss Vale, NSW. This information has been provided in accordance with the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010a) (consultation requirements).

In this letter you will find the project information pack and project methodology.

The purpose of the methodology document is to provide you with further information on the background of this assessment, as well as the methodology for how it will be conducted, including the test excavations.

Please note that comments on the project methodology pack should be received before **5 pm 16 November 2018**.

As this project will involve test excavations, the purpose of the second letter is to invite your feedback on the proposed project information and methodology packs, and to assist the proponent in the programming of groups for participation in the test excavations which will be carried out within the study area.

If you have any queries regarding the project or the information in this letter, please don't hesitate to contact us.

Yours sincerely,

Mathew Smith



Archaeologist
msmith@biosis.com.au

Project information

The following information has been provided in accordance with the consultation requirements. The aim of this document is to provide registered Aboriginal parties with information about the proposed project and the scope of the Aboriginal archaeology and cultural heritage investigations and assessment.

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The study area is located at Lot 3 DP 706194 and Lot 12 DP 866036, Moss Vale, NSW, within the Wingecarribee Shire Council Local Government Area (LGA), Parish of Bong Bong, and County of Camden.

Project

Aoyuan International are proposing to develop the study area into a number of residential blocks so Biosis Pty Ltd is assisting Aoyuan International with consultation with the Aboriginal community and the Aboriginal Cultural Heritage Assessment. Consultation with the Aboriginal community will follow the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010). The purpose of the Aboriginal community consultation will be to provide sufficient information for the assessment of Aboriginal cultural heritage values and to inform the Aboriginal Cultural Heritage Assessment (ACHA). This will assist with the possible application for an AHIP, and will assist the Office of Environment and Heritage (OEH) in consideration and determination of the AHIP application.

Aboriginal cultural heritage assessment process

The assessment process includes the following steps:

Background research

Background research has been undertaken in order to identify known Aboriginal sites, areas of potential archaeological sensitivity and previous disturbance, and inform the predictive modelling for the assessment area. Background research will be conducted in line with the requirements of the *Code of Practice for the Investigation of Aboriginal Objects in New South Wales* (DECCW 2010) ('the code'). Background research for the project included the following tasks:

- Conduct heritage register searches to identify previously recorded cultural heritage sites in or within the vicinity of the proposed study area. Searches will include the Aboriginal Heritage Information Management System (AHIMS), the National Heritage List, Commonwealth Heritage List, Register of the National Estate, State Heritage Register, Local Environmental Plan and National Trust heritage lists.
- Conduct additional background research in order to recognise any identifiable regional trends in site distribution and location and provide a site prediction model for the study area.
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- Record and assess sites identified during the survey in compliance with the guidelines issued by the OEH.
- Assess the scientific significance of all identified Aboriginal cultural heritage sites and places;

- Identify impacts to all identified Aboriginal cultural heritage sites and places based on potential ground disturbance from the proposed realignment of the road.
- Make recommendations to minimise or mitigate potential impacts of the proposed realignment upon cultural heritage values within the study area.

Consultation with the Aboriginal community

This task will allow the Aboriginal community the opportunity to participate in decisions regarding the management of their cultural heritage by providing proponents information regarding cultural significance and input into management options.

Consultation with Aboriginal stakeholders under the DECCW 2010 consultation guidelines is being undertaken to assist School Infrastructure NSW by:

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- influencing the design of the method to assess cultural and scientific significance of Aboriginal objects(s) and/or place(s) within the study area.
- actively contributing to the development of cultural heritage management plan options and recommendations for any Aboriginal object(s) and/or place(s) within the proposed study area.
- commenting on the draft assessment reports before they are submitted by the proponent to the determining authority of the proposed realignment.

Aboriginal community consultation will be undertaken in accordance with the consultation requirements which includes:

- **Completed:** Ascertaining the names of Aboriginal people or groups who may hold cultural knowledge relevant to determining the significance of Aboriginal objects and/ or places within the proposed study area. This would include writing to the following:
 - Office of Environment and Heritage (OEH)
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- Selected representatives of the registered Aboriginal parties will be given the opportunity to participate in test excavations within the study area.
- The DRAFT ACHAR and Archaeological Report will be provided to all registered Aboriginal parties for comment – the proponent must allow **28 days** for comment. All comments and correspondence sent and received regarding the project will be included in the final report in an Appendix.

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An Aboriginal archaeological survey of the assessment area was undertaken in September 2018 by Biosis archaeologist Mathew Smith and Duncan Falk of Duncan Falk Consulting. This was undertaken in accordance with the guidelines outlined in the code in order to identify any previously unknown Aboriginal objects, sites or places, should they be present and to inspect previously recorded sites within the study area.

Two existing sites are located within the study area. Chelsea gardens Locale site 1 (AHIMS 52-4-0193) was located in the north eastern corner of the study area and contained artefacts eroding out of a silage pit. The second site was Chelsea gardens Locale site 2 (AHIMS 52-4-0194) and was located on a small knoll in the northern section of the study area. This site consisted of 10 artefacts eroding out soil profile. Both sites contained moderate potential for archaeological deposits.

The survey also identified two areas of moderate Aboriginal archaeological potential within the study area that were not associated with existing sites. These two areas were both located on hill crests. The rest of the study area contained low archaeological potential. These areas consisted of flat and hillslopes landforms, which due to the distance from water, the intensive use of these areas for cropping and livestock grazing and the steep slopes, contained low potential

Test excavation

The survey has identified the need for further assessment in the form of test excavations. This will be undertaken in accordance with the code. Further information on the methodology for this test excavation and the areas of potential archaeological deposit within the study area is available in the project methodology.

Reporting

A draft report will be prepared in accordance with the code and will include:

- Background and project description.
- A summary and analysis of the findings including the presence and location of registered or new identified Aboriginal artefacts or heritage items within the study area.
- A summary of any other relevant studies or surveys which have relevance to the assessment area.
- A summary of the landscape features of the site which may indicate a history of Aboriginal activity.
- A summary of previous land use that may have affected the retention of intact Aboriginal archaeology in the landscape.
- The potential or likelihood for the proposed works to uncover or expose potential undiscovered Aboriginal objects.
- Survey and test excavation results.
- Legislative implications of the proposed works.
- Recommendations and justification for further assessment (if required).
- Mitigation measures (if any) required for the works to proceed.
- Mapping will be carried out to show the location of registered and newly located (if any) Aboriginal sites in relation to the proposed works.

Registered Aboriginal parties will be provided with the draft report for comment and allowed 28 days for review.

The final report will incorporate all comments.

Project schedule

The proposed schedule and broad time allocations for the consultation stages are summarised below.

Action	Timeframe	Notes
Commencement of Aboriginal community consultation – advertising of project, Notification to stakeholders etc.	Completed	Project advertised in <i>Southern Highlands News</i> on 5 September 2018; notices sent to stakeholders 12 September 2018.
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Test excavations	TBC	
Information gathering		Until finalisation of the report

Action	Timeframe	Notes
Review of the draft report	TBC	28 days review time allowed under OEH Aboriginal community consultation guidelines
Completion and finalisation of report	TBC	

Responsibilities and roles

As part of the consultation process registered Aboriginal parties are invited to respond to requests for cultural information and comment on draft reporting, as appropriate in accordance with their role specified in the guidelines (DECCW 2010a, p. 16). Biosis and the proponent, in accordance with their role under the guidelines, will consult with the Aboriginal community by supplying suitable project information and providing the opportunity for Aboriginal stakeholders to provide input into the heritage management process (DECCW 2010a, pp. 16-17).

Each section of the methodology will be undertaken in consultation with the Aboriginal stakeholders. Biosis invites Aboriginal stakeholders to provide culturally appropriate information via mail, email or phone with regards to this project.

Cultural information provided will be recorded in the Aboriginal consultation log and discussed in the report. If the information is regarded as too sensitive to be made public then the Aboriginal stakeholder should advise Biosis and identify the nature of the sensitivity. Biosis will then arrange for the recording of the information in accordance with its sensitivity. Documents which hold sensitive information will clearly list, on the front cover, who can have access to the document. These documents will be stored securely.

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RE: Moss Vale Aboriginal Cultural Heritage Assessment - Project methodology

Our Ref: Matter 28011

This letter is being provided to all the Registered Aboriginal Parties (RAPs) who registered their interest in the consultation process for the Moss Vale development being undertaken by Aoyuan International (Figure 1, Figure 2).

In accordance with the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010) (consultation requirements), we provide the proposed methodology for the Aboriginal Cultural Heritage Assessment (ACHA) for your review and feedback.

It would be appreciated if you would provide feedback on the methodology presented in this letter to Biosis Pty Ltd by **5 pm 16 November 2018** either by email, phone or return mail.

Please address feedback on the methodology to:

Mathew Smith
Biosis Pty Ltd
8 Tate Street
Wollongong NSW 2500
msmith@biosis.com.au

Please do not hesitate to contact me if you require additional information or have any queries about the methodology or information provided.

Kind regards,

A handwritten signature in blue ink that reads "M Smith".

Mathew Smith

Archaeologist
msmith@biosis.com.au

Stage 3: Moss Vale Aboriginal Cultural Heritage Assessment: Methodology for test excavations

The following information has been provided in accordance with the consultation requirements. The aim of this document is to provide registered Aboriginal parties (RAPs) with the proposed methodology for the cultural heritage and archaeological assessment.

Biosis Pty Ltd recently completed an archaeological survey of the study area for Aboriginal archaeological heritage for the proposed works. Biosis identified two existing sites with areas of moderate potential and two areas of moderate potential on a crest landform within the study area (Figure 3). The two existing sites consisted of Chelsea Gardens Locale 1, an artefact scatter that was eroding out of a silage pit, and Chelsea Gardens Locale 2, an artefact scatter located eroding out of a small knoll. Both sites contained moderate archaeological potential. The proposed development will impact on these areas of potential, and as such further assessment would be required in the form of subsurface test excavations and an application for an Aboriginal Heritage Impact Permit (AHIP). The proposed methodology is detailed below for these test excavations.

Test excavation methodology

Aims of the sub-surface test excavations

The principle objectives of the subsurface test excavations are to identify and understand the nature, extent and significance of any archaeological sites located within areas of archaeological potential.

The aims of the testing program are to:

- Determine whether sub-surface archaeological deposits exist which may be impacted by the development.
- If so, to determine the extent and nature of such deposits.
- Identify if the archaeological material occurs in an intact, undisturbed context, by examining the soil profile and stratigraphy.
- Analyse and interpret any archaeological finds (such as stone artefacts, shell midden deposits, etc.) recovered during the testing program.
- Inform current knowledge of Aboriginal occupation and land use models of the region.
- Provide management and mitigation measures for Aboriginal archaeological objects located during the subsurface testing program.

Test excavation sampling strategy

Test excavations across the study area will conform to the following methodology:

- Test excavations will be undertaken in areas identified as having the potential to contain Aboriginal cultural material.

- Test excavation units will consist of one 50 cm x 50 cm test pit, in order to determine the nature of sub-surface deposit and presence of any possible archaeological deposits.
- Test excavations units must be excavated using hand tools only including spades, handle shovels, and trowels.
- The first test excavation unit will be excavated and documented in 5 cm spits and all following units. All material excavated from the test excavation units must be sieved using nested 5 mm aperture wire-mesh sieves.
- Test excavation units must be excavated to at least the base of the identified Aboriginal object-bearing units, and must continue to confirm the soils below are culturally sterile.
- All cultural material will be collected, bagged and clearly labelled. They will be temporarily stored in the Biosis office for analysis (at Unit 14, 17-27 Power Avenue, Alexandria).
- The following documentation will be taken for the test pit:
 - Unique test pit identification number.
 - GPS coordinate.
 - Munsell soil colour, texture and pH.
 - Amount and location of cultural material within the deposit.
 - Nature of disturbance where present.
 - Stratigraphy.
 - Archaeological features (if present).
 - Photographic records.
 - Spit records.
- The test excavation unit must be backfilled as soon as practicable due to safety issues.

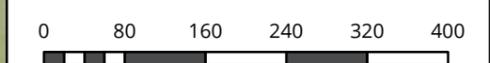
Following test excavation, an Aboriginal Site Recording form must be completed and submitted to the AHIMS Registrar, as soon as practicable, for each AHIMS site that has been identified.

Standard protocol for the discovery of any human remains is to be followed in the event that human remains are discovered.



Legend
 Study area

Figure 1: Study area detail

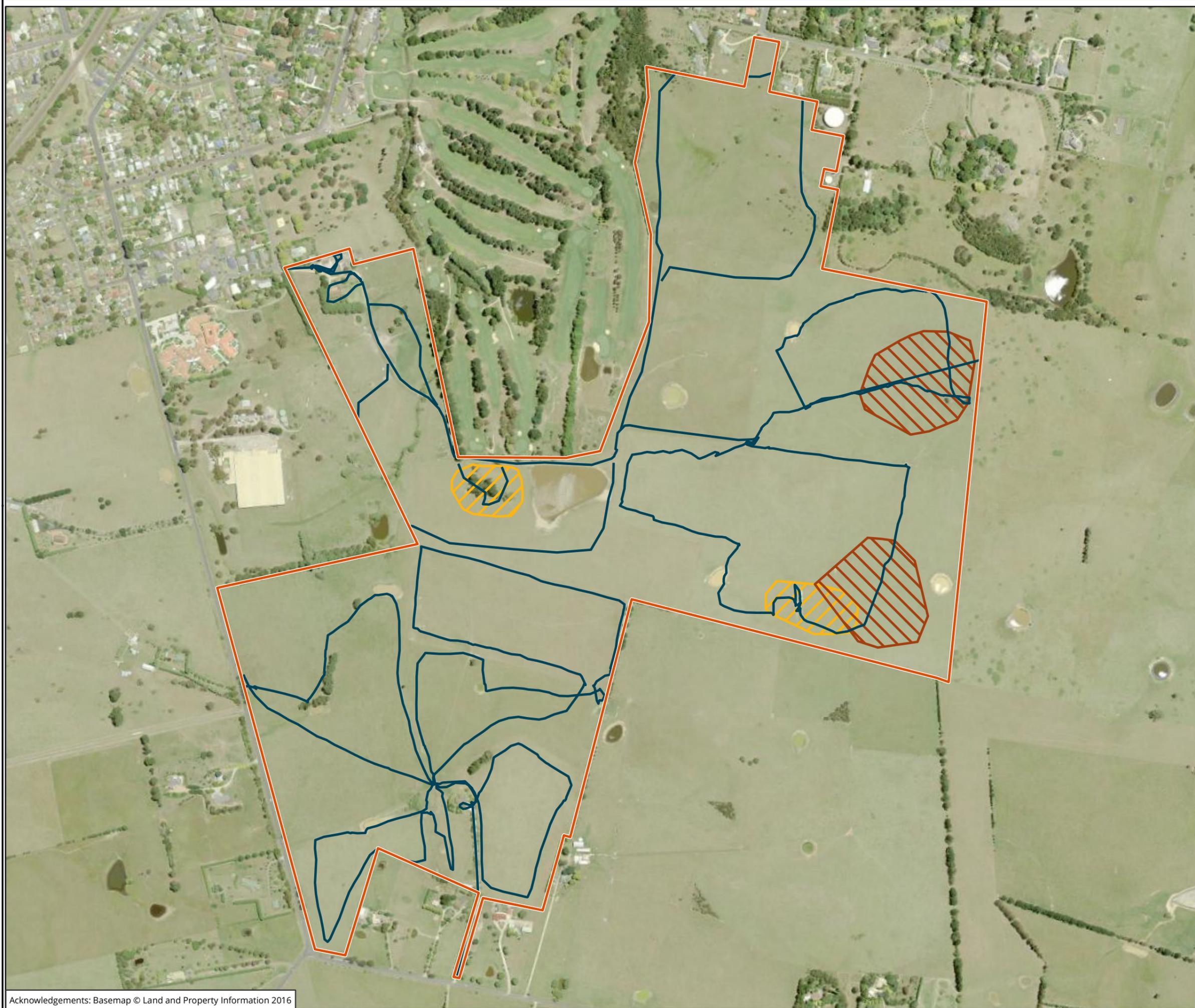


Metres
 Scale: 1:7,000 @ A3
 Coordinate System: GDA 1994 NSW Lambert



biosis
 Biosis Pty Ltd
 Albury, Ballarat, Melbourne,
 Newcastle, Sydney, Wangaratta & Wollongong

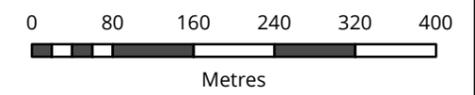
Matter: 28011
 Date: 09 October 2018,
 Checked by: MJS, Drawn by: JSP, Last edited by: lwilson
 Location: P:\28000s\28011\Mapping\28011_F2_StudyArea



Legend

-  Study area
-  Survey tracks
- Survey results**
-  Artefact sites with PAD
-  Moderate potential

Figure 2: Survey results



Scale: 1:7,000 @ A3
Coordinate System: GDA 1994 NSW Lambert



Albury, Ballarat, Melbourne,
Newcastle, Sydney, Wangaratta & Wollongong

Matter: 28011
Date: 09 October 2018,
Checked by: MJS, Drawn by: JSP, Last edited by: lwilson
Location: P:\28000s\28011\Mapping\28011_F6_SurveyResults

19 October 2018

Yurrandaali

Bo Field

Dear Bo,

RE: Moss Vale Aboriginal Cultural Heritage Assessment – project information

Our Ref: Matter 28011

Thank you for your registration of interest in this project. We are writing to you in order to provide you with the project information and methodology packs for the proposed development at Lot 3 DP 706194 and Lot 12 DP 866036, Moss Vale, NSW. This information has been provided in accordance with the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010a) (consultation requirements).

In this letter you will find the project information pack and project methodology.

The purpose of the methodology document is to provide you with further information on the background of this assessment, as well as the methodology for how it will be conducted, including the test excavations.

Please note that comments on the project methodology pack should be received before **5 pm 16 November 2018**.

As this project will involve test excavations, the purpose of the second letter is to invite your feedback on the proposed project information and methodology packs, and to assist the proponent in the programming of groups for participation in the test excavations which will be carried out within the study area.

If you have any queries regarding the project or the information in this letter, please don't hesitate to contact us.

Yours sincerely,

Mathew Smith



Archaeologist
msmith@biosis.com.au

Project information

The following information has been provided in accordance with the consultation requirements. The aim of this document is to provide registered Aboriginal parties with information about the proposed project and the scope of the Aboriginal archaeology and cultural heritage investigations and assessment.

Study area

The study area is located at Lot 3 DP 706194 and Lot 12 DP 866036, Moss Vale, NSW, within the Wingecarribee Shire Council Local Government Area (LGA), Parish of Bong Bong, and County of Camden.

Project

Aoyuan International are proposing to develop the study area into a number of residential blocks so Biosis Pty Ltd is assisting Aoyuan International with consultation with the Aboriginal community and the Aboriginal Cultural Heritage Assessment. Consultation with the Aboriginal community will follow the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010). The purpose of the Aboriginal community consultation will be to provide sufficient information for the assessment of Aboriginal cultural heritage values and to inform the Aboriginal Cultural Heritage Assessment (ACHA). This will assist with the possible application for an AHIP, and will assist the Office of Environment and Heritage (OEH) in consideration and determination of the AHIP application.

Aboriginal cultural heritage assessment process

The assessment process includes the following steps:

Background research

Background research has been undertaken in order to identify known Aboriginal sites, areas of potential archaeological sensitivity and previous disturbance, and inform the predictive modelling for the assessment area. Background research will be conducted in line with the requirements of the *Code of Practice for the Investigation of Aboriginal Objects in New South Wales* (DECCW 2010) ('the code'). Background research for the project included the following tasks:

- Conduct heritage register searches to identify previously recorded cultural heritage sites in or within the vicinity of the proposed study area. Searches will include the Aboriginal Heritage Information Management System (AHIMS), the National Heritage List, Commonwealth Heritage List, Register of the National Estate, State Heritage Register, Local Environmental Plan and National Trust heritage lists.
- Conduct additional background research in order to recognise any identifiable regional trends in site distribution and location and provide a site prediction model for the study area.
- Undertake a comprehensive survey of the study area, identifying any previously recorded sites (on AHIMS).
- Record and assess sites identified during the survey in compliance with the guidelines issued by the OEH.
- Assess the scientific significance of all identified Aboriginal cultural heritage sites and places;

- Identify impacts to all identified Aboriginal cultural heritage sites and places based on potential ground disturbance from the proposed realignment of the road.
- Make recommendations to minimise or mitigate potential impacts of the proposed realignment upon cultural heritage values within the study area.

Consultation with the Aboriginal community

This task will allow the Aboriginal community the opportunity to participate in decisions regarding the management of their cultural heritage by providing proponents information regarding cultural significance and input into management options.

Consultation with Aboriginal stakeholders under the DECCW 2010 consultation guidelines is being undertaken to assist School Infrastructure NSW by:

- providing relevant information about the cultural significance and values of the Aboriginal object(s) and/or place(s) within the study area.
- influencing the design of the method to assess cultural and scientific significance of Aboriginal objects(s) and/or place(s) within the study area.
- actively contributing to the development of cultural heritage management plan options and recommendations for any Aboriginal object(s) and/or place(s) within the proposed study area.
- commenting on the draft assessment reports before they are submitted by the proponent to the determining authority of the proposed realignment.

Aboriginal community consultation will be undertaken in accordance with the consultation requirements which includes:

- **Completed:** Ascertaining the names of Aboriginal people or groups who may hold cultural knowledge relevant to determining the significance of Aboriginal objects and/ or places within the proposed study area. This would include writing to the following:
 - Office of Environment and Heritage (OEH)
 - Local Aboriginal Land Council (LALC)
 - Office of the Registrar (Aboriginal Land Rights Act 1983)
 - National Native Title Tribunal (NNTT)
 - Native Title Services Corporation Limited (NTSCORP Limited)
 - Relevant Local Councils
 - Relevant Catchment Management Authorities
- **Completed:** Bosis will undertake the 'Placement of Notification' (Public Notice) in the *newspaper*, on behalf of Client, that must include details of the proponent, the project, the exact location, and statement of the purpose of the community consultation in preparation for possible test excavations and AHIPs. The Public Notice is also an invitation for Aboriginal people who hold relevant cultural knowledge about the study area. A closing date for the registration must be included and be no less than **14 days. Registration closed on 26 September 2018.**

- **Completed:** Aboriginal people or groups identified would be provided with notification of the proposed project via Biosis and given the opportunity to be involved in consultation. **Registrations of interest closed on 26 September 2018.**
- A list of Aboriginal people or groups who register an interest in the project will be forwarded to the OEH and the LALC by Biosis no later than **28 days** following close of registration. This list will not include those people or groups who specified that they did not want their details shared with OEH or the LALC.
- Biosis will provide details of the project and methodology for the archaeological assessment to the registered parties. The registered Aboriginal parties must be given an opportunity to review and provide feedback to the proponent within a minimum of **28 days** of the Biosis providing the methodology document.
- Selected representatives of the registered Aboriginal parties will be given the opportunity to participate in test excavations within the study area.
- The DRAFT ACHAR and Archaeological Report will be provided to all registered Aboriginal parties for comment – the proponent must allow **28 days** for comment. All comments and correspondence sent and received regarding the project will be included in the final report in an Appendix.

Field survey

An Aboriginal archaeological survey of the assessment area was undertaken in September 2018 by Biosis archaeologist Mathew Smith and Duncan Falk of Duncan Falk Consulting. This was undertaken in accordance with the guidelines outlined in the code in order to identify any previously unknown Aboriginal objects, sites or places, should they be present and to inspect previously recorded sites within the study area.

Two existing sites are located within the study area. Chelsea gardens Locale site 1 (AHIMS 52-4-0193) was located in the north eastern corner of the study area and contained artefacts eroding out of a silage pit. The second site was Chelsea gardens Locale site 2 (AHIMS 52-4-0194) and was located on a small knoll in the northern section of the study area. This site consisted of 10 artefacts eroding out soil profile. Both sites contained moderate potential for archaeological deposits.

The survey also identified two areas of moderate Aboriginal archaeological potential within the study area that were not associated with existing sites. These two areas were both located on hill crests. The rest of the study area contained low archaeological potential. These areas consisted of flat and hillslopes landforms, which due to the distance from water, the intensive use of these areas for cropping and livestock grazing and the steep slopes, contained low potential

Test excavation

The survey has identified the need for further assessment in the form of test excavations. This will be undertaken in accordance with the code. Further information on the methodology for this test excavation and the areas of potential archaeological deposit within the study area is available in the project methodology.

Reporting

A draft report will be prepared in accordance with the code and will include:

- Background and project description.
- A summary and analysis of the findings including the presence and location of registered or new identified Aboriginal artefacts or heritage items within the study area.
- A summary of any other relevant studies or surveys which have relevance to the assessment area.
- A summary of the landscape features of the site which may indicate a history of Aboriginal activity.
- A summary of previous land use that may have affected the retention of intact Aboriginal archaeology in the landscape.
- The potential or likelihood for the proposed works to uncover or expose potential undiscovered Aboriginal objects.
- Survey and test excavation results.
- Legislative implications of the proposed works.
- Recommendations and justification for further assessment (if required).
- Mitigation measures (if any) required for the works to proceed.
- Mapping will be carried out to show the location of registered and newly located (if any) Aboriginal sites in relation to the proposed works.

Registered Aboriginal parties will be provided with the draft report for comment and allowed 28 days for review.

The final report will incorporate all comments.

Project schedule

The proposed schedule and broad time allocations for the consultation stages are summarised below.

Action	Timeframe	Notes
Commencement of Aboriginal community consultation – advertising of project, Notification to stakeholders etc.	Completed	Project advertised in <i>Southern Highlands News</i> on 5 September 2018; notices sent to stakeholders 12 September 2018.
Field survey	Completed	Survey undertaken by Biosis archaeologist Mathew Smith and Duncan Falk of Duncan Falk Consultancy in September 2018.
Provision of client-reviewed DRAFT Methodology Document to registered Aboriginal stakeholders for review and comment – these methods will form the basis for all archaeological and cultural heritage work	TBC	28 days review time allowed under OEH Aboriginal community consultation guidelines.
Test excavations	TBC	
Information gathering		Until finalisation of the report

Action	Timeframe	Notes
Review of the draft report	TBC	28 days review time allowed under OEH Aboriginal community consultation guidelines
Completion and finalisation of report	TBC	

Responsibilities and roles

As part of the consultation process registered Aboriginal parties are invited to respond to requests for cultural information and comment on draft reporting, as appropriate in accordance with their role specified in the guidelines (DECCW 2010a, p. 16). Biosis and the proponent, in accordance with their role under the guidelines, will consult with the Aboriginal community by supplying suitable project information and providing the opportunity for Aboriginal stakeholders to provide input into the heritage management process (DECCW 2010a, pp. 16-17).

Each section of the methodology will be undertaken in consultation with the Aboriginal stakeholders. Biosis invites Aboriginal stakeholders to provide culturally appropriate information via mail, email or phone with regards to this project.

Cultural information provided will be recorded in the Aboriginal consultation log and discussed in the report. If the information is regarded as too sensitive to be made public then the Aboriginal stakeholder should advise Biosis and identify the nature of the sensitivity. Biosis will then arrange for the recording of the information in accordance with its sensitivity. Documents which hold sensitive information will clearly list, on the front cover, who can have access to the document. These documents will be stored securely.

References

Department of Environment, Climate Change and Water. 2010a. Code of practice for Archaeological Investigation of Aboriginal Objects in New South Wales 2010. NSW Department of Environment, Climate Change and Water, Sydney NSW.

Department of Environment, Climate Change and Water. 2010b. Aboriginal cultural heritage consultation requirements for proponents 2010. NSW Department of Environment, Climate Change and Water, Sydney NSW.

RE: Moss Vale Aboriginal Cultural Heritage Assessment - Project methodology

Our Ref: Matter 28011

This letter is being provided to all the Registered Aboriginal Parties (RAPs) who registered their interest in the consultation process for the Moss Vale development being undertaken by Aoyuan International (Figure 1, Figure 2).

In accordance with the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010) (consultation requirements), we provide the proposed methodology for the Aboriginal Cultural Heritage Assessment (ACHA) for your review and feedback.

It would be appreciated if you would provide feedback on the methodology presented in this letter to Biosis Pty Ltd by **5 pm 16 November 2018** either by email, phone or return mail.

Please address feedback on the methodology to:

Mathew Smith
Biosis Pty Ltd
8 Tate Street
Wollongong NSW 2500
msmith@biosis.com.au

Please do not hesitate to contact me if you require additional information or have any queries about the methodology or information provided.

Kind regards,

A handwritten signature in blue ink that reads 'M Smith'.

Mathew Smith

Archaeologist
msmith@biosis.com.au

Stage 3: Moss Vale Aboriginal Cultural Heritage Assessment: Methodology for test excavations

The following information has been provided in accordance with the consultation requirements. The aim of this document is to provide registered Aboriginal parties (RAPs) with the proposed methodology for the cultural heritage and archaeological assessment.

Biosis Pty Ltd recently completed an archaeological survey of the study area for Aboriginal archaeological heritage for the proposed works. Biosis identified two existing sites with areas of moderate potential and two areas of moderate potential on a crest landform within the study area (Figure 3). The two existing sites consisted of Chelsea Gardens Locale 1, an artefact scatter that was eroding out of a silage pit, and Chelsea Gardens Locale 2, an artefact scatter located eroding out of a small knoll. Both sites contained moderate archaeological potential. The proposed development will impact on these areas of potential, and as such further assessment would be required in the form of subsurface test excavations and an application for an Aboriginal Heritage Impact Permit (AHIP). The proposed methodology is detailed below for these test excavations.

Test excavation methodology

Aims of the sub-surface test excavations

The principle objectives of the subsurface test excavations are to identify and understand the nature, extent and significance of any archaeological sites located within areas of archaeological potential.

The aims of the testing program are to:

- Determine whether sub-surface archaeological deposits exist which may be impacted by the development.
- If so, to determine the extent and nature of such deposits.
- Identify if the archaeological material occurs in an intact, undisturbed context, by examining the soil profile and stratigraphy.
- Analyse and interpret any archaeological finds (such as stone artefacts, shell midden deposits, etc.) recovered during the testing program.
- Inform current knowledge of Aboriginal occupation and land use models of the region.
- Provide management and mitigation measures for Aboriginal archaeological objects located during the subsurface testing program.

Test excavation sampling strategy

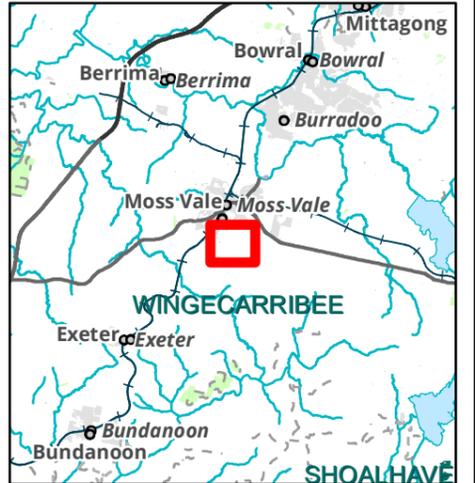
Test excavations across the study area will conform to the following methodology:

- Test excavations will be undertaken in areas identified as having the potential to contain Aboriginal cultural material.

- Test excavation units will consist of one 50 cm x 50 cm test pit, in order to determine the nature of sub-surface deposit and presence of any possible archaeological deposits.
- Test excavations units must be excavated using hand tools only including spades, handle shovels, and trowels.
- The first test excavation unit will be excavated and documented in 5 cm spits and all following units. All material excavated from the test excavation units must be sieved using nested 5 mm aperture wire-mesh sieves.
- Test excavation units must be excavated to at least the base of the identified Aboriginal object-bearing units, and must continue to confirm the soils below are culturally sterile.
- All cultural material will be collected, bagged and clearly labelled. They will be temporarily stored in the Biosis office for analysis (at Unit 14, 17-27 Power Avenue, Alexandria).
- The following documentation will be taken for the test pit:
 - Unique test pit identification number.
 - GPS coordinate.
 - Munsell soil colour, texture and pH.
 - Amount and location of cultural material within the deposit.
 - Nature of disturbance where present.
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 - Archaeological features (if present).
 - Photographic records.
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- The test excavation unit must be backfilled as soon as practicable due to safety issues.

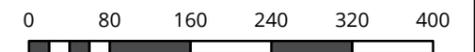
Following test excavation, an Aboriginal Site Recording form must be completed and submitted to the AHIMS Registrar, as soon as practicable, for each AHIMS site that has been identified.

Standard protocol for the discovery of any human remains is to be followed in the event that human remains are discovered.



Legend
 Study area

Figure 1: Study area detail

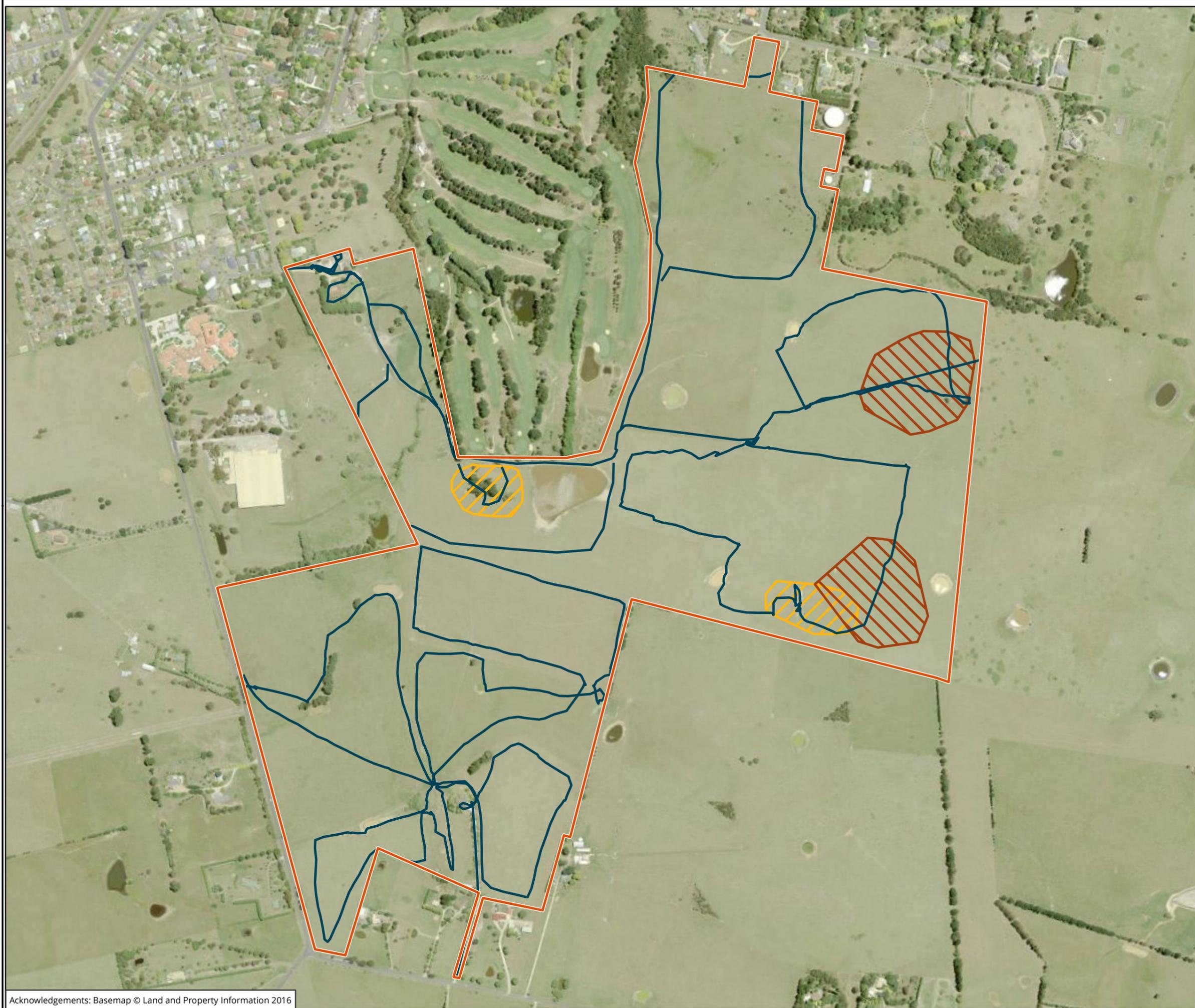


Metres
 Scale: 1:7,000 @ A3
 Coordinate System: GDA 1994 NSW Lambert



Albury, Ballarat, Melbourne,
 Newcastle, Sydney, Wangaratta & Wollongong

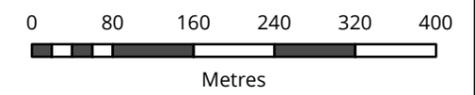
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 Date: 09 October 2018,
 Checked by: MJS, Drawn by: JSP, Last edited by: lwilson
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Legend

-  Study area
-  Survey tracks
- Survey results**
-  Artefact sites with PAD
-  Moderate potential

Figure 2: Survey results



Scale: 1:7,000 @ A3
 Coordinate System: GDA 1994 NSW Lambert



Albury, Ballarat, Melbourne,
 Newcastle, Sydney, Wangaratta & Wollongong

19 October 2018

Yulay Cultural Services

Arika Jalomaki

Dear Arika,

RE: Moss Vale Aboriginal Cultural Heritage Assessment – project information

Our Ref: Matter 28011

Thank you for your registration of interest in this project. We are writing to you in order to provide you with the project information and methodology packs for the proposed development at Lot 3 DP 706194 and Lot 12 DP 866036, Moss Vale, NSW. This information has been provided in accordance with the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010a) (consultation requirements).

In this letter you will find the project information pack and project methodology.

The purpose of the methodology document is to provide you with further information on the background of this assessment, as well as the methodology for how it will be conducted, including the test excavations.

Please note that comments on the project methodology pack should be received before **5 pm 16 November 2018**.

As this project will involve test excavations, the purpose of the second letter is to invite your feedback on the proposed project information and methodology packs, and to assist the proponent in the programming of groups for participation in the test excavations which will be carried out within the study area.

If you have any queries regarding the project or the information in this letter, please don't hesitate to contact us.

Yours sincerely,

Mathew Smith



Archaeologist
msmith@biosis.com.au

Project information

The following information has been provided in accordance with the consultation requirements. The aim of this document is to provide registered Aboriginal parties with information about the proposed project and the scope of the Aboriginal archaeology and cultural heritage investigations and assessment.

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Project

Aoyuan International are proposing to develop the study area into a number of residential blocks so Biosis Pty Ltd is assisting Aoyuan International with consultation with the Aboriginal community and the Aboriginal Cultural Heritage Assessment. Consultation with the Aboriginal community will follow the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010). The purpose of the Aboriginal community consultation will be to provide sufficient information for the assessment of Aboriginal cultural heritage values and to inform the Aboriginal Cultural Heritage Assessment (ACHA). This will assist with the possible application for an AHIP, and will assist the Office of Environment and Heritage (OEH) in consideration and determination of the AHIP application.

Aboriginal cultural heritage assessment process

The assessment process includes the following steps:

Background research

Background research has been undertaken in order to identify known Aboriginal sites, areas of potential archaeological sensitivity and previous disturbance, and inform the predictive modelling for the assessment area. Background research will be conducted in line with the requirements of the *Code of Practice for the Investigation of Aboriginal Objects in New South Wales* (DECCW 2010) ('the code'). Background research for the project included the following tasks:

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- Record and assess sites identified during the survey in compliance with the guidelines issued by the OEH.
- Assess the scientific significance of all identified Aboriginal cultural heritage sites and places;

- Identify impacts to all identified Aboriginal cultural heritage sites and places based on potential ground disturbance from the proposed realignment of the road.
- Make recommendations to minimise or mitigate potential impacts of the proposed realignment upon cultural heritage values within the study area.

Consultation with the Aboriginal community

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Consultation with Aboriginal stakeholders under the DECCW 2010 consultation guidelines is being undertaken to assist School Infrastructure NSW by:

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- influencing the design of the method to assess cultural and scientific significance of Aboriginal objects(s) and/or place(s) within the study area.
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Aboriginal community consultation will be undertaken in accordance with the consultation requirements which includes:

- **Completed:** Ascertaining the names of Aboriginal people or groups who may hold cultural knowledge relevant to determining the significance of Aboriginal objects and/ or places within the proposed study area. This would include writing to the following:
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- The DRAFT ACHAR and Archaeological Report will be provided to all registered Aboriginal parties for comment – the proponent must allow **28 days** for comment. All comments and correspondence sent and received regarding the project will be included in the final report in an Appendix.

Field survey

An Aboriginal archaeological survey of the assessment area was undertaken in September 2018 by Biosis archaeologist Mathew Smith and Duncan Falk of Duncan Falk Consulting. This was undertaken in accordance with the guidelines outlined in the code in order to identify any previously unknown Aboriginal objects, sites or places, should they be present and to inspect previously recorded sites within the study area.

Two existing sites are located within the study area. Chelsea gardens Locale site 1 (AHIMS 52-4-0193) was located in the north eastern corner of the study area and contained artefacts eroding out of a silage pit. The second site was Chelsea gardens Locale site 2 (AHIMS 52-4-0194) and was located on a small knoll in the northern section of the study area. This site consisted of 10 artefacts eroding out soil profile. Both sites contained moderate potential for archaeological deposits.

The survey also identified two areas of moderate Aboriginal archaeological potential within the study area that were not associated with existing sites. These two areas were both located on hill crests. The rest of the study area contained low archaeological potential. These areas consisted of flat and hillslopes landforms, which due to the distance from water, the intensive use of these areas for cropping and livestock grazing and the steep slopes, contained low potential

Test excavation

The survey has identified the need for further assessment in the form of test excavations. This will be undertaken in accordance with the code. Further information on the methodology for this test excavation and the areas of potential archaeological deposit within the study area is available in the project methodology.

Reporting

A draft report will be prepared in accordance with the code and will include:

- Background and project description.
- A summary and analysis of the findings including the presence and location of registered or new identified Aboriginal artefacts or heritage items within the study area.
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- A summary of the landscape features of the site which may indicate a history of Aboriginal activity.
- A summary of previous land use that may have affected the retention of intact Aboriginal archaeology in the landscape.
- The potential or likelihood for the proposed works to uncover or expose potential undiscovered Aboriginal objects.
- Survey and test excavation results.
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- Mapping will be carried out to show the location of registered and newly located (if any) Aboriginal sites in relation to the proposed works.

Registered Aboriginal parties will be provided with the draft report for comment and allowed 28 days for review.

The final report will incorporate all comments.

Project schedule

The proposed schedule and broad time allocations for the consultation stages are summarised below.

Action	Timeframe	Notes
Commencement of Aboriginal community consultation – advertising of project, Notification to stakeholders etc.	Completed	Project advertised in <i>Southern Highlands News</i> on 5 September 2018; notices sent to stakeholders 12 September 2018.
Field survey	Completed	Survey undertaken by Biosis archaeologist Mathew Smith and Duncan Falk of Duncan Falk Consultancy in September 2018.
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Information gathering		Until finalisation of the report

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Responsibilities and roles

As part of the consultation process registered Aboriginal parties are invited to respond to requests for cultural information and comment on draft reporting, as appropriate in accordance with their role specified in the guidelines (DECCW 2010a, p. 16). Biosis and the proponent, in accordance with their role under the guidelines, will consult with the Aboriginal community by supplying suitable project information and providing the opportunity for Aboriginal stakeholders to provide input into the heritage management process (DECCW 2010a, pp. 16-17).

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RE: Moss Vale Aboriginal Cultural Heritage Assessment - Project methodology

Our Ref: Matter 28011

This letter is being provided to all the Registered Aboriginal Parties (RAPs) who registered their interest in the consultation process for the Moss Vale development being undertaken by Aoyuan International (Figure 1, Figure 2).

In accordance with the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010) (consultation requirements), we provide the proposed methodology for the Aboriginal Cultural Heritage Assessment (ACHA) for your review and feedback.

It would be appreciated if you would provide feedback on the methodology presented in this letter to Biosis Pty Ltd by **5 pm 16 November 2018** either by email, phone or return mail.

Please address feedback on the methodology to:

Mathew Smith
Biosis Pty Ltd
8 Tate Street
Wollongong NSW 2500
msmith@biosis.com.au

Please do not hesitate to contact me if you require additional information or have any queries about the methodology or information provided.

Kind regards,

A handwritten signature in blue ink that reads 'M Smith'.

Mathew Smith

Archaeologist
msmith@biosis.com.au

Stage 3: Moss Vale Aboriginal Cultural Heritage Assessment: Methodology for test excavations

The following information has been provided in accordance with the consultation requirements. The aim of this document is to provide registered Aboriginal parties (RAPs) with the proposed methodology for the cultural heritage and archaeological assessment.

Biosis Pty Ltd recently completed an archaeological survey of the study area for Aboriginal archaeological heritage for the proposed works. Biosis identified two existing sites with areas of moderate potential and two areas of moderate potential on a crest landform within the study area (Figure 3). The two existing sites consisted of Chelsea Gardens Locale 1, an artefact scatter that was eroding out of a silage pit, and Chelsea Gardens Locale 2, an artefact scatter located eroding out of a small knoll. Both sites contained moderate archaeological potential. The proposed development will impact on these areas of potential, and as such further assessment would be required in the form of subsurface test excavations and an application for an Aboriginal Heritage Impact Permit (AHIP). The proposed methodology is detailed below for these test excavations.

Test excavation methodology

Aims of the sub-surface test excavations

The principle objectives of the subsurface test excavations are to identify and understand the nature, extent and significance of any archaeological sites located within areas of archaeological potential.

The aims of the testing program are to:

- Determine whether sub-surface archaeological deposits exist which may be impacted by the development.
- If so, to determine the extent and nature of such deposits.
- Identify if the archaeological material occurs in an intact, undisturbed context, by examining the soil profile and stratigraphy.
- Analyse and interpret any archaeological finds (such as stone artefacts, shell midden deposits, etc.) recovered during the testing program.
- Inform current knowledge of Aboriginal occupation and land use models of the region.
- Provide management and mitigation measures for Aboriginal archaeological objects located during the subsurface testing program.

Test excavation sampling strategy

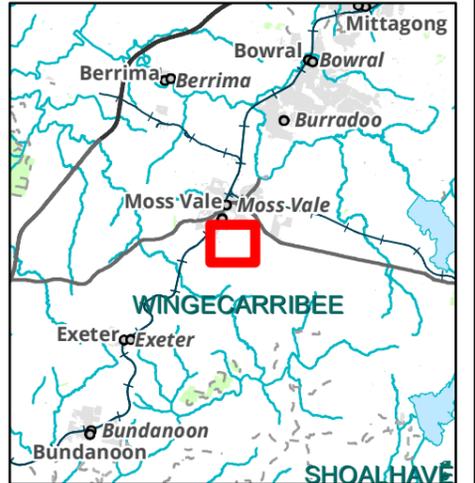
Test excavations across the study area will conform to the following methodology:

- Test excavations will be undertaken in areas identified as having the potential to contain Aboriginal cultural material.

- Test excavation units will consist of one 50 cm x 50 cm test pit, in order to determine the nature of sub-surface deposit and presence of any possible archaeological deposits.
- Test excavations units must be excavated using hand tools only including spades, handle shovels, and trowels.
- The first test excavation unit will be excavated and documented in 5 cm spits and all following units. All material excavated from the test excavation units must be sieved using nested 5 mm aperture wire-mesh sieves.
- Test excavation units must be excavated to at least the base of the identified Aboriginal object-bearing units, and must continue to confirm the soils below are culturally sterile.
- All cultural material will be collected, bagged and clearly labelled. They will be temporarily stored in the Biosis office for analysis (at Unit 14, 17-27 Power Avenue, Alexandria).
- The following documentation will be taken for the test pit:
 - Unique test pit identification number.
 - GPS coordinate.
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 - Amount and location of cultural material within the deposit.
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 - Archaeological features (if present).
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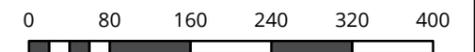
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Standard protocol for the discovery of any human remains is to be followed in the event that human remains are discovered.



Legend
 Study area

Figure 1: Study area detail

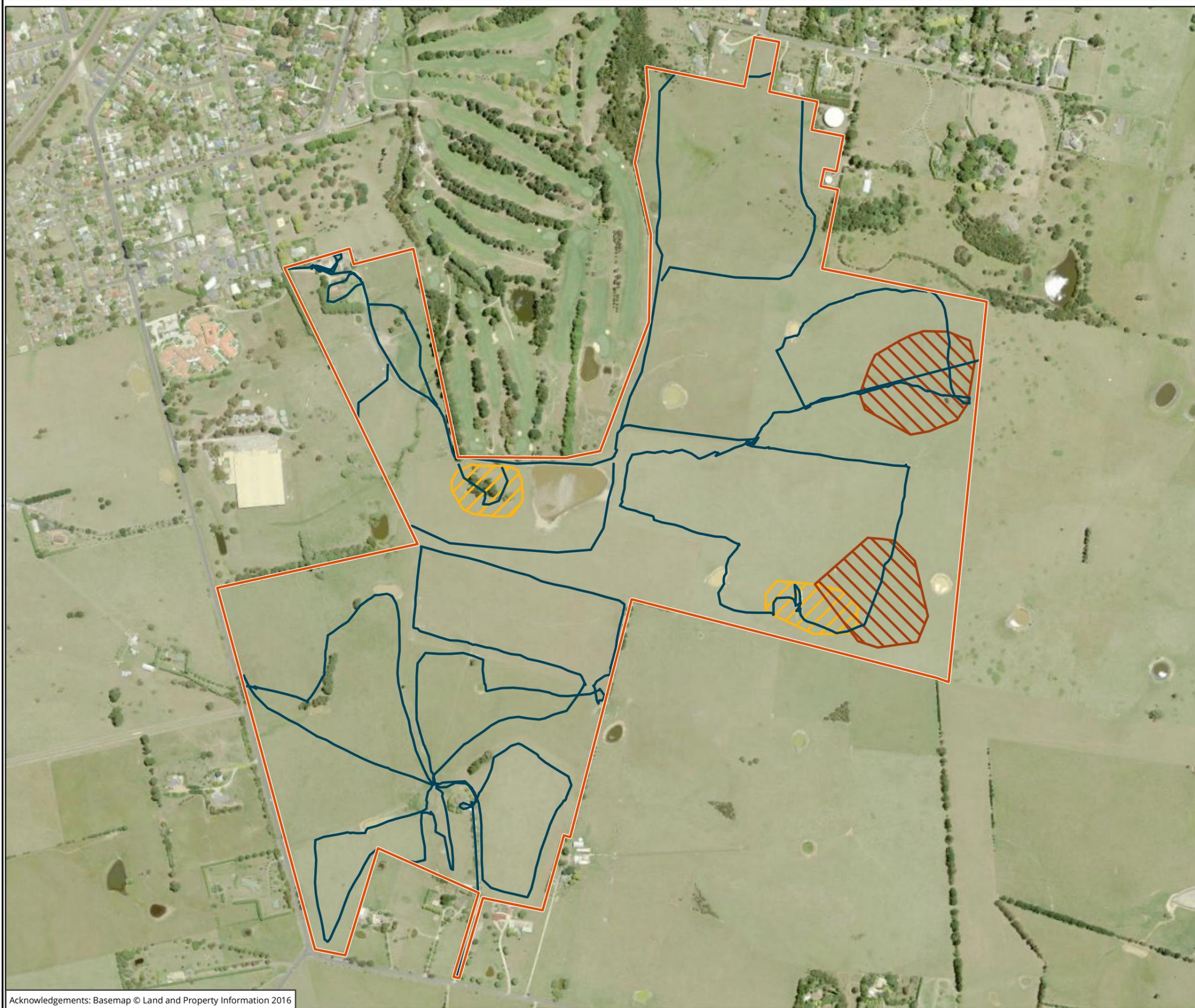


Metres
 Scale: 1:7,000 @ A3
 Coordinate System: GDA 1994 NSW Lambert



Albury, Ballarat, Melbourne,
 Newcastle, Sydney, Wangaratta & Wollongong

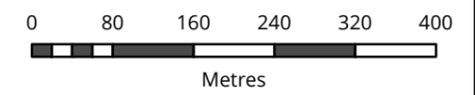
Matter: 28011
 Date: 09 October 2018,
 Checked by: MJS, Drawn by: JSP, Last edited by: lwilson
 Location: P:\28000s\28011\Mapping\
 28011_F2_StudyArea



Legend

-  Study area
-  Survey tracks
- Survey results**
-  Artefact sites with PAD
-  Moderate potential

Figure 2: Survey results



Scale: 1:7,000 @ A3
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Albury, Ballarat, Melbourne,
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Matter: 28011
 Date: 09 October 2018,
 Checked by: MJS, Drawn by: JSP, Last edited by: lwilson
 Location: P:\28000s\28011\Mapping\28011_F6_SurveyResults

19 October 2018

Barraby Cultural Services

Lee Field

Dear Lee,

RE: Moss Vale Aboriginal Cultural Heritage Assessment – project information

Our Ref: Matter 28011

Thank you for your registration of interest in this project. We are writing to you in order to provide you with the project information and methodology packs for the proposed development at Lot 3 DP 706194 and Lot 12 DP 866036, Moss Vale, NSW. This information has been provided in accordance with the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010a) (consultation requirements).

In this letter you will find the project information pack and project methodology.

The purpose of the methodology document is to provide you with further information on the background of this assessment, as well as the methodology for how it will be conducted, including the test excavations.

Please note that comments on the project methodology pack should be received before **5 pm 16 November 2018**.

As this project will involve test excavations, the purpose of the second letter is to invite your feedback on the proposed project information and methodology packs, and to assist the proponent in the programming of groups for participation in the test excavations which will be carried out within the study area.

If you have any queries regarding the project or the information in this letter, please don't hesitate to contact us.

Yours sincerely,

Mathew Smith



Archaeologist
msmith@biosis.com.au

Project information

The following information has been provided in accordance with the consultation requirements. The aim of this document is to provide registered Aboriginal parties with information about the proposed project and the scope of the Aboriginal archaeology and cultural heritage investigations and assessment.

Study area

The study area is located at Lot 3 DP 706194 and Lot 12 DP 866036, Moss Vale, NSW, within the Wingecarribee Shire Council Local Government Area (LGA), Parish of Bong Bong, and County of Camden.

Project

Aoyuan International are proposing to develop the study area into a number of residential blocks so Biosis Pty Ltd is assisting Aoyuan International with consultation with the Aboriginal community and the Aboriginal Cultural Heritage Assessment. Consultation with the Aboriginal community will follow the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010). The purpose of the Aboriginal community consultation will be to provide sufficient information for the assessment of Aboriginal cultural heritage values and to inform the Aboriginal Cultural Heritage Assessment (ACHA). This will assist with the possible application for an AHIP, and will assist the Office of Environment and Heritage (OEH) in consideration and determination of the AHIP application.

Aboriginal cultural heritage assessment process

The assessment process includes the following steps:

Background research

Background research has been undertaken in order to identify known Aboriginal sites, areas of potential archaeological sensitivity and previous disturbance, and inform the predictive modelling for the assessment area. Background research will be conducted in line with the requirements of the *Code of Practice for the Investigation of Aboriginal Objects in New South Wales* (DECCW 2010) ('the code'). Background research for the project included the following tasks:

- Conduct heritage register searches to identify previously recorded cultural heritage sites in or within the vicinity of the proposed study area. Searches will include the Aboriginal Heritage Information Management System (AHIMS), the National Heritage List, Commonwealth Heritage List, Register of the National Estate, State Heritage Register, Local Environmental Plan and National Trust heritage lists.
- Conduct additional background research in order to recognise any identifiable regional trends in site distribution and location and provide a site prediction model for the study area.
- Undertake a comprehensive survey of the study area, identifying any previously recorded sites (on AHIMS).
- Record and assess sites identified during the survey in compliance with the guidelines issued by the OEH.
- Assess the scientific significance of all identified Aboriginal cultural heritage sites and places;

- Identify impacts to all identified Aboriginal cultural heritage sites and places based on potential ground disturbance from the proposed realignment of the road.
- Make recommendations to minimise or mitigate potential impacts of the proposed realignment upon cultural heritage values within the study area.

Consultation with the Aboriginal community

This task will allow the Aboriginal community the opportunity to participate in decisions regarding the management of their cultural heritage by providing proponents information regarding cultural significance and input into management options.

Consultation with Aboriginal stakeholders under the DECCW 2010 consultation guidelines is being undertaken to assist School Infrastructure NSW by:

- providing relevant information about the cultural significance and values of the Aboriginal object(s) and/or place(s) within the study area.
- influencing the design of the method to assess cultural and scientific significance of Aboriginal objects(s) and/or place(s) within the study area.
- actively contributing to the development of cultural heritage management plan options and recommendations for any Aboriginal object(s) and/or place(s) within the proposed study area.
- commenting on the draft assessment reports before they are submitted by the proponent to the determining authority of the proposed realignment.

Aboriginal community consultation will be undertaken in accordance with the consultation requirements which includes:

- **Completed:** Ascertaining the names of Aboriginal people or groups who may hold cultural knowledge relevant to determining the significance of Aboriginal objects and/ or places within the proposed study area. This would include writing to the following:
 - Office of Environment and Heritage (OEH)
 - Local Aboriginal Land Council (LALC)
 - Office of the Registrar (Aboriginal Land Rights Act 1983)
 - National Native Title Tribunal (NNTT)
 - Native Title Services Corporation Limited (NTSCORP Limited)
 - Relevant Local Councils
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- **Completed:** Bosis will undertake the 'Placement of Notification' (Public Notice) in the *newspaper*, on behalf of Client, that must include details of the proponent, the project, the exact location, and statement of the purpose of the community consultation in preparation for possible test excavations and AHIPs. The Public Notice is also an invitation for Aboriginal people who hold relevant cultural knowledge about the study area. A closing date for the registration must be included and be no less than **14 days. Registration closed on 26 September 2018.**

- **Completed:** Aboriginal people or groups identified would be provided with notification of the proposed project via Biosis and given the opportunity to be involved in consultation. **Registrations of interest closed on 26 September 2018.**
- A list of Aboriginal people or groups who register an interest in the project will be forwarded to the OEH and the LALC by Biosis no later than **28 days** following close of registration. This list will not include those people or groups who specified that they did not want their details shared with OEH or the LALC.
- Biosis will provide details of the project and methodology for the archaeological assessment to the registered parties. The registered Aboriginal parties must be given an opportunity to review and provide feedback to the proponent within a minimum of **28 days** of the Biosis providing the methodology document.
- Selected representatives of the registered Aboriginal parties will be given the opportunity to participate in test excavations within the study area.
- The DRAFT ACHAR and Archaeological Report will be provided to all registered Aboriginal parties for comment – the proponent must allow **28 days** for comment. All comments and correspondence sent and received regarding the project will be included in the final report in an Appendix.

Field survey

An Aboriginal archaeological survey of the assessment area was undertaken in September 2018 by Biosis archaeologist Mathew Smith and Duncan Falk of Duncan Falk Consulting. This was undertaken in accordance with the guidelines outlined in the code in order to identify any previously unknown Aboriginal objects, sites or places, should they be present and to inspect previously recorded sites within the study area.

Two existing sites are located within the study area. Chelsea gardens Locale site 1 (AHIMS 52-4-0193) was located in the north eastern corner of the study area and contained artefacts eroding out of a silage pit. The second site was Chelsea gardens Locale site 2 (AHIMS 52-4-0194) and was located on a small knoll in the northern section of the study area. This site consisted of 10 artefacts eroding out soil profile. Both sites contained moderate potential for archaeological deposits.

The survey also identified two areas of moderate Aboriginal archaeological potential within the study area that were not associated with existing sites. These two areas were both located on hill crests. The rest of the study area contained low archaeological potential. These areas consisted of flat and hillslopes landforms, which due to the distance from water, the intensive use of these areas for cropping and livestock grazing and the steep slopes, contained low potential

Test excavation

The survey has identified the need for further assessment in the form of test excavations. This will be undertaken in accordance with the code. Further information on the methodology for this test excavation and the areas of potential archaeological deposit within the study area is available in the project methodology.

Reporting

A draft report will be prepared in accordance with the code and will include:

- Background and project description.
- A summary and analysis of the findings including the presence and location of registered or new identified Aboriginal artefacts or heritage items within the study area.
- A summary of any other relevant studies or surveys which have relevance to the assessment area.
- A summary of the landscape features of the site which may indicate a history of Aboriginal activity.
- A summary of previous land use that may have affected the retention of intact Aboriginal archaeology in the landscape.
- The potential or likelihood for the proposed works to uncover or expose potential undiscovered Aboriginal objects.
- Survey and test excavation results.
- Legislative implications of the proposed works.
- Recommendations and justification for further assessment (if required).
- Mitigation measures (if any) required for the works to proceed.
- Mapping will be carried out to show the location of registered and newly located (if any) Aboriginal sites in relation to the proposed works.

Registered Aboriginal parties will be provided with the draft report for comment and allowed 28 days for review.

The final report will incorporate all comments.

Project schedule

The proposed schedule and broad time allocations for the consultation stages are summarised below.

Action	Timeframe	Notes
Commencement of Aboriginal community consultation – advertising of project, Notification to stakeholders etc.	Completed	Project advertised in <i>Southern Highlands News</i> on 5 September 2018; notices sent to stakeholders 12 September 2018.
Field survey	Completed	Survey undertaken by Biosis archaeologist Mathew Smith and Duncan Falk of Duncan Falk Consultancy in September 2018.
Provision of client-reviewed DRAFT Methodology Document to registered Aboriginal stakeholders for review and comment – these methods will form the basis for all archaeological and cultural heritage work	TBC	28 days review time allowed under OEH Aboriginal community consultation guidelines.
Test excavations	TBC	
Information gathering		Until finalisation of the report

Action	Timeframe	Notes
Review of the draft report	TBC	28 days review time allowed under OEH Aboriginal community consultation guidelines
Completion and finalisation of report	TBC	

Responsibilities and roles

As part of the consultation process registered Aboriginal parties are invited to respond to requests for cultural information and comment on draft reporting, as appropriate in accordance with their role specified in the guidelines (DECCW 2010a, p. 16). Biosis and the proponent, in accordance with their role under the guidelines, will consult with the Aboriginal community by supplying suitable project information and providing the opportunity for Aboriginal stakeholders to provide input into the heritage management process (DECCW 2010a, pp. 16-17).

Each section of the methodology will be undertaken in consultation with the Aboriginal stakeholders. Biosis invites Aboriginal stakeholders to provide culturally appropriate information via mail, email or phone with regards to this project.

Cultural information provided will be recorded in the Aboriginal consultation log and discussed in the report. If the information is regarded as too sensitive to be made public then the Aboriginal stakeholder should advise Biosis and identify the nature of the sensitivity. Biosis will then arrange for the recording of the information in accordance with its sensitivity. Documents which hold sensitive information will clearly list, on the front cover, who can have access to the document. These documents will be stored securely.

References

Department of Environment, Climate Change and Water. 2010a. Code of practice for Archaeological Investigation of Aboriginal Objects in New South Wales 2010. NSW Department of Environment, Climate Change and Water, Sydney NSW.

Department of Environment, Climate Change and Water. 2010b. Aboriginal cultural heritage consultation requirements for proponents 2010. NSW Department of Environment, Climate Change and Water, Sydney NSW.

RE: Moss Vale Aboriginal Cultural Heritage Assessment - Project methodology

Our Ref: Matter 28011

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Kind regards,

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Mathew Smith

Archaeologist
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Stage 3: Moss Vale Aboriginal Cultural Heritage Assessment: Methodology for test excavations

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Test excavation methodology

Aims of the sub-surface test excavations

The principle objectives of the subsurface test excavations are to identify and understand the nature, extent and significance of any archaeological sites located within areas of archaeological potential.

The aims of the testing program are to:

- Determine whether sub-surface archaeological deposits exist which may be impacted by the development.
- If so, to determine the extent and nature of such deposits.
- Identify if the archaeological material occurs in an intact, undisturbed context, by examining the soil profile and stratigraphy.
- Analyse and interpret any archaeological finds (such as stone artefacts, shell midden deposits, etc.) recovered during the testing program.
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Test excavation sampling strategy

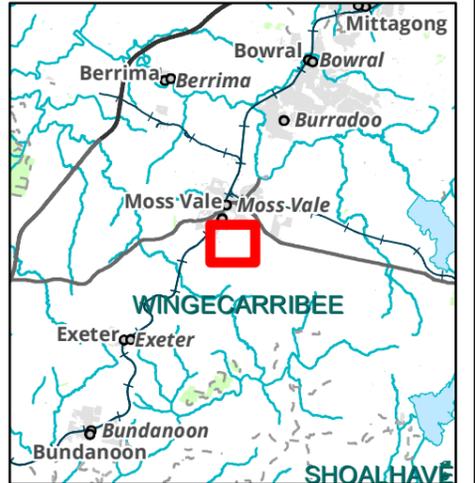
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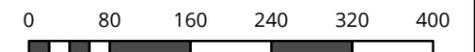
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Legend
 Study area

Figure 1: Study area detail



Metres
 Scale: 1:7,000 @ A3
 Coordinate System: GDA 1994 NSW Lambert



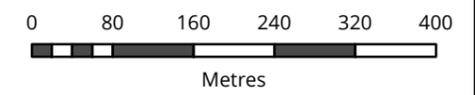
Albury, Ballarat, Melbourne,
 Newcastle, Sydney, Wangaratta & Wollongong



Legend

-  Study area
-  Survey tracks
- Survey results**
-  Artefact sites with PAD
-  Moderate potential

Figure 2: Survey results



Scale: 1:7,000 @ A3
Coordinate System: GDA 1994 NSW Lambert



Albury, Ballarat, Melbourne,
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Matter: 28011
Date: 09 October 2018,
Checked by: MJS, Drawn by: JSP, Last edited by: lwilson
Location: P:\28000s\28011\Mapping\28011_F6_SurveyResults

19 October 2018

Illawarra Local Aboriginal Land Council

Paul Knight

Dear Paul,

RE: Moss Vale Aboriginal Cultural Heritage Assessment – project information

Our Ref: Matter 28011

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Archaeologist
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The assessment process includes the following steps:

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- A summary of the landscape features of the site which may indicate a history of Aboriginal activity.
- A summary of previous land use that may have affected the retention of intact Aboriginal archaeology in the landscape.
- The potential or likelihood for the proposed works to uncover or expose potential undiscovered Aboriginal objects.
- Survey and test excavation results.
- Legislative implications of the proposed works.
- Recommendations and justification for further assessment (if required).
- Mitigation measures (if any) required for the works to proceed.
- Mapping will be carried out to show the location of registered and newly located (if any) Aboriginal sites in relation to the proposed works.

Registered Aboriginal parties will be provided with the draft report for comment and allowed 28 days for review.

The final report will incorporate all comments.

Project schedule

The proposed schedule and broad time allocations for the consultation stages are summarised below.

Action	Timeframe	Notes
Commencement of Aboriginal community consultation – advertising of project, Notification to stakeholders etc.	Completed	Project advertised in <i>Southern Highlands News</i> on 5 September 2018; notices sent to stakeholders 12 September 2018.
Field survey	Completed	Survey undertaken by Biosis archaeologist Mathew Smith and Duncan Falk of Duncan Falk Consultancy in September 2018.
Provision of client-reviewed DRAFT Methodology Document to registered Aboriginal stakeholders for review and comment – these methods will form the basis for all archaeological and cultural heritage work	TBC	28 days review time allowed under OEH Aboriginal community consultation guidelines.
Test excavations	TBC	
Information gathering		Until finalisation of the report

Action	Timeframe	Notes
Review of the draft report	TBC	28 days review time allowed under OEH Aboriginal community consultation guidelines
Completion and finalisation of report	TBC	

Responsibilities and roles

As part of the consultation process registered Aboriginal parties are invited to respond to requests for cultural information and comment on draft reporting, as appropriate in accordance with their role specified in the guidelines (DECCW 2010a, p. 16). Biosis and the proponent, in accordance with their role under the guidelines, will consult with the Aboriginal community by supplying suitable project information and providing the opportunity for Aboriginal stakeholders to provide input into the heritage management process (DECCW 2010a, pp. 16-17).

Each section of the methodology will be undertaken in consultation with the Aboriginal stakeholders. Biosis invites Aboriginal stakeholders to provide culturally appropriate information via mail, email or phone with regards to this project.

Cultural information provided will be recorded in the Aboriginal consultation log and discussed in the report. If the information is regarded as too sensitive to be made public then the Aboriginal stakeholder should advise Biosis and identify the nature of the sensitivity. Biosis will then arrange for the recording of the information in accordance with its sensitivity. Documents which hold sensitive information will clearly list, on the front cover, who can have access to the document. These documents will be stored securely.

References

Department of Environment, Climate Change and Water. 2010a. Code of practice for Archaeological Investigation of Aboriginal Objects in New South Wales 2010. NSW Department of Environment, Climate Change and Water, Sydney NSW.

Department of Environment, Climate Change and Water. 2010b. Aboriginal cultural heritage consultation requirements for proponents 2010. NSW Department of Environment, Climate Change and Water, Sydney NSW.

RE: Moss Vale Aboriginal Cultural Heritage Assessment - Project methodology

Our Ref: Matter 28011

This letter is being provided to all the Registered Aboriginal Parties (RAPs) who registered their interest in the consultation process for the Moss Vale development being undertaken by Aoyuan International (Figure 1, Figure 2).

In accordance with the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010) (consultation requirements), we provide the proposed methodology for the Aboriginal Cultural Heritage Assessment (ACHA) for your review and feedback.

It would be appreciated if you would provide feedback on the methodology presented in this letter to Biosis Pty Ltd by **5 pm 16 November 2018** either by email, phone or return mail.

Please address feedback on the methodology to:

Mathew Smith
Biosis Pty Ltd
8 Tate Street
Wollongong NSW 2500
msmith@biosis.com.au

Please do not hesitate to contact me if you require additional information or have any queries about the methodology or information provided.

Kind regards,

A handwritten signature in blue ink that reads "M Smith".

Mathew Smith

Archaeologist
msmith@biosis.com.au

Stage 3: Moss Vale Aboriginal Cultural Heritage Assessment: Methodology for test excavations

The following information has been provided in accordance with the consultation requirements. The aim of this document is to provide registered Aboriginal parties (RAPs) with the proposed methodology for the cultural heritage and archaeological assessment.

Biosis Pty Ltd recently completed an archaeological survey of the study area for Aboriginal archaeological heritage for the proposed works. Biosis identified two existing sites with areas of moderate potential and two areas of moderate potential on a crest landform within the study area (Figure 3). The two existing sites consisted of Chelsea Gardens Locale 1, an artefact scatter that was eroding out of a silage pit, and Chelsea Gardens Locale 2, an artefact scatter located eroding out of a small knoll. Both sites contained moderate archaeological potential. The proposed development will impact on these areas of potential, and as such further assessment would be required in the form of subsurface test excavations and an application for an Aboriginal Heritage Impact Permit (AHIP). The proposed methodology is detailed below for these test excavations.

Test excavation methodology

Aims of the sub-surface test excavations

The principle objectives of the subsurface test excavations are to identify and understand the nature, extent and significance of any archaeological sites located within areas of archaeological potential.

The aims of the testing program are to:

- Determine whether sub-surface archaeological deposits exist which may be impacted by the development.
- If so, to determine the extent and nature of such deposits.
- Identify if the archaeological material occurs in an intact, undisturbed context, by examining the soil profile and stratigraphy.
- Analyse and interpret any archaeological finds (such as stone artefacts, shell midden deposits, etc.) recovered during the testing program.
- Inform current knowledge of Aboriginal occupation and land use models of the region.
- Provide management and mitigation measures for Aboriginal archaeological objects located during the subsurface testing program.

Test excavation sampling strategy

Test excavations across the study area will conform to the following methodology:

- Test excavations will be undertaken in areas identified as having the potential to contain Aboriginal cultural material.

- Test excavation units will consist of one 50 cm x 50 cm test pit, in order to determine the nature of sub-surface deposit and presence of any possible archaeological deposits.
- Test excavations units must be excavated using hand tools only including spades, handle shovels, and trowels.
- The first test excavation unit will be excavated and documented in 5 cm spits and all following units. All material excavated from the test excavation units must be sieved using nested 5 mm aperture wire-mesh sieves.
- Test excavation units must be excavated to at least the base of the identified Aboriginal object-bearing units, and must continue to confirm the soils below are culturally sterile.
- All cultural material will be collected, bagged and clearly labelled. They will be temporarily stored in the Biosis office for analysis (at Unit 14, 17-27 Power Avenue, Alexandria).
- The following documentation will be taken for the test pit:
 - Unique test pit identification number.
 - GPS coordinate.
 - Munsell soil colour, texture and pH.
 - Amount and location of cultural material within the deposit.
 - Nature of disturbance where present.
 - Stratigraphy.
 - Archaeological features (if present).
 - Photographic records.
 - Spit records.
- The test excavation unit must be backfilled as soon as practicable due to safety issues.

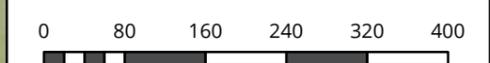
Following test excavation, an Aboriginal Site Recording form must be completed and submitted to the AHIMS Registrar, as soon as practicable, for each AHIMS site that has been identified.

Standard protocol for the discovery of any human remains is to be followed in the event that human remains are discovered.



Legend
 Study area

Figure 1: Study area detail

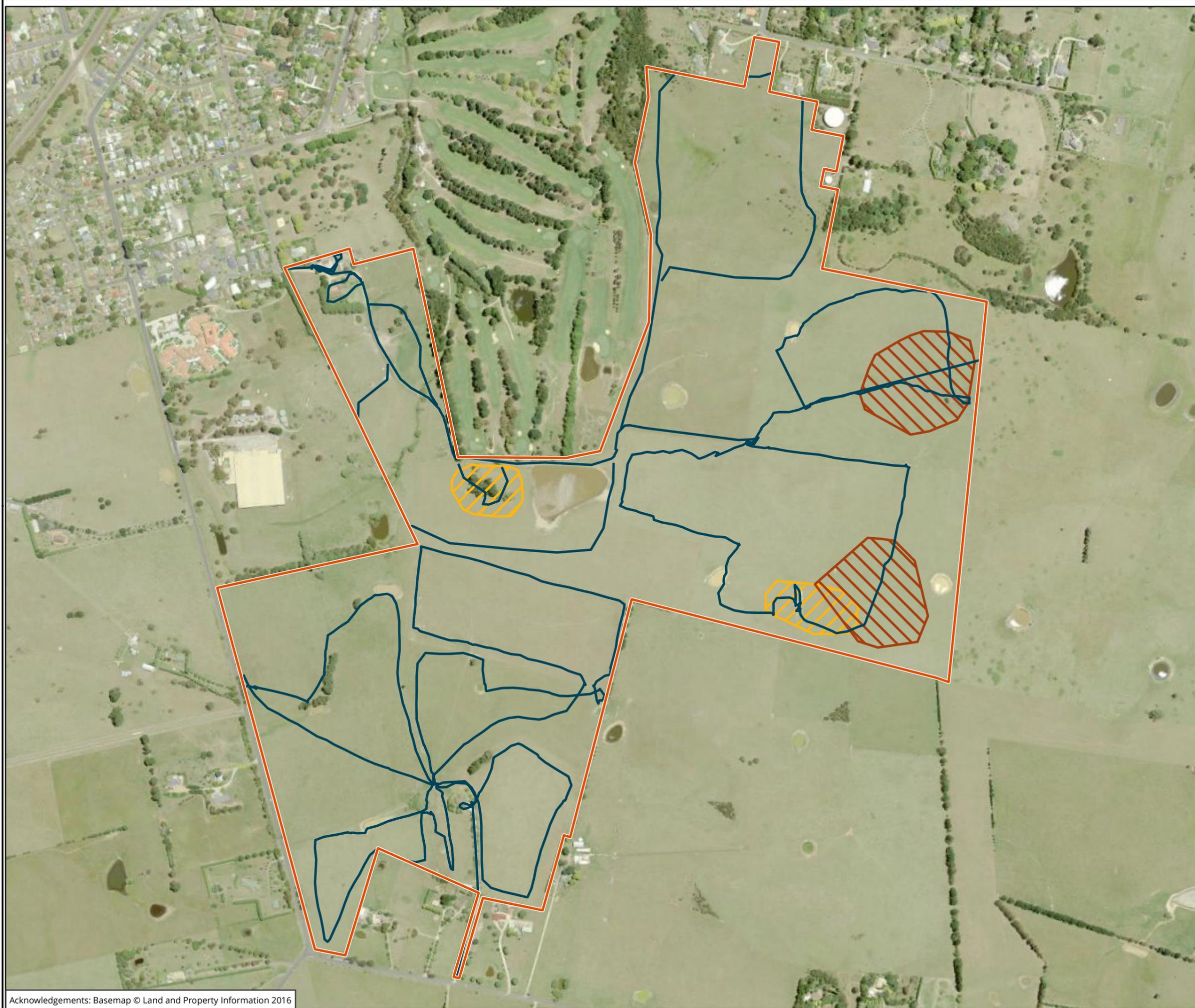


Metres
 Scale: 1:7,000 @ A3
 Coordinate System: GDA 1994 NSW Lambert



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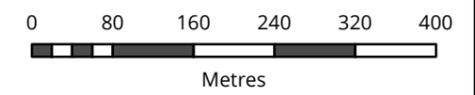
Matter: 28011
 Date: 09 October 2018,
 Checked by: MJS, Drawn by: JSP, Last edited by: lwilson
 Location: P:\28000s\28011\Mapping\28011_F2_StudyArea



Legend

-  Study area
-  Survey tracks
- Survey results**
-  Artefact sites with PAD
-  Moderate potential

Figure 2: Survey results



Scale: 1:7,000 @ A3
Coordinate System: GDA 1994 NSW Lambert



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- Analyse and interpret any archaeological finds (such as stone artefacts, shell midden deposits, etc.) recovered during the testing program.
- Inform current knowledge of Aboriginal occupation and land use models of the region.
- Provide management and mitigation measures for Aboriginal archaeological objects located during the subsurface testing program.

Test excavation sampling strategy

Test excavations across the study area would conform to the following methodology:

- Test excavations will be undertaken in each area of archaeological potential with no more than 0.5% of each area being excavated.
- Test excavations will be conducted in 50 x 50 centimetre units.
- The test excavation units will be excavated by hand (inclusive of trowels, spades and other hand tools) in transects at regular intervals.
- The first test pit within a site or Potential Archaeological Deposit (PAD) area will be excavated in five centimetre spits; the subsequent test pits conducted within the site or PAD area can then be excavated in either 10 centimetre spits or stratigraphic units (whichever is smaller) to the base of Aboriginal object-bearing units being the removal of the A-horizon soil deposit down to the sterile clay or bedrock layer (B-horizon).
- If the depth of deposit prevents reaching sterile deposits within the 50 x 50 centimetre test pit, additional 50 x 50 centimetre test pits may be excavated adjacent to the original test pit (for example expanding the test pit to 50 x 100 centimetres) to reach the sterile deposits.
- Test pits may be combined and excavated as necessary in 50 x 50 centimetre units for the purposes of further understanding site characteristics. Note that under the Code, the maximum area that can be excavated in any one continuous area is three metres squared (3 m²).
- All excavated soil will be sieved in 5mm sieves. Dry sieving will be attempted in the first instance, however wet sieving may be used if deposits cannot be dry sieved.
- All cultural material will be collected, bagged and clearly labelled. They will be temporarily stored in the Biosis office for analysis (at 30 Wentworth Street, Port Kembla).
- The following documentation will be taken for the test pit:
 - unique test pit identification number
 - GPS coordinate
 - munsell soil colour, texture and pH
 - amount and location of cultural material within the deposit
 - nature of disturbance where present

- stratigraphy
 - archaeological features (if present)
 - photographic records
 - spit records.
- The test excavation unit must be backfilled as soon as practicable due to safety issues.
 - An AHIMS Site Impact Recording form will be completed and submitted to the AHIMS Registrar for any sites impacted during test excavations.
 - In the event that suspected human remains are identified works will immediately cease and the NSW Police and OEH will be notified.
 - Test excavations will cease when enough information* has been recovered to adequately characterise the objects present with regard to their nature and significance.

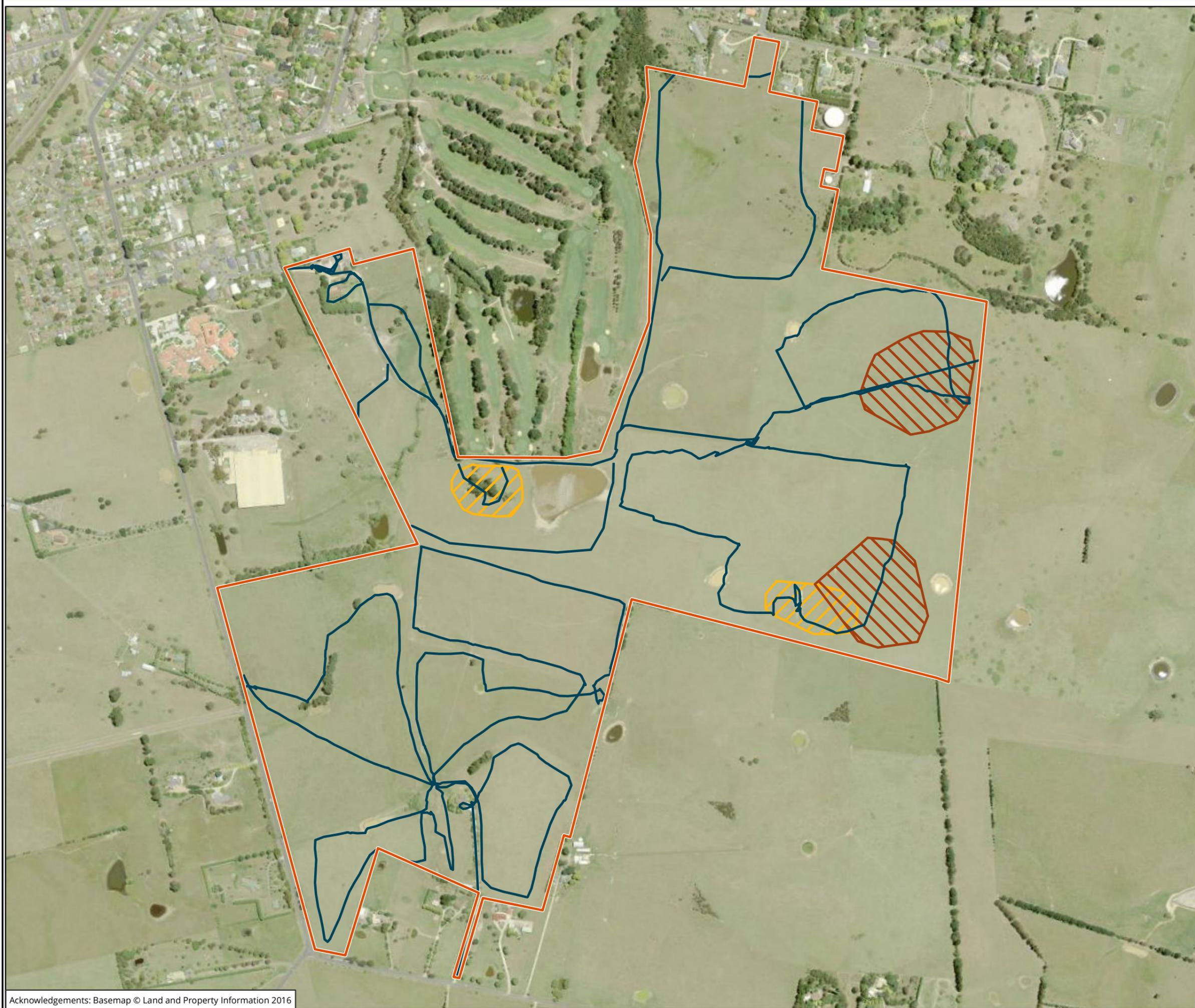
*Enough information is defined by OEH as meaning "the sample of excavated material clearly and self-evidently demonstrates the deposit's nature and significance. This may include things like locally or regionally high object density: presence of rare or representative objects: presence of archaeological features: or locally or regionally significant deposits stratified or not." (DECCW 2010b).

Storage of cultural material

Any cultural material identified during test excavations will be temporarily stored in the Biosis, Wollongong office for analysis (30 Wentworth Street, Port Kembla).

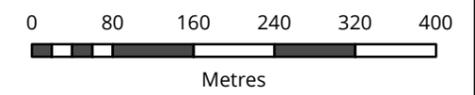
Once the cultural material has been analysed, the cultural material can be managed in the following manners:

- Cultural material can be held by the Aboriginal community under a care and control agreement.
- Cultural material can be returned to country and reburied as soon as practicable in a secure location in accordance with Requirements 16b and 26 of the Code of Practice.



- Legend**
- Study area
 - Survey tracks
- Survey results**
- Artefact sites with high potential
 - Moderate Potential

Figure 6: Survey results



Scale: 1:7,000 @ A3
 Coordinate System: GDA 1994 NSW Lambert



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Matter: 28011
 Date: 09 October 2018,
 Checked by: MJS, Drawn by: JSP, Last edited by: lwilson
 Location: P:\28000s\28011\mapping\28011_F6_SurveyResults

Appendix 4 Stage 3: Gathering information about cultural significance

19 October 2018

Guunamaa Dreaming Sites and Surveying

Richard Campbell

2 Minda Crescent

Oakflats NSW 2529

Dear Richard,

RE: Moss Vale Aboriginal Cultural Heritage Assessment - project information

Our Ref: Matter 28011

Thank you for your registration of interest in this project. We are writing to you in order to provide you with the project information and methodology packs for the proposed development at Lot 3 DP 706194 and Lot 12 DP 866036, Moss Vale, NSW. This information has been provided in accordance with the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010a) (consultation requirements).

In this letter you will find the project information pack and project methodology.

The purpose of the methodology document is to provide you with further information on the background of this assessment, as well as the methodology for how it will be conducted, including the test excavations.

Please note that comments on the project methodology pack should be received before **5 pm 16 November 2018**.

As this project will involve test excavations, the purpose of the second letter is to invite your feedback on the proposed project information and methodology packs, and to assist the proponent in the programming of groups for participation in the test excavations which will be carried out within the study area.

If you have any queries regarding the project or the information in this letter, please don't hesitate to contact us.

Yours sincerely,

Mathew Smith



Archaeologist
msmith@biosis.com.au

Project information

The following information has been provided in accordance with the consultation requirements. The aim of this document is to provide registered Aboriginal parties with information about the proposed project and the scope of the Aboriginal archaeology and cultural heritage investigations and assessment.

Study area

The study area is located at Lot 3 DP 706194 and Lot 12 DP 866036, Moss Vale, NSW, within the Wingecarribee Shire Council Local Government Area (LGA), Parish of Bong Bong, and County of Camden.

Project

Aoyuan International are proposing to develop the study area into a number of residential blocks so Biosis Pty Ltd is assisting Aoyuan International with consultation with the Aboriginal community and the Aboriginal Cultural Heritage Assessment. Consultation with the Aboriginal community will follow the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010). The purpose of the Aboriginal community consultation will be to provide sufficient information for the assessment of Aboriginal cultural heritage values and to inform the Aboriginal Cultural Heritage Assessment (ACHA). This will assist with the possible application for an AHIP, and will assist the Office of Environment and Heritage (OEH) in consideration and determination of the AHIP application.

Aboriginal cultural heritage assessment process

The assessment process includes the following steps:

Background research

Background research has been undertaken in order to identify known Aboriginal sites, areas of potential archaeological sensitivity and previous disturbance, and inform the predictive modelling for the assessment area. Background research will be conducted in line with the requirements of the *Code of Practice for the Investigation of Aboriginal Objects in New South Wales* (DECCW 2010) ('the code'). Background research for the project included the following tasks:

- Conduct heritage register searches to identify previously recorded cultural heritage sites in or within the vicinity of the proposed study area. Searches will include the Aboriginal Heritage Information Management System (AHIMS), the National Heritage List, Commonwealth Heritage List, Register of the National Estate, State Heritage Register, Local Environmental Plan and National Trust heritage lists.
- Conduct additional background research in order to recognise any identifiable regional trends in site distribution and location and provide a site prediction model for the study area.
- Undertake a comprehensive survey of the study area, identifying any previously recorded sites (on AHIMS).
- Record and assess sites identified during the survey in compliance with the guidelines issued by the OEH.
- Assess the scientific significance of all identified Aboriginal cultural heritage sites and places;

- Identify impacts to all identified Aboriginal cultural heritage sites and places based on potential ground disturbance from the proposed realignment of the road.
- Make recommendations to minimise or mitigate potential impacts of the proposed realignment upon cultural heritage values within the study area.

Consultation with the Aboriginal community

This task will allow the Aboriginal community the opportunity to participate in decisions regarding the management of their cultural heritage by providing proponents information regarding cultural significance and input into management options.

Consultation with Aboriginal stakeholders under the DECCW 2010 consultation guidelines is being undertaken to assist School Infrastructure NSW by:

- providing relevant information about the cultural significance and values of the Aboriginal object(s) and/or place(s) within the study area.
- influencing the design of the method to assess cultural and scientific significance of Aboriginal objects(s) and/or place(s) within the study area.
- actively contributing to the development of cultural heritage management plan options and recommendations for any Aboriginal object(s) and/or place(s) within the proposed study area.
- commenting on the draft assessment reports before they are submitted by the proponent to the determining authority of the proposed realignment.

Aboriginal community consultation will be undertaken in accordance with the consultation requirements which includes:

- **Completed:** Ascertaining the names of Aboriginal people or groups who may hold cultural knowledge relevant to determining the significance of Aboriginal objects and/ or places within the proposed study area. This would include writing to the following:
 - Office of Environment and Heritage (OEH)
 - Local Aboriginal Land Council (LALC)
 - Office of the Registrar (Aboriginal Land Rights Act 1983)
 - National Native Title Tribunal (NNTT)
 - Native Title Services Corporation Limited (NTSCORP Limited)
 - Relevant Local Councils
 - Relevant Catchment Management Authorities
- **Completed:** Bosis will undertake the 'Placement of Notification' (Public Notice) in the *newspaper*, on behalf of Client, that must include details of the proponent, the project, the exact location, and statement of the purpose of the community consultation in preparation for possible test excavations and AHIPs. The Public Notice is also an invitation for Aboriginal people who hold relevant cultural knowledge about the study area. A closing date for the registration must be included and be no less than **14 days. Registration closed on 26 September 2018.**

- **Completed:** Aboriginal people or groups identified would be provided with notification of the proposed project via Biosis and given the opportunity to be involved in consultation. **Registrations of interest closed on 26 September 2018.**
- A list of Aboriginal people or groups who register an interest in the project will be forwarded to the OEH and the LALC by Biosis no later than **28 days** following close of registration. This list will not include those people or groups who specified that they did not want their details shared with OEH or the LALC.
- Biosis will provide details of the project and methodology for the archaeological assessment to the registered parties. The registered Aboriginal parties must be given an opportunity to review and provide feedback to the proponent within a minimum of **28 days** of the Biosis providing the methodology document.
- Selected representatives of the registered Aboriginal parties will be given the opportunity to participate in test excavations within the study area.
- The DRAFT ACHAR and Archaeological Report will be provided to all registered Aboriginal parties for comment – the proponent must allow **28 days** for comment. All comments and correspondence sent and received regarding the project will be included in the final report in an Appendix.

Field survey

An Aboriginal archaeological survey of the assessment area was undertaken in September 2018 by Biosis archaeologist Mathew Smith and Duncan Falk of Duncan Falk Consulting. This was undertaken in accordance with the guidelines outlined in the code in order to identify any previously unknown Aboriginal objects, sites or places, should they be present and to inspect previously recorded sites within the study area.

Two existing sites are located within the study area. Chelsea gardens Locale site 1 (AHIMS 52-4-0193) was located in the north eastern corner of the study area and contained artefacts eroding out of a silage pit. The second site was Chelsea gardens Locale site 2 (AHIMS 52-4-0194) and was located on a small knoll in the northern section of the study area. This site consisted of 10 artefacts eroding out soil profile. Both sites contained moderate potential for archaeological deposits.

The survey also identified two areas of moderate Aboriginal archaeological potential within the study area that were not associated with existing sites. These two areas were both located on hill crests. The rest of the study area contained low archaeological potential. These areas consisted of flat and hillslopes landforms, which due to the distance from water, the intensive use of these areas for cropping and livestock grazing and the steep slopes, contained low potential

Test excavation

The survey has identified the need for further assessment in the form of test excavations. This will be undertaken in accordance with the code. Further information on the methodology for this test excavation and the areas of potential archaeological deposit within the study area is available in the project methodology.

Reporting

A draft report will be prepared in accordance with the code and will include:

- Background and project description.
- A summary and analysis of the findings including the presence and location of registered or new identified Aboriginal artefacts or heritage items within the study area.
- A summary of any other relevant studies or surveys which have relevance to the assessment area.
- A summary of the landscape features of the site which may indicate a history of Aboriginal activity.
- A summary of previous land use that may have affected the retention of intact Aboriginal archaeology in the landscape.
- The potential or likelihood for the proposed works to uncover or expose potential undiscovered Aboriginal objects.
- Survey and test excavation results.
- Legislative implications of the proposed works.
- Recommendations and justification for further assessment (if required).
- Mitigation measures (if any) required for the works to proceed.
- Mapping will be carried out to show the location of registered and newly located (if any) Aboriginal sites in relation to the proposed works.

Registered Aboriginal parties will be provided with the draft report for comment and allowed 28 days for review.

The final report will incorporate all comments.

Project schedule

The proposed schedule and broad time allocations for the consultation stages are summarised below.

Action	Timeframe	Notes
Commencement of Aboriginal community consultation – advertising of project, Notification to stakeholders etc.	Completed	Project advertised in <i>Southern Highlands News</i> on 5 September 2018; notices sent to stakeholders 12 September 2018.
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Provision of client-reviewed DRAFT Methodology Document to registered Aboriginal stakeholders for review and comment – these methods will form the basis for all archaeological and cultural heritage work	TBC	28 days review time allowed under OEH Aboriginal community consultation guidelines.
Test excavations	TBC	
Information gathering		Until finalisation of the report

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Completion and finalisation of report	TBC	

Responsibilities and roles

As part of the consultation process registered Aboriginal parties are invited to respond to requests for cultural information and comment on draft reporting, as appropriate in accordance with their role specified in the guidelines (DECCW 2010a, p. 16). Biosis and the proponent, in accordance with their role under the guidelines, will consult with the Aboriginal community by supplying suitable project information and providing the opportunity for Aboriginal stakeholders to provide input into the heritage management process (DECCW 2010a, pp. 16-17).

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Department of Environment, Climate Change and Water. 2010b. Aboriginal cultural heritage consultation requirements for proponents 2010. NSW Department of Environment, Climate Change and Water, Sydney NSW.

RE: Moss Vale Aboriginal Cultural Heritage Assessment - Project methodology

Our Ref: Matter 28011

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In accordance with the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010) (consultation requirements), we provide the proposed methodology for the Aboriginal Cultural Heritage Assessment (ACHA) for your review and feedback.

It would be appreciated if you would provide feedback on the methodology presented in this letter to Biosis Pty Ltd by **5 pm 16 November 2018** either by email, phone or return mail.

Please address feedback on the methodology to:

Mathew Smith
Biosis Pty Ltd
8 Tate Street
Wollongong NSW 2500
msmith@biosis.com.au

Please do not hesitate to contact me if you require additional information or have any queries about the methodology or information provided.

Kind regards,

A handwritten signature in blue ink that reads 'M Smith'.

Mathew Smith

Archaeologist
msmith@biosis.com.au

Stage 3: Moss Vale Aboriginal Cultural Heritage Assessment: Methodology for test excavations

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Biosis Pty Ltd recently completed an archaeological survey of the study area for Aboriginal archaeological heritage for the proposed works. Biosis identified two existing sites with areas of moderate potential and two areas of moderate potential on a crest landform within the study area (Figure 3). The two existing sites consisted of Chelsea Gardens Locale 1, an artefact scatter that was eroding out of a silage pit, and Chelsea Gardens Locale 2, an artefact scatter located eroding out of a small knoll. Both sites contained moderate archaeological potential. The proposed development will impact on these areas of potential, and as such further assessment would be required in the form of subsurface test excavations and an application for an Aboriginal Heritage Impact Permit (AHIP). The proposed methodology is detailed below for these test excavations.

Test excavation methodology

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The principle objectives of the subsurface test excavations are to identify and understand the nature, extent and significance of any archaeological sites located within areas of archaeological potential.

The aims of the testing program are to:

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Test excavation sampling strategy

Test excavations across the study area will conform to the following methodology:

- Test excavations will be undertaken in areas identified as having the potential to contain Aboriginal cultural material.

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 - Munsell soil colour, texture and pH.
 - Amount and location of cultural material within the deposit.
 - Nature of disturbance where present.
 - Stratigraphy.
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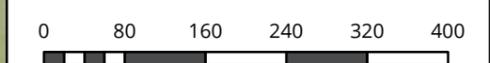
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Standard protocol for the discovery of any human remains is to be followed in the event that human remains are discovered.



Legend
 Study area

Figure 1: Study area detail



Metres
 Scale: 1:7,000 @ A3
 Coordinate System: GDA 1994 NSW Lambert



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 Newcastle, Sydney, Wangaratta & Wollongong

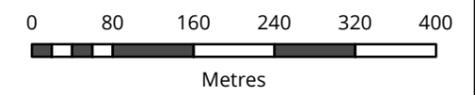
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Legend

-  Study area
-  Survey tracks
- Survey results**
-  Artefact sites with PAD
-  Moderate potential

Figure 2: Survey results



Scale: 1:7,000 @ A3
Coordinate System: GDA 1994 NSW Lambert



Albury, Ballarat, Melbourne,
Newcastle, Sydney, Wangaratta & Wollongong

19 October 2018

Individual

James Davis

2 Poplar Avenue

Unanderra NSW 2526

Dear James,

RE: Moss Vale Aboriginal Cultural Heritage Assessment - project information
Our Ref: Matter 28011

Thank you for your registration of interest in this project. We are writing to you in order to provide you with the project information and methodology packs for the proposed development at Lot 3 DP 706194 and Lot 12 DP 866036, Moss Vale, NSW. This information has been provided in accordance with the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010a) (consultation requirements).

In this letter you will find the project information pack and project methodology.

The purpose of the methodology document is to provide you with further information on the background of this assessment, as well as the methodology for how it will be conducted, including the test excavations.

Please note that comments on the project methodology pack should be received before **5 pm 16 November 2018**.

As this project will involve test excavations, the purpose of the second letter is to invite your feedback on the proposed project information and methodology packs, and to assist the proponent in the programming of groups for participation in the test excavations which will be carried out within the study area.

If you have any queries regarding the project or the information in this letter, please don't hesitate to contact us.

Yours sincerely,

Mathew Smith



Archaeologist
msmith@biosis.com.au

Project information

The following information has been provided in accordance with the consultation requirements. The aim of this document is to provide registered Aboriginal parties with information about the proposed project and the scope of the Aboriginal archaeology and cultural heritage investigations and assessment.

Study area

The study area is located at Lot 3 DP 706194 and Lot 12 DP 866036, Moss Vale, NSW, within the Wingecarribee Shire Council Local Government Area (LGA), Parish of Bong Bong, and County of Camden.

Project

Aoyuan International are proposing to develop the study area into a number of residential blocks so Biosis Pty Ltd is assisting Aoyuan International with consultation with the Aboriginal community and the Aboriginal Cultural Heritage Assessment. Consultation with the Aboriginal community will follow the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010). The purpose of the Aboriginal community consultation will be to provide sufficient information for the assessment of Aboriginal cultural heritage values and to inform the Aboriginal Cultural Heritage Assessment (ACHA). This will assist with the possible application for an AHIP, and will assist the Office of Environment and Heritage (OEH) in consideration and determination of the AHIP application.

Aboriginal cultural heritage assessment process

The assessment process includes the following steps:

Background research

Background research has been undertaken in order to identify known Aboriginal sites, areas of potential archaeological sensitivity and previous disturbance, and inform the predictive modelling for the assessment area. Background research will be conducted in line with the requirements of the *Code of Practice for the Investigation of Aboriginal Objects in New South Wales* (DECCW 2010) ('the code'). Background research for the project included the following tasks:

- Conduct heritage register searches to identify previously recorded cultural heritage sites in or within the vicinity of the proposed study area. Searches will include the Aboriginal Heritage Information Management System (AHIMS), the National Heritage List, Commonwealth Heritage List, Register of the National Estate, State Heritage Register, Local Environmental Plan and National Trust heritage lists.
- Conduct additional background research in order to recognise any identifiable regional trends in site distribution and location and provide a site prediction model for the study area.
- Undertake a comprehensive survey of the study area, identifying any previously recorded sites (on AHIMS).
- Record and assess sites identified during the survey in compliance with the guidelines issued by the OEH.
- Assess the scientific significance of all identified Aboriginal cultural heritage sites and places;

- Identify impacts to all identified Aboriginal cultural heritage sites and places based on potential ground disturbance from the proposed realignment of the road.
- Make recommendations to minimise or mitigate potential impacts of the proposed realignment upon cultural heritage values within the study area.

Consultation with the Aboriginal community

This task will allow the Aboriginal community the opportunity to participate in decisions regarding the management of their cultural heritage by providing proponents information regarding cultural significance and input into management options.

Consultation with Aboriginal stakeholders under the DECCW 2010 consultation guidelines is being undertaken to assist School Infrastructure NSW by:

- providing relevant information about the cultural significance and values of the Aboriginal object(s) and/or place(s) within the study area.
- influencing the design of the method to assess cultural and scientific significance of Aboriginal objects(s) and/or place(s) within the study area.
- actively contributing to the development of cultural heritage management plan options and recommendations for any Aboriginal object(s) and/or place(s) within the proposed study area.
- commenting on the draft assessment reports before they are submitted by the proponent to the determining authority of the proposed realignment.

Aboriginal community consultation will be undertaken in accordance with the consultation requirements which includes:

- **Completed:** Ascertaining the names of Aboriginal people or groups who may hold cultural knowledge relevant to determining the significance of Aboriginal objects and/ or places within the proposed study area. This would include writing to the following:
 - Office of Environment and Heritage (OEH)
 - Local Aboriginal Land Council (LALC)
 - Office of the Registrar (Aboriginal Land Rights Act 1983)
 - National Native Title Tribunal (NNTT)
 - Native Title Services Corporation Limited (NTSCORP Limited)
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- **Completed:** Bosis will undertake the 'Placement of Notification' (Public Notice) in the *newspaper*, on behalf of Client, that must include details of the proponent, the project, the exact location, and statement of the purpose of the community consultation in preparation for possible test excavations and AHIPs. The Public Notice is also an invitation for Aboriginal people who hold relevant cultural knowledge about the study area. A closing date for the registration must be included and be no less than **14 days. Registration closed on 26 September 2018.**

- **Completed:** Aboriginal people or groups identified would be provided with notification of the proposed project via Biosis and given the opportunity to be involved in consultation. **Registrations of interest closed on 26 September 2018.**
- A list of Aboriginal people or groups who register an interest in the project will be forwarded to the OEH and the LALC by Biosis no later than **28 days** following close of registration. This list will not include those people or groups who specified that they did not want their details shared with OEH or the LALC.
- Biosis will provide details of the project and methodology for the archaeological assessment to the registered parties. The registered Aboriginal parties must be given an opportunity to review and provide feedback to the proponent within a minimum of **28 days** of the Biosis providing the methodology document.
- Selected representatives of the registered Aboriginal parties will be given the opportunity to participate in test excavations within the study area.
- The DRAFT ACHAR and Archaeological Report will be provided to all registered Aboriginal parties for comment – the proponent must allow **28 days** for comment. All comments and correspondence sent and received regarding the project will be included in the final report in an Appendix.

Field survey

An Aboriginal archaeological survey of the assessment area was undertaken in September 2018 by Biosis archaeologist Mathew Smith and Duncan Falk of Duncan Falk Consulting. This was undertaken in accordance with the guidelines outlined in the code in order to identify any previously unknown Aboriginal objects, sites or places, should they be present and to inspect previously recorded sites within the study area.

Two existing sites are located within the study area. Chelsea gardens Locale site 1 (AHIMS 52-4-0193) was located in the north eastern corner of the study area and contained artefacts eroding out of a silage pit. The second site was Chelsea gardens Locale site 2 (AHIMS 52-4-0194) and was located on a small knoll in the northern section of the study area. This site consisted of 10 artefacts eroding out soil profile. Both sites contained moderate potential for archaeological deposits.

The survey also identified two areas of moderate Aboriginal archaeological potential within the study area that were not associated with existing sites. These two areas were both located on hill crests. The rest of the study area contained low archaeological potential. These areas consisted of flat and hillslopes landforms, which due to the distance from water, the intensive use of these areas for cropping and livestock grazing and the steep slopes, contained low potential

Test excavation

The survey has identified the need for further assessment in the form of test excavations. This will be undertaken in accordance with the code. Further information on the methodology for this test excavation and the areas of potential archaeological deposit within the study area is available in the project methodology.

Reporting

A draft report will be prepared in accordance with the code and will include:

- Background and project description.
- A summary and analysis of the findings including the presence and location of registered or new identified Aboriginal artefacts or heritage items within the study area.
- A summary of any other relevant studies or surveys which have relevance to the assessment area.
- A summary of the landscape features of the site which may indicate a history of Aboriginal activity.
- A summary of previous land use that may have affected the retention of intact Aboriginal archaeology in the landscape.
- The potential or likelihood for the proposed works to uncover or expose potential undiscovered Aboriginal objects.
- Survey and test excavation results.
- Legislative implications of the proposed works.
- Recommendations and justification for further assessment (if required).
- Mitigation measures (if any) required for the works to proceed.
- Mapping will be carried out to show the location of registered and newly located (if any) Aboriginal sites in relation to the proposed works.

Registered Aboriginal parties will be provided with the draft report for comment and allowed 28 days for review.

The final report will incorporate all comments.

Project schedule

The proposed schedule and broad time allocations for the consultation stages are summarised below.

Action	Timeframe	Notes
Commencement of Aboriginal community consultation – advertising of project, Notification to stakeholders etc.	Completed	Project advertised in <i>Southern Highlands News</i> on 5 September 2018; notices sent to stakeholders 12 September 2018.
Field survey	Completed	Survey undertaken by Biosis archaeologist Mathew Smith and Duncan Falk of Duncan Falk Consultancy in September 2018.
Provision of client-reviewed DRAFT Methodology Document to registered Aboriginal stakeholders for review and comment – these methods will form the basis for all archaeological and cultural heritage work	TBC	28 days review time allowed under OEH Aboriginal community consultation guidelines.
Test excavations	TBC	
Information gathering		Until finalisation of the report

Action	Timeframe	Notes
Review of the draft report	TBC	28 days review time allowed under OEH Aboriginal community consultation guidelines
Completion and finalisation of report	TBC	

Responsibilities and roles

As part of the consultation process registered Aboriginal parties are invited to respond to requests for cultural information and comment on draft reporting, as appropriate in accordance with their role specified in the guidelines (DECCW 2010a, p. 16). Biosis and the proponent, in accordance with their role under the guidelines, will consult with the Aboriginal community by supplying suitable project information and providing the opportunity for Aboriginal stakeholders to provide input into the heritage management process (DECCW 2010a, pp. 16-17).

Each section of the methodology will be undertaken in consultation with the Aboriginal stakeholders. Biosis invites Aboriginal stakeholders to provide culturally appropriate information via mail, email or phone with regards to this project.

Cultural information provided will be recorded in the Aboriginal consultation log and discussed in the report. If the information is regarded as too sensitive to be made public then the Aboriginal stakeholder should advise Biosis and identify the nature of the sensitivity. Biosis will then arrange for the recording of the information in accordance with its sensitivity. Documents which hold sensitive information will clearly list, on the front cover, who can have access to the document. These documents will be stored securely.

References

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Department of Environment, Climate Change and Water. 2010b. Aboriginal cultural heritage consultation requirements for proponents 2010. NSW Department of Environment, Climate Change and Water, Sydney NSW.

RE: Moss Vale Aboriginal Cultural Heritage Assessment - Project methodology

Our Ref: Matter 28011

This letter is being provided to all the Registered Aboriginal Parties (RAPs) who registered their interest in the consultation process for the Moss Vale development being undertaken by Aoyuan International (Figure 1, Figure 2).

In accordance with the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010) (consultation requirements), we provide the proposed methodology for the Aboriginal Cultural Heritage Assessment (ACHA) for your review and feedback.

It would be appreciated if you would provide feedback on the methodology presented in this letter to Biosis Pty Ltd by **5 pm 16 November 2018** either by email, phone or return mail.

Please address feedback on the methodology to:

Mathew Smith
Biosis Pty Ltd
8 Tate Street
Wollongong NSW 2500
msmith@biosis.com.au

Please do not hesitate to contact me if you require additional information or have any queries about the methodology or information provided.

Kind regards,

A handwritten signature in blue ink that reads 'M Smith'.

Mathew Smith

Archaeologist
msmith@biosis.com.au

Stage 3: Moss Vale Aboriginal Cultural Heritage Assessment: Methodology for test excavations

The following information has been provided in accordance with the consultation requirements. The aim of this document is to provide registered Aboriginal parties (RAPs) with the proposed methodology for the cultural heritage and archaeological assessment.

Biosis Pty Ltd recently completed an archaeological survey of the study area for Aboriginal archaeological heritage for the proposed works. Biosis identified two existing sites with areas of moderate potential and two areas of moderate potential on a crest landform within the study area (Figure 3). The two existing sites consisted of Chelsea Gardens Locale 1, an artefact scatter that was eroding out of a silage pit, and Chelsea Gardens Locale 2, an artefact scatter located eroding out of a small knoll. Both sites contained moderate archaeological potential. The proposed development will impact on these areas of potential, and as such further assessment would be required in the form of subsurface test excavations and an application for an Aboriginal Heritage Impact Permit (AHIP). The proposed methodology is detailed below for these test excavations.

Test excavation methodology

Aims of the sub-surface test excavations

The principle objectives of the subsurface test excavations are to identify and understand the nature, extent and significance of any archaeological sites located within areas of archaeological potential.

The aims of the testing program are to:

- Determine whether sub-surface archaeological deposits exist which may be impacted by the development.
- If so, to determine the extent and nature of such deposits.
- Identify if the archaeological material occurs in an intact, undisturbed context, by examining the soil profile and stratigraphy.
- Analyse and interpret any archaeological finds (such as stone artefacts, shell midden deposits, etc.) recovered during the testing program.
- Inform current knowledge of Aboriginal occupation and land use models of the region.
- Provide management and mitigation measures for Aboriginal archaeological objects located during the subsurface testing program.

Test excavation sampling strategy

Test excavations across the study area will conform to the following methodology:

- Test excavations will be undertaken in areas identified as having the potential to contain Aboriginal cultural material.

- Test excavation units will consist of one 50 cm x 50 cm test pit, in order to determine the nature of sub-surface deposit and presence of any possible archaeological deposits.
- Test excavations units must be excavated using hand tools only including spades, handle shovels, and trowels.
- The first test excavation unit will be excavated and documented in 5 cm spits and all following units. All material excavated from the test excavation units must be sieved using nested 5 mm aperture wire-mesh sieves.
- Test excavation units must be excavated to at least the base of the identified Aboriginal object-bearing units, and must continue to confirm the soils below are culturally sterile.
- All cultural material will be collected, bagged and clearly labelled. They will be temporarily stored in the Biosis office for analysis (at Unit 14, 17-27 Power Avenue, Alexandria).
- The following documentation will be taken for the test pit:
 - Unique test pit identification number.
 - GPS coordinate.
 - Munsell soil colour, texture and pH.
 - Amount and location of cultural material within the deposit.
 - Nature of disturbance where present.
 - Stratigraphy.
 - Archaeological features (if present).
 - Photographic records.
 - Spit records.
- The test excavation unit must be backfilled as soon as practicable due to safety issues.

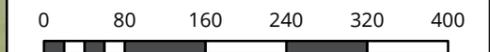
Following test excavation, an Aboriginal Site Recording form must be completed and submitted to the AHIMS Registrar, as soon as practicable, for each AHIMS site that has been identified.

Standard protocol for the discovery of any human remains is to be followed in the event that human remains are discovered.



Legend
 Study area

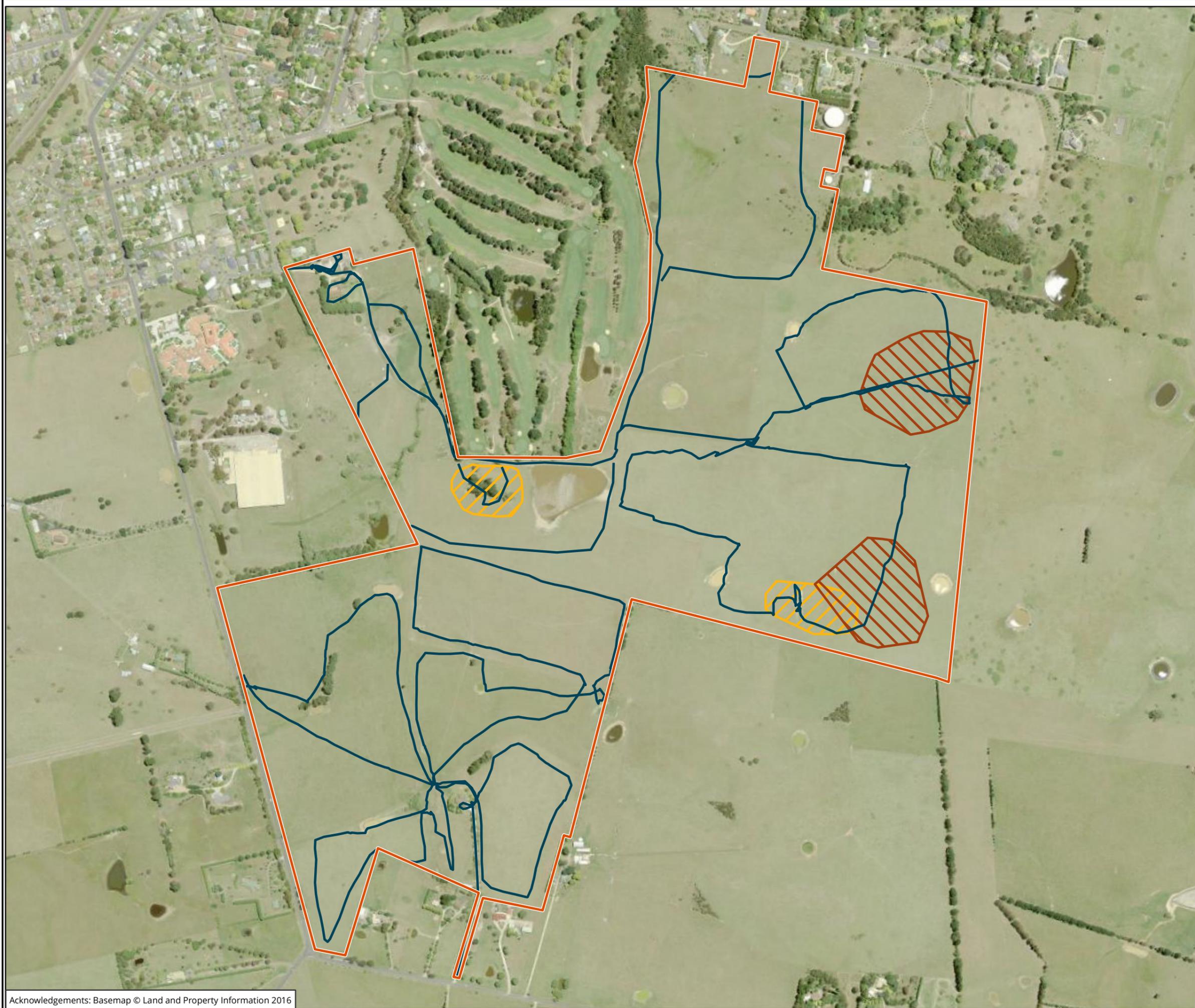
Figure 1: Study area detail



Metres
 Scale: 1:7,000 @ A3
 Coordinate System: GDA 1994 NSW Lambert



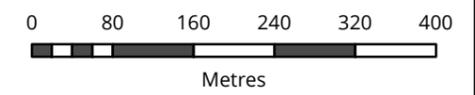
Matter: 28011
 Date: 09 October 2018,
 Checked by: MJS, Drawn by: JSP, Last edited by: lwilson
 Location: P:\28000s\28011\Mapping\28011_F2_StudyArea



Legend

-  Study area
-  Survey tracks
- Survey results**
-  Artefact sites with PAD
-  Moderate potential

Figure 2: Survey results



Scale: 1:7,000 @ A3
 Coordinate System: GDA 1994 NSW Lambert



Albury, Ballarat, Melbourne,
 Newcastle, Sydney, Wangaratta & Wollongong

19 October 2018

Tungai Tonghi

Troy Tungai

Dear Troy,

RE: Moss Vale Aboriginal Cultural Heritage Assessment – project information

Our Ref: Matter 28011

Thank you for your registration of interest in this project. We are writing to you in order to provide you with the project information and methodology packs for the proposed development at Lot 3 DP 706194 and Lot 12 DP 866036, Moss Vale, NSW. This information has been provided in accordance with the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010a) (consultation requirements).

In this letter you will find the project information pack and project methodology.

The purpose of the methodology document is to provide you with further information on the background of this assessment, as well as the methodology for how it will be conducted, including the test excavations.

Please note that comments on the project methodology pack should be received before **5 pm 16 November 2018**.

As this project will involve test excavations, the purpose of the second letter is to invite your feedback on the proposed project information and methodology packs, and to assist the proponent in the programming of groups for participation in the test excavations which will be carried out within the study area.

If you have any queries regarding the project or the information in this letter, please don't hesitate to contact us.

Yours sincerely,

Mathew Smith



Archaeologist
msmith@biosis.com.au

Project information

The following information has been provided in accordance with the consultation requirements. The aim of this document is to provide registered Aboriginal parties with information about the proposed project and the scope of the Aboriginal archaeology and cultural heritage investigations and assessment.

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Aboriginal cultural heritage assessment process

The assessment process includes the following steps:

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Background research has been undertaken in order to identify known Aboriginal sites, areas of potential archaeological sensitivity and previous disturbance, and inform the predictive modelling for the assessment area. Background research will be conducted in line with the requirements of the *Code of Practice for the Investigation of Aboriginal Objects in New South Wales* (DECCW 2010) ('the code'). Background research for the project included the following tasks:

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A draft report will be prepared in accordance with the code and will include:

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- The potential or likelihood for the proposed works to uncover or expose potential undiscovered Aboriginal objects.
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Registered Aboriginal parties will be provided with the draft report for comment and allowed 28 days for review.

The final report will incorporate all comments.

Project schedule

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RE: Moss Vale Aboriginal Cultural Heritage Assessment - Project methodology

Our Ref: Matter 28011

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Please do not hesitate to contact me if you require additional information or have any queries about the methodology or information provided.

Kind regards,

A handwritten signature in blue ink that reads "M Smith".

Mathew Smith

Archaeologist
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Stage 3: Moss Vale Aboriginal Cultural Heritage Assessment: Methodology for test excavations

The following information has been provided in accordance with the consultation requirements. The aim of this document is to provide registered Aboriginal parties (RAPs) with the proposed methodology for the cultural heritage and archaeological assessment.

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Test excavation methodology

Aims of the sub-surface test excavations

The principle objectives of the subsurface test excavations are to identify and understand the nature, extent and significance of any archaeological sites located within areas of archaeological potential.

The aims of the testing program are to:

- Determine whether sub-surface archaeological deposits exist which may be impacted by the development.
- If so, to determine the extent and nature of such deposits.
- Identify if the archaeological material occurs in an intact, undisturbed context, by examining the soil profile and stratigraphy.
- Analyse and interpret any archaeological finds (such as stone artefacts, shell midden deposits, etc.) recovered during the testing program.
- Inform current knowledge of Aboriginal occupation and land use models of the region.
- Provide management and mitigation measures for Aboriginal archaeological objects located during the subsurface testing program.

Test excavation sampling strategy

Test excavations across the study area will conform to the following methodology:

- Test excavations will be undertaken in areas identified as having the potential to contain Aboriginal cultural material.

- Test excavation units will consist of one 50 cm x 50 cm test pit, in order to determine the nature of sub-surface deposit and presence of any possible archaeological deposits.
- Test excavations units must be excavated using hand tools only including spades, handle shovels, and trowels.
- The first test excavation unit will be excavated and documented in 5 cm spits and all following units. All material excavated from the test excavation units must be sieved using nested 5 mm aperture wire-mesh sieves.
- Test excavation units must be excavated to at least the base of the identified Aboriginal object-bearing units, and must continue to confirm the soils below are culturally sterile.
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 - Unique test pit identification number.
 - GPS coordinate.
 - Munsell soil colour, texture and pH.
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 - Nature of disturbance where present.
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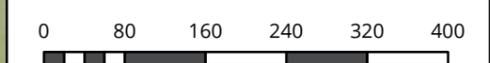
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Standard protocol for the discovery of any human remains is to be followed in the event that human remains are discovered.



Legend
 Study area

Figure 1: Study area detail



Metres
 Scale: 1:7,000 @ A3
 Coordinate System: GDA 1994 NSW Lambert



biosis
 Biosis Pty Ltd
 Albury, Ballarat, Melbourne,
 Newcastle, Sydney, Wangaratta & Wollongong

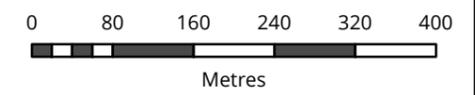
Matter: 28011
 Date: 09 October 2018,
 Checked by: MJS, Drawn by: JSP, Last edited by: lwilson
 Location: P:\28000s\28011\Mapping\28011_F2_StudyArea



Legend

-  Study area
-  Survey tracks
- Survey results**
-  Artefact sites with PAD
-  Moderate potential

Figure 2: Survey results



Scale: 1:7,000 @ A3
 Coordinate System: GDA 1994 NSW Lambert



Albury, Ballarat, Melbourne,
 Newcastle, Sydney, Wangaratta & Wollongong

19 October 2018
Cubbitch Barta
Glenda Chlaker
55 Nightingale Road
Pheasants Nest NSW 2574

Dear Glenda,

RE: Moss Vale Aboriginal Cultural Heritage Assessment - project information
Our Ref: Matter 28011

Thank you for your registration of interest in this project. We are writing to you in order to provide you with the project information and methodology packs for the proposed development at Lot 3 DP 706194 and Lot 12 DP 866036, Moss Vale, NSW. This information has been provided in accordance with the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010a) (consultation requirements).

In this letter you will find the project information pack and project methodology.

The purpose of the methodology document is to provide you with further information on the background of this assessment, as well as the methodology for how it will be conducted, including the test excavations.

Please note that comments on the project methodology pack should be received before **5 pm 16 November 2018**.

As this project will involve test excavations, the purpose of the second letter is to invite your feedback on the proposed project information and methodology packs, and to assist the proponent in the programming of groups for participation in the test excavations which will be carried out within the study area.

If you have any queries regarding the project or the information in this letter, please don't hesitate to contact us.

Yours sincerely,

Mathew Smith



Archaeologist
msmith@biosis.com.au

Project information

The following information has been provided in accordance with the consultation requirements. The aim of this document is to provide registered Aboriginal parties with information about the proposed project and the scope of the Aboriginal archaeology and cultural heritage investigations and assessment.

Study area

The study area is located at Lot 3 DP 706194 and Lot 12 DP 866036, Moss Vale, NSW, within the Wingecarribee Shire Council Local Government Area (LGA), Parish of Bong Bong, and County of Camden.

Project

Aoyuan International are proposing to develop the study area into a number of residential blocks so Biosis Pty Ltd is assisting Aoyuan International with consultation with the Aboriginal community and the Aboriginal Cultural Heritage Assessment. Consultation with the Aboriginal community will follow the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010). The purpose of the Aboriginal community consultation will be to provide sufficient information for the assessment of Aboriginal cultural heritage values and to inform the Aboriginal Cultural Heritage Assessment (ACHA). This will assist with the possible application for an AHIP, and will assist the Office of Environment and Heritage (OEH) in consideration and determination of the AHIP application.

Aboriginal cultural heritage assessment process

The assessment process includes the following steps:

Background research

Background research has been undertaken in order to identify known Aboriginal sites, areas of potential archaeological sensitivity and previous disturbance, and inform the predictive modelling for the assessment area. Background research will be conducted in line with the requirements of the *Code of Practice for the Investigation of Aboriginal Objects in New South Wales* (DECCW 2010) ('the code'). Background research for the project included the following tasks:

- Conduct heritage register searches to identify previously recorded cultural heritage sites in or within the vicinity of the proposed study area. Searches will include the Aboriginal Heritage Information Management System (AHIMS), the National Heritage List, Commonwealth Heritage List, Register of the National Estate, State Heritage Register, Local Environmental Plan and National Trust heritage lists.
- Conduct additional background research in order to recognise any identifiable regional trends in site distribution and location and provide a site prediction model for the study area.
- Undertake a comprehensive survey of the study area, identifying any previously recorded sites (on AHIMS).
- Record and assess sites identified during the survey in compliance with the guidelines issued by the OEH.
- Assess the scientific significance of all identified Aboriginal cultural heritage sites and places;

- Identify impacts to all identified Aboriginal cultural heritage sites and places based on potential ground disturbance from the proposed realignment of the road.
- Make recommendations to minimise or mitigate potential impacts of the proposed realignment upon cultural heritage values within the study area.

Consultation with the Aboriginal community

This task will allow the Aboriginal community the opportunity to participate in decisions regarding the management of their cultural heritage by providing proponents information regarding cultural significance and input into management options.

Consultation with Aboriginal stakeholders under the DECCW 2010 consultation guidelines is being undertaken to assist School Infrastructure NSW by:

- providing relevant information about the cultural significance and values of the Aboriginal object(s) and/or place(s) within the study area.
- influencing the design of the method to assess cultural and scientific significance of Aboriginal objects(s) and/or place(s) within the study area.
- actively contributing to the development of cultural heritage management plan options and recommendations for any Aboriginal object(s) and/or place(s) within the proposed study area.
- commenting on the draft assessment reports before they are submitted by the proponent to the determining authority of the proposed realignment.

Aboriginal community consultation will be undertaken in accordance with the consultation requirements which includes:

- **Completed:** Ascertaining the names of Aboriginal people or groups who may hold cultural knowledge relevant to determining the significance of Aboriginal objects and/ or places within the proposed study area. This would include writing to the following:
 - Office of Environment and Heritage (OEH)
 - Local Aboriginal Land Council (LALC)
 - Office of the Registrar (Aboriginal Land Rights Act 1983)
 - National Native Title Tribunal (NNTT)
 - Native Title Services Corporation Limited (NTSCORP Limited)
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- **Completed:** Bosis will undertake the 'Placement of Notification' (Public Notice) in the *newspaper*, on behalf of Client, that must include details of the proponent, the project, the exact location, and statement of the purpose of the community consultation in preparation for possible test excavations and AHIPs. The Public Notice is also an invitation for Aboriginal people who hold relevant cultural knowledge about the study area. A closing date for the registration must be included and be no less than **14 days. Registration closed on 26 September 2018.**

- **Completed:** Aboriginal people or groups identified would be provided with notification of the proposed project via Biosis and given the opportunity to be involved in consultation. **Registrations of interest closed on 26 September 2018.**
- A list of Aboriginal people or groups who register an interest in the project will be forwarded to the OEH and the LALC by Biosis no later than **28 days** following close of registration. This list will not include those people or groups who specified that they did not want their details shared with OEH or the LALC.
- Biosis will provide details of the project and methodology for the archaeological assessment to the registered parties. The registered Aboriginal parties must be given an opportunity to review and provide feedback to the proponent within a minimum of **28 days** of the Biosis providing the methodology document.
- Selected representatives of the registered Aboriginal parties will be given the opportunity to participate in test excavations within the study area.
- The DRAFT ACHAR and Archaeological Report will be provided to all registered Aboriginal parties for comment – the proponent must allow **28 days** for comment. All comments and correspondence sent and received regarding the project will be included in the final report in an Appendix.

Field survey

An Aboriginal archaeological survey of the assessment area was undertaken in September 2018 by Biosis archaeologist Mathew Smith and Duncan Falk of Duncan Falk Consulting. This was undertaken in accordance with the guidelines outlined in the code in order to identify any previously unknown Aboriginal objects, sites or places, should they be present and to inspect previously recorded sites within the study area.

Two existing sites are located within the study area. Chelsea gardens Locale site 1 (AHIMS 52-4-0193) was located in the north eastern corner of the study area and contained artefacts eroding out of a silage pit. The second site was Chelsea gardens Locale site 2 (AHIMS 52-4-0194) and was located on a small knoll in the northern section of the study area. This site consisted of 10 artefacts eroding out soil profile. Both sites contained moderate potential for archaeological deposits.

The survey also identified two areas of moderate Aboriginal archaeological potential within the study area that were not associated with existing sites. These two areas were both located on hill crests. The rest of the study area contained low archaeological potential. These areas consisted of flat and hillslopes landforms, which due to the distance from water, the intensive use of these areas for cropping and livestock grazing and the steep slopes, contained low potential

Test excavation

The survey has identified the need for further assessment in the form of test excavations. This will be undertaken in accordance with the code. Further information on the methodology for this test excavation and the areas of potential archaeological deposit within the study area is available in the project methodology.

Reporting

A draft report will be prepared in accordance with the code and will include:

- Background and project description.
- A summary and analysis of the findings including the presence and location of registered or new identified Aboriginal artefacts or heritage items within the study area.
- A summary of any other relevant studies or surveys which have relevance to the assessment area.
- A summary of the landscape features of the site which may indicate a history of Aboriginal activity.
- A summary of previous land use that may have affected the retention of intact Aboriginal archaeology in the landscape.
- The potential or likelihood for the proposed works to uncover or expose potential undiscovered Aboriginal objects.
- Survey and test excavation results.
- Legislative implications of the proposed works.
- Recommendations and justification for further assessment (if required).
- Mitigation measures (if any) required for the works to proceed.
- Mapping will be carried out to show the location of registered and newly located (if any) Aboriginal sites in relation to the proposed works.

Registered Aboriginal parties will be provided with the draft report for comment and allowed 28 days for review.

The final report will incorporate all comments.

Project schedule

The proposed schedule and broad time allocations for the consultation stages are summarised below.

Action	Timeframe	Notes
Commencement of Aboriginal community consultation – advertising of project, Notification to stakeholders etc.	Completed	Project advertised in <i>Southern Highlands News</i> on 5 September 2018; notices sent to stakeholders 12 September 2018.
Field survey	Completed	Survey undertaken by Biosis archaeologist Mathew Smith and Duncan Falk of Duncan Falk Consultancy in September 2018.
Provision of client-reviewed DRAFT Methodology Document to registered Aboriginal stakeholders for review and comment – these methods will form the basis for all archaeological and cultural heritage work	TBC	28 days review time allowed under OEH Aboriginal community consultation guidelines.
Test excavations	TBC	
Information gathering		Until finalisation of the report

Action	Timeframe	Notes
Review of the draft report	TBC	28 days review time allowed under OEH Aboriginal community consultation guidelines
Completion and finalisation of report	TBC	

Responsibilities and roles

As part of the consultation process registered Aboriginal parties are invited to respond to requests for cultural information and comment on draft reporting, as appropriate in accordance with their role specified in the guidelines (DECCW 2010a, p. 16). Biosis and the proponent, in accordance with their role under the guidelines, will consult with the Aboriginal community by supplying suitable project information and providing the opportunity for Aboriginal stakeholders to provide input into the heritage management process (DECCW 2010a, pp. 16-17).

Each section of the methodology will be undertaken in consultation with the Aboriginal stakeholders. Biosis invites Aboriginal stakeholders to provide culturally appropriate information via mail, email or phone with regards to this project.

Cultural information provided will be recorded in the Aboriginal consultation log and discussed in the report. If the information is regarded as too sensitive to be made public then the Aboriginal stakeholder should advise Biosis and identify the nature of the sensitivity. Biosis will then arrange for the recording of the information in accordance with its sensitivity. Documents which hold sensitive information will clearly list, on the front cover, who can have access to the document. These documents will be stored securely.

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Department of Environment, Climate Change and Water. 2010b. Aboriginal cultural heritage consultation requirements for proponents 2010. NSW Department of Environment, Climate Change and Water, Sydney NSW.

RE: Moss Vale Aboriginal Cultural Heritage Assessment - Project methodology

Our Ref: Matter 28011

This letter is being provided to all the Registered Aboriginal Parties (RAPs) who registered their interest in the consultation process for the Moss Vale development being undertaken by Aoyuan International (Figure 1, Figure 2).

In accordance with the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010) (consultation requirements), we provide the proposed methodology for the Aboriginal Cultural Heritage Assessment (ACHA) for your review and feedback.

It would be appreciated if you would provide feedback on the methodology presented in this letter to Biosis Pty Ltd by **5 pm 16 November 2018** either by email, phone or return mail.

Please address feedback on the methodology to:

Mathew Smith
Biosis Pty Ltd
8 Tate Street
Wollongong NSW 2500
msmith@biosis.com.au

Please do not hesitate to contact me if you require additional information or have any queries about the methodology or information provided.

Kind regards,

A handwritten signature in blue ink that reads "M Smith".

Mathew Smith

Archaeologist
msmith@biosis.com.au

Stage 3: Moss Vale Aboriginal Cultural Heritage Assessment: Methodology for test excavations

The following information has been provided in accordance with the consultation requirements. The aim of this document is to provide registered Aboriginal parties (RAPs) with the proposed methodology for the cultural heritage and archaeological assessment.

Biosis Pty Ltd recently completed an archaeological survey of the study area for Aboriginal archaeological heritage for the proposed works. Biosis identified two existing sites with areas of moderate potential and two areas of moderate potential on a crest landform within the study area (Figure 3). The two existing sites consisted of Chelsea Gardens Locale 1, an artefact scatter that was eroding out of a silage pit, and Chelsea Gardens Locale 2, an artefact scatter located eroding out of a small knoll. Both sites contained moderate archaeological potential. The proposed development will impact on these areas of potential, and as such further assessment would be required in the form of subsurface test excavations and an application for an Aboriginal Heritage Impact Permit (AHIP). The proposed methodology is detailed below for these test excavations.

Test excavation methodology

Aims of the sub-surface test excavations

The principle objectives of the subsurface test excavations are to identify and understand the nature, extent and significance of any archaeological sites located within areas of archaeological potential.

The aims of the testing program are to:

- Determine whether sub-surface archaeological deposits exist which may be impacted by the development.
- If so, to determine the extent and nature of such deposits.
- Identify if the archaeological material occurs in an intact, undisturbed context, by examining the soil profile and stratigraphy.
- Analyse and interpret any archaeological finds (such as stone artefacts, shell midden deposits, etc.) recovered during the testing program.
- Inform current knowledge of Aboriginal occupation and land use models of the region.
- Provide management and mitigation measures for Aboriginal archaeological objects located during the subsurface testing program.

Test excavation sampling strategy

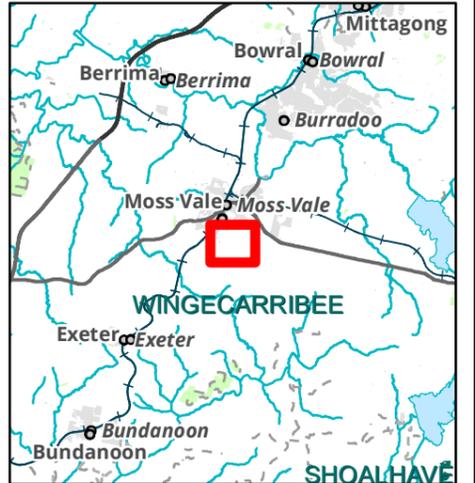
Test excavations across the study area will conform to the following methodology:

- Test excavations will be undertaken in areas identified as having the potential to contain Aboriginal cultural material.

- Test excavation units will consist of one 50 cm x 50 cm test pit, in order to determine the nature of sub-surface deposit and presence of any possible archaeological deposits.
- Test excavations units must be excavated using hand tools only including spades, handle shovels, and trowels.
- The first test excavation unit will be excavated and documented in 5 cm spits and all following units. All material excavated from the test excavation units must be sieved using nested 5 mm aperture wire-mesh sieves.
- Test excavation units must be excavated to at least the base of the identified Aboriginal object-bearing units, and must continue to confirm the soils below are culturally sterile.
- All cultural material will be collected, bagged and clearly labelled. They will be temporarily stored in the Biosis office for analysis (at Unit 14, 17-27 Power Avenue, Alexandria).
- The following documentation will be taken for the test pit:
 - Unique test pit identification number.
 - GPS coordinate.
 - Munsell soil colour, texture and pH.
 - Amount and location of cultural material within the deposit.
 - Nature of disturbance where present.
 - Stratigraphy.
 - Archaeological features (if present).
 - Photographic records.
 - Spit records.
- The test excavation unit must be backfilled as soon as practicable due to safety issues.

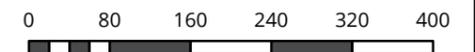
Following test excavation, an Aboriginal Site Recording form must be completed and submitted to the AHIMS Registrar, as soon as practicable, for each AHIMS site that has been identified.

Standard protocol for the discovery of any human remains is to be followed in the event that human remains are discovered.



Legend
 Study area

Figure 1: Study area detail

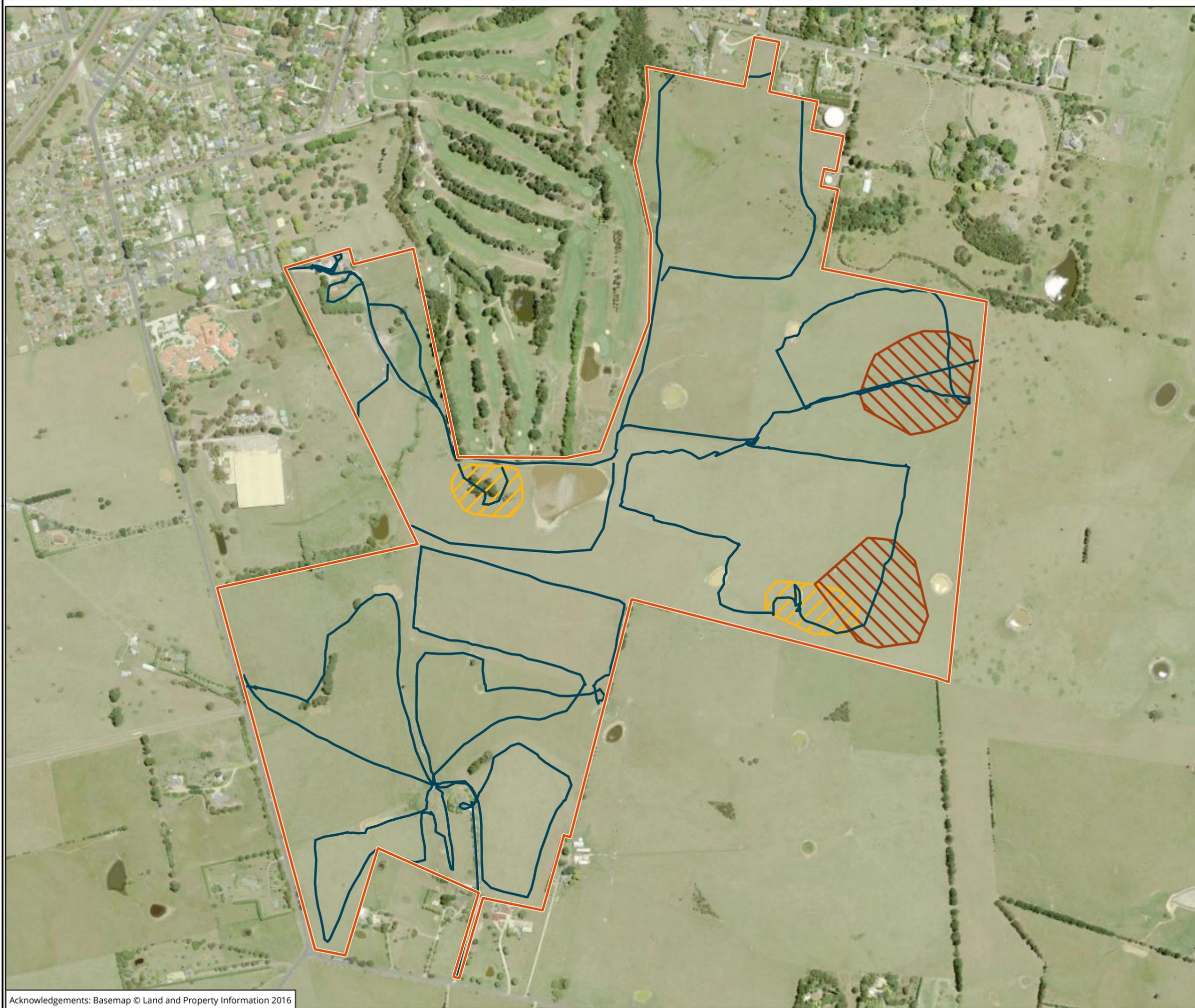


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 Coordinate System: GDA 1994 NSW Lambert



Albury, Ballarat, Melbourne,
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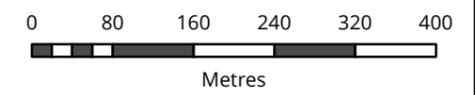
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Legend

-  Study area
-  Survey tracks
- Survey results**
-  Artefact sites with PAD
-  Moderate potential

Figure 2: Survey results



Scale: 1:7,000 @ A3
Coordinate System: GDA 1994 NSW Lambert



Albury, Ballarat, Melbourne,
Newcastle, Sydney, Wangaratta & Wollongong

19 October 2018

Individual

Leanne Tungai

Dear Leanne,

RE: Moss Vale Aboriginal Cultural Heritage Assessment – project information

Our Ref: Matter 28011

Thank you for your registration of interest in this project. We are writing to you in order to provide you with the project information and methodology packs for the proposed development at Lot 3 DP 706194 and Lot 12 DP 866036, Moss Vale, NSW. This information has been provided in accordance with the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010a) (consultation requirements).

In this letter you will find the project information pack and project methodology.

The purpose of the methodology document is to provide you with further information on the background of this assessment, as well as the methodology for how it will be conducted, including the test excavations.

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Mathew Smith



Archaeologist
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Aboriginal cultural heritage assessment process

The assessment process includes the following steps:

Background research

Background research has been undertaken in order to identify known Aboriginal sites, areas of potential archaeological sensitivity and previous disturbance, and inform the predictive modelling for the assessment area. Background research will be conducted in line with the requirements of the *Code of Practice for the Investigation of Aboriginal Objects in New South Wales* (DECCW 2010) ('the code'). Background research for the project included the following tasks:

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Test excavation

The survey has identified the need for further assessment in the form of test excavations. This will be undertaken in accordance with the code. Further information on the methodology for this test excavation and the areas of potential archaeological deposit within the study area is available in the project methodology.

Reporting

A draft report will be prepared in accordance with the code and will include:

- Background and project description.
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Registered Aboriginal parties will be provided with the draft report for comment and allowed 28 days for review.

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Project schedule

The proposed schedule and broad time allocations for the consultation stages are summarised below.

Action	Timeframe	Notes
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Test excavations	TBC	
Information gathering		Until finalisation of the report

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RE: Moss Vale Aboriginal Cultural Heritage Assessment - Project methodology

Our Ref: Matter 28011

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It would be appreciated if you would provide feedback on the methodology presented in this letter to Biosis Pty Ltd by **5 pm 16 November 2018** either by email, phone or return mail.

Please address feedback on the methodology to:

Mathew Smith
Biosis Pty Ltd
8 Tate Street
Wollongong NSW 2500
msmith@biosis.com.au

Please do not hesitate to contact me if you require additional information or have any queries about the methodology or information provided.

Kind regards,

A handwritten signature in blue ink that reads 'M Smith'.

Mathew Smith

Archaeologist
msmith@biosis.com.au

Stage 3: Moss Vale Aboriginal Cultural Heritage Assessment: Methodology for test excavations

The following information has been provided in accordance with the consultation requirements. The aim of this document is to provide registered Aboriginal parties (RAPs) with the proposed methodology for the cultural heritage and archaeological assessment.

Biosis Pty Ltd recently completed an archaeological survey of the study area for Aboriginal archaeological heritage for the proposed works. Biosis identified two existing sites with areas of moderate potential and two areas of moderate potential on a crest landform within the study area (Figure 3). The two existing sites consisted of Chelsea Gardens Locale 1, an artefact scatter that was eroding out of a silage pit, and Chelsea Gardens Locale 2, an artefact scatter located eroding out of a small knoll. Both sites contained moderate archaeological potential. The proposed development will impact on these areas of potential, and as such further assessment would be required in the form of subsurface test excavations and an application for an Aboriginal Heritage Impact Permit (AHIP). The proposed methodology is detailed below for these test excavations.

Test excavation methodology

Aims of the sub-surface test excavations

The principle objectives of the subsurface test excavations are to identify and understand the nature, extent and significance of any archaeological sites located within areas of archaeological potential.

The aims of the testing program are to:

- Determine whether sub-surface archaeological deposits exist which may be impacted by the development.
- If so, to determine the extent and nature of such deposits.
- Identify if the archaeological material occurs in an intact, undisturbed context, by examining the soil profile and stratigraphy.
- Analyse and interpret any archaeological finds (such as stone artefacts, shell midden deposits, etc.) recovered during the testing program.
- Inform current knowledge of Aboriginal occupation and land use models of the region.
- Provide management and mitigation measures for Aboriginal archaeological objects located during the subsurface testing program.

Test excavation sampling strategy

Test excavations across the study area will conform to the following methodology:

- Test excavations will be undertaken in areas identified as having the potential to contain Aboriginal cultural material.

- Test excavation units will consist of one 50 cm x 50 cm test pit, in order to determine the nature of sub-surface deposit and presence of any possible archaeological deposits.
- Test excavations units must be excavated using hand tools only including spades, handle shovels, and trowels.
- The first test excavation unit will be excavated and documented in 5 cm spits and all following units. All material excavated from the test excavation units must be sieved using nested 5 mm aperture wire-mesh sieves.
- Test excavation units must be excavated to at least the base of the identified Aboriginal object-bearing units, and must continue to confirm the soils below are culturally sterile.
- All cultural material will be collected, bagged and clearly labelled. They will be temporarily stored in the Biosis office for analysis (at Unit 14, 17-27 Power Avenue, Alexandria).
- The following documentation will be taken for the test pit:
 - Unique test pit identification number.
 - GPS coordinate.
 - Munsell soil colour, texture and pH.
 - Amount and location of cultural material within the deposit.
 - Nature of disturbance where present.
 - Stratigraphy.
 - Archaeological features (if present).
 - Photographic records.
 - Spit records.
- The test excavation unit must be backfilled as soon as practicable due to safety issues.

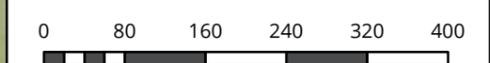
Following test excavation, an Aboriginal Site Recording form must be completed and submitted to the AHIMS Registrar, as soon as practicable, for each AHIMS site that has been identified.

Standard protocol for the discovery of any human remains is to be followed in the event that human remains are discovered.



Legend
 Study area

Figure 1: Study area detail



Metres
 Scale: 1:7,000 @ A3
 Coordinate System: GDA 1994 NSW Lambert



biosis
 Biosis Pty Ltd
 Albury, Ballarat, Melbourne,
 Newcastle, Sydney, Wangaratta & Wollongong

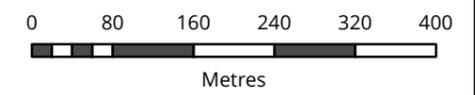
Matter: 28011
 Date: 09 October 2018,
 Checked by: MJS, Drawn by: JSP, Last edited by: lwilson
 Location: P:\28000s\28011\mapping\28011_F2_StudyArea



Legend

-  Study area
-  Survey tracks
- Survey results**
-  Artefact sites with PAD
-  Moderate potential

Figure 2: Survey results



Scale: 1:7,000 @ A3
Coordinate System: GDA 1994 NSW Lambert



Albury, Ballarat, Melbourne,
Newcastle, Sydney, Wangaratta & Wollongong

Matter: 28011
Date: 09 October 2018,
Checked by: MJS, Drawn by: JSP, Last edited by: lwilson
Location: P:\28000s\28011\Mapping\
28011_F6_SurveyResults

19 October 2018

Woronora Plateau Gundungara Elders Council

Kayla Williamson

11 Garnet Grove

Flinders NSW 2529

Dear Kayla,

RE: Moss Vale Aboriginal Cultural Heritage Assessment - project information

Our Ref: Matter 28011

Thank you for your registration of interest in this project. We are writing to you in order to provide you with the project information and methodology packs for the proposed development at Lot 3 DP 706194 and Lot 12 DP 866036, Moss Vale, NSW. This information has been provided in accordance with the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010a) (consultation requirements).

In this letter you will find the project information pack and project methodology.

The purpose of the methodology document is to provide you with further information on the background of this assessment, as well as the methodology for how it will be conducted, including the test excavations.

Please note that comments on the project methodology pack should be received before **5 pm 16 November 2018**.

As this project will involve test excavations, the purpose of the second letter is to invite your feedback on the proposed project information and methodology packs, and to assist the proponent in the programming of groups for participation in the test excavations which will be carried out within the study area.

If you have any queries regarding the project or the information in this letter, please don't hesitate to contact us.

Yours sincerely,

Mathew Smith



Archaeologist
msmith@biosis.com.au

Project information

The following information has been provided in accordance with the consultation requirements. The aim of this document is to provide registered Aboriginal parties with information about the proposed project and the scope of the Aboriginal archaeology and cultural heritage investigations and assessment.

Study area

The study area is located at Lot 3 DP 706194 and Lot 12 DP 866036, Moss Vale, NSW, within the Wingecarribee Shire Council Local Government Area (LGA), Parish of Bong Bong, and County of Camden.

Project

Aoyuan International are proposing to develop the study area into a number of residential blocks so Biosis Pty Ltd is assisting Aoyuan International with consultation with the Aboriginal community and the Aboriginal Cultural Heritage Assessment. Consultation with the Aboriginal community will follow the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010). The purpose of the Aboriginal community consultation will be to provide sufficient information for the assessment of Aboriginal cultural heritage values and to inform the Aboriginal Cultural Heritage Assessment (ACHA). This will assist with the possible application for an AHIP, and will assist the Office of Environment and Heritage (OEH) in consideration and determination of the AHIP application.

Aboriginal cultural heritage assessment process

The assessment process includes the following steps:

Background research

Background research has been undertaken in order to identify known Aboriginal sites, areas of potential archaeological sensitivity and previous disturbance, and inform the predictive modelling for the assessment area. Background research will be conducted in line with the requirements of the *Code of Practice for the Investigation of Aboriginal Objects in New South Wales* (DECCW 2010) ('the code'). Background research for the project included the following tasks:

- Conduct heritage register searches to identify previously recorded cultural heritage sites in or within the vicinity of the proposed study area. Searches will include the Aboriginal Heritage Information Management System (AHIMS), the National Heritage List, Commonwealth Heritage List, Register of the National Estate, State Heritage Register, Local Environmental Plan and National Trust heritage lists.
- Conduct additional background research in order to recognise any identifiable regional trends in site distribution and location and provide a site prediction model for the study area.
- Undertake a comprehensive survey of the study area, identifying any previously recorded sites (on AHIMS).
- Record and assess sites identified during the survey in compliance with the guidelines issued by the OEH.
- Assess the scientific significance of all identified Aboriginal cultural heritage sites and places;

- Identify impacts to all identified Aboriginal cultural heritage sites and places based on potential ground disturbance from the proposed realignment of the road.
- Make recommendations to minimise or mitigate potential impacts of the proposed realignment upon cultural heritage values within the study area.

Consultation with the Aboriginal community

This task will allow the Aboriginal community the opportunity to participate in decisions regarding the management of their cultural heritage by providing proponents information regarding cultural significance and input into management options.

Consultation with Aboriginal stakeholders under the DECCW 2010 consultation guidelines is being undertaken to assist School Infrastructure NSW by:

- providing relevant information about the cultural significance and values of the Aboriginal object(s) and/or place(s) within the study area.
- influencing the design of the method to assess cultural and scientific significance of Aboriginal objects(s) and/or place(s) within the study area.
- actively contributing to the development of cultural heritage management plan options and recommendations for any Aboriginal object(s) and/or place(s) within the proposed study area.
- commenting on the draft assessment reports before they are submitted by the proponent to the determining authority of the proposed realignment.

Aboriginal community consultation will be undertaken in accordance with the consultation requirements which includes:

- **Completed:** Ascertaining the names of Aboriginal people or groups who may hold cultural knowledge relevant to determining the significance of Aboriginal objects and/ or places within the proposed study area. This would include writing to the following:
 - Office of Environment and Heritage (OEH)
 - Local Aboriginal Land Council (LALC)
 - Office of the Registrar (Aboriginal Land Rights Act 1983)
 - National Native Title Tribunal (NNTT)
 - Native Title Services Corporation Limited (NTSCORP Limited)
 - Relevant Local Councils
 - Relevant Catchment Management Authorities
- **Completed:** Bosis will undertake the 'Placement of Notification' (Public Notice) in the *newspaper*, on behalf of Client, that must include details of the proponent, the project, the exact location, and statement of the purpose of the community consultation in preparation for possible test excavations and AHIPs. The Public Notice is also an invitation for Aboriginal people who hold relevant cultural knowledge about the study area. A closing date for the registration must be included and be no less than **14 days. Registration closed on 26 September 2018.**

- **Completed:** Aboriginal people or groups identified would be provided with notification of the proposed project via Biosis and given the opportunity to be involved in consultation. **Registrations of interest closed on 26 September 2018.**
- A list of Aboriginal people or groups who register an interest in the project will be forwarded to the OEH and the LALC by Biosis no later than **28 days** following close of registration. This list will not include those people or groups who specified that they did not want their details shared with OEH or the LALC.
- Biosis will provide details of the project and methodology for the archaeological assessment to the registered parties. The registered Aboriginal parties must be given an opportunity to review and provide feedback to the proponent within a minimum of **28 days** of the Biosis providing the methodology document.
- Selected representatives of the registered Aboriginal parties will be given the opportunity to participate in test excavations within the study area.
- The DRAFT ACHAR and Archaeological Report will be provided to all registered Aboriginal parties for comment – the proponent must allow **28 days** for comment. All comments and correspondence sent and received regarding the project will be included in the final report in an Appendix.

Field survey

An Aboriginal archaeological survey of the assessment area was undertaken in September 2018 by Biosis archaeologist Mathew Smith and Duncan Falk of Duncan Falk Consulting. This was undertaken in accordance with the guidelines outlined in the code in order to identify any previously unknown Aboriginal objects, sites or places, should they be present and to inspect previously recorded sites within the study area.

Two existing sites are located within the study area. Chelsea gardens Locale site 1 (AHIMS 52-4-0193) was located in the north eastern corner of the study area and contained artefacts eroding out of a silage pit. The second site was Chelsea gardens Locale site 2 (AHIMS 52-4-0194) and was located on a small knoll in the northern section of the study area. This site consisted of 10 artefacts eroding out soil profile. Both sites contained moderate potential for archaeological deposits.

The survey also identified two areas of moderate Aboriginal archaeological potential within the study area that were not associated with existing sites. These two areas were both located on hill crests. The rest of the study area contained low archaeological potential. These areas consisted of flat and hillslopes landforms, which due to the distance from water, the intensive use of these areas for cropping and livestock grazing and the steep slopes, contained low potential

Test excavation

The survey has identified the need for further assessment in the form of test excavations. This will be undertaken in accordance with the code. Further information on the methodology for this test excavation and the areas of potential archaeological deposit within the study area is available in the project methodology.

Reporting

A draft report will be prepared in accordance with the code and will include:

- Background and project description.
- A summary and analysis of the findings including the presence and location of registered or new identified Aboriginal artefacts or heritage items within the study area.
- A summary of any other relevant studies or surveys which have relevance to the assessment area.
- A summary of the landscape features of the site which may indicate a history of Aboriginal activity.
- A summary of previous land use that may have affected the retention of intact Aboriginal archaeology in the landscape.
- The potential or likelihood for the proposed works to uncover or expose potential undiscovered Aboriginal objects.
- Survey and test excavation results.
- Legislative implications of the proposed works.
- Recommendations and justification for further assessment (if required).
- Mitigation measures (if any) required for the works to proceed.
- Mapping will be carried out to show the location of registered and newly located (if any) Aboriginal sites in relation to the proposed works.

Registered Aboriginal parties will be provided with the draft report for comment and allowed 28 days for review.

The final report will incorporate all comments.

Project schedule

The proposed schedule and broad time allocations for the consultation stages are summarised below.

Action	Timeframe	Notes
Commencement of Aboriginal community consultation – advertising of project, Notification to stakeholders etc.	Completed	Project advertised in <i>Southern Highlands News</i> on 5 September 2018; notices sent to stakeholders 12 September 2018.
Field survey	Completed	Survey undertaken by Biosis archaeologist Mathew Smith and Duncan Falk of Duncan Falk Consultancy in September 2018.
Provision of client-reviewed DRAFT Methodology Document to registered Aboriginal stakeholders for review and comment – these methods will form the basis for all archaeological and cultural heritage work	TBC	28 days review time allowed under OEH Aboriginal community consultation guidelines.
Test excavations	TBC	
Information gathering		Until finalisation of the report

Action	Timeframe	Notes
Review of the draft report	TBC	28 days review time allowed under OEH Aboriginal community consultation guidelines
Completion and finalisation of report	TBC	

Responsibilities and roles

As part of the consultation process registered Aboriginal parties are invited to respond to requests for cultural information and comment on draft reporting, as appropriate in accordance with their role specified in the guidelines (DECCW 2010a, p. 16). Biosis and the proponent, in accordance with their role under the guidelines, will consult with the Aboriginal community by supplying suitable project information and providing the opportunity for Aboriginal stakeholders to provide input into the heritage management process (DECCW 2010a, pp. 16-17).

Each section of the methodology will be undertaken in consultation with the Aboriginal stakeholders. Biosis invites Aboriginal stakeholders to provide culturally appropriate information via mail, email or phone with regards to this project.

Cultural information provided will be recorded in the Aboriginal consultation log and discussed in the report. If the information is regarded as too sensitive to be made public then the Aboriginal stakeholder should advise Biosis and identify the nature of the sensitivity. Biosis will then arrange for the recording of the information in accordance with its sensitivity. Documents which hold sensitive information will clearly list, on the front cover, who can have access to the document. These documents will be stored securely.

References

Department of Environment, Climate Change and Water. 2010a. Code of practice for Archaeological Investigation of Aboriginal Objects in New South Wales 2010. NSW Department of Environment, Climate Change and Water, Sydney NSW.

Department of Environment, Climate Change and Water. 2010b. Aboriginal cultural heritage consultation requirements for proponents 2010. NSW Department of Environment, Climate Change and Water, Sydney NSW.

RE: Moss Vale Aboriginal Cultural Heritage Assessment - Project methodology

Our Ref: Matter 28011

This letter is being provided to all the Registered Aboriginal Parties (RAPs) who registered their interest in the consultation process for the Moss Vale development being undertaken by Aoyuan International (Figure 1, Figure 2).

In accordance with the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010) (consultation requirements), we provide the proposed methodology for the Aboriginal Cultural Heritage Assessment (ACHA) for your review and feedback.

It would be appreciated if you would provide feedback on the methodology presented in this letter to Biosis Pty Ltd by **5 pm 16 November 2018** either by email, phone or return mail.

Please address feedback on the methodology to:

Mathew Smith
Biosis Pty Ltd
8 Tate Street
Wollongong NSW 2500
msmith@biosis.com.au

Please do not hesitate to contact me if you require additional information or have any queries about the methodology or information provided.

Kind regards,

A handwritten signature in blue ink that reads "M Smith".

Mathew Smith

Archaeologist
msmith@biosis.com.au

Stage 3: Moss Vale Aboriginal Cultural Heritage Assessment: Methodology for test excavations

The following information has been provided in accordance with the consultation requirements. The aim of this document is to provide registered Aboriginal parties (RAPs) with the proposed methodology for the cultural heritage and archaeological assessment.

Biosis Pty Ltd recently completed an archaeological survey of the study area for Aboriginal archaeological heritage for the proposed works. Biosis identified two existing sites with areas of moderate potential and two areas of moderate potential on a crest landform within the study area (Figure 3). The two existing sites consisted of Chelsea Gardens Locale 1, an artefact scatter that was eroding out of a silage pit, and Chelsea Gardens Locale 2, an artefact scatter located eroding out of a small knoll. Both sites contained moderate archaeological potential. The proposed development will impact on these areas of potential, and as such further assessment would be required in the form of subsurface test excavations and an application for an Aboriginal Heritage Impact Permit (AHIP). The proposed methodology is detailed below for these test excavations.

Test excavation methodology

Aims of the sub-surface test excavations

The principle objectives of the subsurface test excavations are to identify and understand the nature, extent and significance of any archaeological sites located within areas of archaeological potential.

The aims of the testing program are to:

- Determine whether sub-surface archaeological deposits exist which may be impacted by the development.
- If so, to determine the extent and nature of such deposits.
- Identify if the archaeological material occurs in an intact, undisturbed context, by examining the soil profile and stratigraphy.
- Analyse and interpret any archaeological finds (such as stone artefacts, shell midden deposits, etc.) recovered during the testing program.
- Inform current knowledge of Aboriginal occupation and land use models of the region.
- Provide management and mitigation measures for Aboriginal archaeological objects located during the subsurface testing program.

Test excavation sampling strategy

Test excavations across the study area will conform to the following methodology:

- Test excavations will be undertaken in areas identified as having the potential to contain Aboriginal cultural material.

- Test excavation units will consist of one 50 cm x 50 cm test pit, in order to determine the nature of sub-surface deposit and presence of any possible archaeological deposits.
- Test excavations units must be excavated using hand tools only including spades, handle shovels, and trowels.
- The first test excavation unit will be excavated and documented in 5 cm spits and all following units. All material excavated from the test excavation units must be sieved using nested 5 mm aperture wire-mesh sieves.
- Test excavation units must be excavated to at least the base of the identified Aboriginal object-bearing units, and must continue to confirm the soils below are culturally sterile.
- All cultural material will be collected, bagged and clearly labelled. They will be temporarily stored in the Biosis office for analysis (at Unit 14, 17-27 Power Avenue, Alexandria).
- The following documentation will be taken for the test pit:
 - Unique test pit identification number.
 - GPS coordinate.
 - Munsell soil colour, texture and pH.
 - Amount and location of cultural material within the deposit.
 - Nature of disturbance where present.
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 - Photographic records.
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- The test excavation unit must be backfilled as soon as practicable due to safety issues.

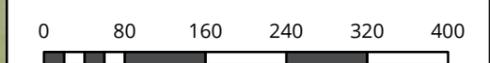
Following test excavation, an Aboriginal Site Recording form must be completed and submitted to the AHIMS Registrar, as soon as practicable, for each AHIMS site that has been identified.

Standard protocol for the discovery of any human remains is to be followed in the event that human remains are discovered.



Legend
 Study area

Figure 1: Study area detail



Metres
 Scale: 1:7,000 @ A3
 Coordinate System: GDA 1994 NSW Lambert

biosis
 Biosis Pty Ltd
 Albury, Ballarat, Melbourne,
 Newcastle, Sydney, Wangaratta & Wollongong

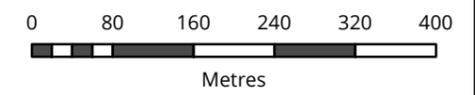
Matter: 28011
 Date: 09 October 2018,
 Checked by: MJS, Drawn by: JSP, Last edited by: lwilson
 Location: P:\28000s\28011\mapping\28011_F2_StudyArea



Legend

-  Study area
-  Survey tracks
- Survey results**
-  Artefact sites with PAD
-  Moderate potential

Figure 2: Survey results



Scale: 1:7,000 @ A3
 Coordinate System: GDA 1994 NSW Lambert



Albury, Ballarat, Melbourne,
 Newcastle, Sydney, Wangaratta & Wollongong

19 October 2018

Duncan Falk Consultancy

Duncan Falk

34 Robina Drive

Bowral NSW 2576

Dear Duncan,

RE: Moss Vale Aboriginal Cultural Heritage Assessment - project information

Our Ref: Matter 28011

Thank you for your registration of interest in this project. We are writing to you in order to provide you with the project information and methodology packs for the proposed development at Lot 3 DP 706194 and Lot 12 DP 866036, Moss Vale, NSW. This information has been provided in accordance with the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010a) (consultation requirements).

In this letter you will find the project information pack and project methodology.

The purpose of the methodology document is to provide you with further information on the background of this assessment, as well as the methodology for how it will be conducted, including the test excavations.

Please note that comments on the project methodology pack should be received before **5 pm 16 November 2018**.

As this project will involve test excavations, the purpose of the second letter is to invite your feedback on the proposed project information and methodology packs, and to assist the proponent in the programming of groups for participation in the test excavations which will be carried out within the study area.

If you have any queries regarding the project or the information in this letter, please don't hesitate to contact us.

Yours sincerely,

Mathew Smith



Archaeologist
msmith@biosis.com.au

Project information

The following information has been provided in accordance with the consultation requirements. The aim of this document is to provide registered Aboriginal parties with information about the proposed project and the scope of the Aboriginal archaeology and cultural heritage investigations and assessment.

Study area

The study area is located at Lot 3 DP 706194 and Lot 12 DP 866036, Moss Vale, NSW, within the Wingecarribee Shire Council Local Government Area (LGA), Parish of Bong Bong, and County of Camden.

Project

Aoyuan International are proposing to develop the study area into a number of residential blocks so Biosis Pty Ltd is assisting Aoyuan International with consultation with the Aboriginal community and the Aboriginal Cultural Heritage Assessment. Consultation with the Aboriginal community will follow the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010). The purpose of the Aboriginal community consultation will be to provide sufficient information for the assessment of Aboriginal cultural heritage values and to inform the Aboriginal Cultural Heritage Assessment (ACHA). This will assist with the possible application for an AHIP, and will assist the Office of Environment and Heritage (OEH) in consideration and determination of the AHIP application.

Aboriginal cultural heritage assessment process

The assessment process includes the following steps:

Background research

Background research has been undertaken in order to identify known Aboriginal sites, areas of potential archaeological sensitivity and previous disturbance, and inform the predictive modelling for the assessment area. Background research will be conducted in line with the requirements of the *Code of Practice for the Investigation of Aboriginal Objects in New South Wales* (DECCW 2010) ('the code'). Background research for the project included the following tasks:

- Conduct heritage register searches to identify previously recorded cultural heritage sites in or within the vicinity of the proposed study area. Searches will include the Aboriginal Heritage Information Management System (AHIMS), the National Heritage List, Commonwealth Heritage List, Register of the National Estate, State Heritage Register, Local Environmental Plan and National Trust heritage lists.
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- Record and assess sites identified during the survey in compliance with the guidelines issued by the OEH.
- Assess the scientific significance of all identified Aboriginal cultural heritage sites and places;

- Identify impacts to all identified Aboriginal cultural heritage sites and places based on potential ground disturbance from the proposed realignment of the road.
- Make recommendations to minimise or mitigate potential impacts of the proposed realignment upon cultural heritage values within the study area.

Consultation with the Aboriginal community

This task will allow the Aboriginal community the opportunity to participate in decisions regarding the management of their cultural heritage by providing proponents information regarding cultural significance and input into management options.

Consultation with Aboriginal stakeholders under the DECCW 2010 consultation guidelines is being undertaken to assist School Infrastructure NSW by:

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- influencing the design of the method to assess cultural and scientific significance of Aboriginal objects(s) and/or place(s) within the study area.
- actively contributing to the development of cultural heritage management plan options and recommendations for any Aboriginal object(s) and/or place(s) within the proposed study area.
- commenting on the draft assessment reports before they are submitted by the proponent to the determining authority of the proposed realignment.

Aboriginal community consultation will be undertaken in accordance with the consultation requirements which includes:

- **Completed:** Ascertaining the names of Aboriginal people or groups who may hold cultural knowledge relevant to determining the significance of Aboriginal objects and/ or places within the proposed study area. This would include writing to the following:
 - Office of Environment and Heritage (OEH)
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- The DRAFT ACHAR and Archaeological Report will be provided to all registered Aboriginal parties for comment – the proponent must allow **28 days** for comment. All comments and correspondence sent and received regarding the project will be included in the final report in an Appendix.

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Two existing sites are located within the study area. Chelsea gardens Locale site 1 (AHIMS 52-4-0193) was located in the north eastern corner of the study area and contained artefacts eroding out of a silage pit. The second site was Chelsea gardens Locale site 2 (AHIMS 52-4-0194) and was located on a small knoll in the northern section of the study area. This site consisted of 10 artefacts eroding out soil profile. Both sites contained moderate potential for archaeological deposits.

The survey also identified two areas of moderate Aboriginal archaeological potential within the study area that were not associated with existing sites. These two areas were both located on hill crests. The rest of the study area contained low archaeological potential. These areas consisted of flat and hillslopes landforms, which due to the distance from water, the intensive use of these areas for cropping and livestock grazing and the steep slopes, contained low potential

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The survey has identified the need for further assessment in the form of test excavations. This will be undertaken in accordance with the code. Further information on the methodology for this test excavation and the areas of potential archaeological deposit within the study area is available in the project methodology.

Reporting

A draft report will be prepared in accordance with the code and will include:

- Background and project description.
- A summary and analysis of the findings including the presence and location of registered or new identified Aboriginal artefacts or heritage items within the study area.
- A summary of any other relevant studies or surveys which have relevance to the assessment area.
- A summary of the landscape features of the site which may indicate a history of Aboriginal activity.
- A summary of previous land use that may have affected the retention of intact Aboriginal archaeology in the landscape.
- The potential or likelihood for the proposed works to uncover or expose potential undiscovered Aboriginal objects.
- Survey and test excavation results.
- Legislative implications of the proposed works.
- Recommendations and justification for further assessment (if required).
- Mitigation measures (if any) required for the works to proceed.
- Mapping will be carried out to show the location of registered and newly located (if any) Aboriginal sites in relation to the proposed works.

Registered Aboriginal parties will be provided with the draft report for comment and allowed 28 days for review.

The final report will incorporate all comments.

Project schedule

The proposed schedule and broad time allocations for the consultation stages are summarised below.

Action	Timeframe	Notes
Commencement of Aboriginal community consultation – advertising of project, Notification to stakeholders etc.	Completed	Project advertised in <i>Southern Highlands News</i> on 5 September 2018; notices sent to stakeholders 12 September 2018.
Field survey	Completed	Survey undertaken by Biosis archaeologist Mathew Smith and Duncan Falk of Duncan Falk Consultancy in September 2018.
Provision of client-reviewed DRAFT Methodology Document to registered Aboriginal stakeholders for review and comment – these methods will form the basis for all archaeological and cultural heritage work	TBC	28 days review time allowed under OEH Aboriginal community consultation guidelines.
Test excavations	TBC	
Information gathering		Until finalisation of the report

Action	Timeframe	Notes
Review of the draft report	TBC	28 days review time allowed under OEH Aboriginal community consultation guidelines
Completion and finalisation of report	TBC	

Responsibilities and roles

As part of the consultation process registered Aboriginal parties are invited to respond to requests for cultural information and comment on draft reporting, as appropriate in accordance with their role specified in the guidelines (DECCW 2010a, p. 16). Biosis and the proponent, in accordance with their role under the guidelines, will consult with the Aboriginal community by supplying suitable project information and providing the opportunity for Aboriginal stakeholders to provide input into the heritage management process (DECCW 2010a, pp. 16-17).

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Cultural information provided will be recorded in the Aboriginal consultation log and discussed in the report. If the information is regarded as too sensitive to be made public then the Aboriginal stakeholder should advise Biosis and identify the nature of the sensitivity. Biosis will then arrange for the recording of the information in accordance with its sensitivity. Documents which hold sensitive information will clearly list, on the front cover, who can have access to the document. These documents will be stored securely.

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RE: Moss Vale Aboriginal Cultural Heritage Assessment - Project methodology

Our Ref: Matter 28011

This letter is being provided to all the Registered Aboriginal Parties (RAPs) who registered their interest in the consultation process for the Moss Vale development being undertaken by Aoyuan International (Figure 1, Figure 2).

In accordance with the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010) (consultation requirements), we provide the proposed methodology for the Aboriginal Cultural Heritage Assessment (ACHA) for your review and feedback.

It would be appreciated if you would provide feedback on the methodology presented in this letter to Biosis Pty Ltd by **5 pm 16 November 2018** either by email, phone or return mail.

Please address feedback on the methodology to:

Mathew Smith
Biosis Pty Ltd
8 Tate Street
Wollongong NSW 2500
msmith@biosis.com.au

Please do not hesitate to contact me if you require additional information or have any queries about the methodology or information provided.

Kind regards,

A handwritten signature in blue ink that reads "M Smith".

Mathew Smith

Archaeologist
msmith@biosis.com.au

Stage 3: Moss Vale Aboriginal Cultural Heritage Assessment: Methodology for test excavations

The following information has been provided in accordance with the consultation requirements. The aim of this document is to provide registered Aboriginal parties (RAPs) with the proposed methodology for the cultural heritage and archaeological assessment.

Biosis Pty Ltd recently completed an archaeological survey of the study area for Aboriginal archaeological heritage for the proposed works. Biosis identified two existing sites with areas of moderate potential and two areas of moderate potential on a crest landform within the study area (Figure 3). The two existing sites consisted of Chelsea Gardens Locale 1, an artefact scatter that was eroding out of a silage pit, and Chelsea Gardens Locale 2, an artefact scatter located eroding out of a small knoll. Both sites contained moderate archaeological potential. The proposed development will impact on these areas of potential, and as such further assessment would be required in the form of subsurface test excavations and an application for an Aboriginal Heritage Impact Permit (AHIP). The proposed methodology is detailed below for these test excavations.

Test excavation methodology

Aims of the sub-surface test excavations

The principle objectives of the subsurface test excavations are to identify and understand the nature, extent and significance of any archaeological sites located within areas of archaeological potential.

The aims of the testing program are to:

- Determine whether sub-surface archaeological deposits exist which may be impacted by the development.
- If so, to determine the extent and nature of such deposits.
- Identify if the archaeological material occurs in an intact, undisturbed context, by examining the soil profile and stratigraphy.
- Analyse and interpret any archaeological finds (such as stone artefacts, shell midden deposits, etc.) recovered during the testing program.
- Inform current knowledge of Aboriginal occupation and land use models of the region.
- Provide management and mitigation measures for Aboriginal archaeological objects located during the subsurface testing program.

Test excavation sampling strategy

Test excavations across the study area will conform to the following methodology:

- Test excavations will be undertaken in areas identified as having the potential to contain Aboriginal cultural material.

- Test excavation units will consist of one 50 cm x 50 cm test pit, in order to determine the nature of sub-surface deposit and presence of any possible archaeological deposits.
- Test excavations units must be excavated using hand tools only including spades, handle shovels, and trowels.
- The first test excavation unit will be excavated and documented in 5 cm spits and all following units. All material excavated from the test excavation units must be sieved using nested 5 mm aperture wire-mesh sieves.
- Test excavation units must be excavated to at least the base of the identified Aboriginal object-bearing units, and must continue to confirm the soils below are culturally sterile.
- All cultural material will be collected, bagged and clearly labelled. They will be temporarily stored in the Biosis office for analysis (at Unit 14, 17-27 Power Avenue, Alexandria).
- The following documentation will be taken for the test pit:
 - Unique test pit identification number.
 - GPS coordinate.
 - Munsell soil colour, texture and pH.
 - Amount and location of cultural material within the deposit.
 - Nature of disturbance where present.
 - Stratigraphy.
 - Archaeological features (if present).
 - Photographic records.
 - Spit records.
- The test excavation unit must be backfilled as soon as practicable due to safety issues.

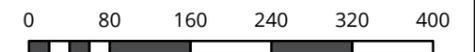
Following test excavation, an Aboriginal Site Recording form must be completed and submitted to the AHIMS Registrar, as soon as practicable, for each AHIMS site that has been identified.

Standard protocol for the discovery of any human remains is to be followed in the event that human remains are discovered.



Legend
 Study area

Figure 1: Study area detail



Metres
 Scale: 1:7,000 @ A3
 Coordinate System: GDA 1994 NSW Lambert



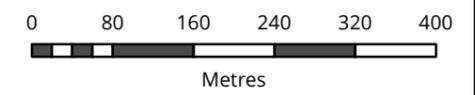
Albury, Ballarat, Melbourne,
 Newcastle, Sydney, Wangaratta & Wollongong



Legend

-  Study area
-  Survey tracks
- Survey results**
-  Artefact sites with PAD
-  Moderate potential

Figure 2: Survey results



Scale: 1:7,000 @ A3
Coordinate System: GDA 1994 NSW Lambert



Albury, Ballarat, Melbourne,
Newcastle, Sydney, Wangaratta & Wollongong

Matter: 28011
Date: 09 October 2018,
Checked by: MJS, Drawn by: JSP, Last edited by: lwilson
Location: P:\28000s\28011\mapping\28011_F6_SurveyResults

19 October 2018

Yurrandaali

Bo Field

Dear Bo,

RE: Moss Vale Aboriginal Cultural Heritage Assessment – project information

Our Ref: Matter 28011

Thank you for your registration of interest in this project. We are writing to you in order to provide you with the project information and methodology packs for the proposed development at Lot 3 DP 706194 and Lot 12 DP 866036, Moss Vale, NSW. This information has been provided in accordance with the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010a) (consultation requirements).

In this letter you will find the project information pack and project methodology.

The purpose of the methodology document is to provide you with further information on the background of this assessment, as well as the methodology for how it will be conducted, including the test excavations.

Please note that comments on the project methodology pack should be received before **5 pm 16 November 2018**.

As this project will involve test excavations, the purpose of the second letter is to invite your feedback on the proposed project information and methodology packs, and to assist the proponent in the programming of groups for participation in the test excavations which will be carried out within the study area.

If you have any queries regarding the project or the information in this letter, please don't hesitate to contact us.

Yours sincerely,

Mathew Smith



Archaeologist
msmith@biosis.com.au

Project information

The following information has been provided in accordance with the consultation requirements. The aim of this document is to provide registered Aboriginal parties with information about the proposed project and the scope of the Aboriginal archaeology and cultural heritage investigations and assessment.

Study area

The study area is located at Lot 3 DP 706194 and Lot 12 DP 866036, Moss Vale, NSW, within the Wingecarribee Shire Council Local Government Area (LGA), Parish of Bong Bong, and County of Camden.

Project

Aoyuan International are proposing to develop the study area into a number of residential blocks so Biosis Pty Ltd is assisting Aoyuan International with consultation with the Aboriginal community and the Aboriginal Cultural Heritage Assessment. Consultation with the Aboriginal community will follow the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010). The purpose of the Aboriginal community consultation will be to provide sufficient information for the assessment of Aboriginal cultural heritage values and to inform the Aboriginal Cultural Heritage Assessment (ACHA). This will assist with the possible application for an AHIP, and will assist the Office of Environment and Heritage (OEH) in consideration and determination of the AHIP application.

Aboriginal cultural heritage assessment process

The assessment process includes the following steps:

Background research

Background research has been undertaken in order to identify known Aboriginal sites, areas of potential archaeological sensitivity and previous disturbance, and inform the predictive modelling for the assessment area. Background research will be conducted in line with the requirements of the *Code of Practice for the Investigation of Aboriginal Objects in New South Wales* (DECCW 2010) ('the code'). Background research for the project included the following tasks:

- Conduct heritage register searches to identify previously recorded cultural heritage sites in or within the vicinity of the proposed study area. Searches will include the Aboriginal Heritage Information Management System (AHIMS), the National Heritage List, Commonwealth Heritage List, Register of the National Estate, State Heritage Register, Local Environmental Plan and National Trust heritage lists.
- Conduct additional background research in order to recognise any identifiable regional trends in site distribution and location and provide a site prediction model for the study area.
- Undertake a comprehensive survey of the study area, identifying any previously recorded sites (on AHIMS).
- Record and assess sites identified during the survey in compliance with the guidelines issued by the OEH.
- Assess the scientific significance of all identified Aboriginal cultural heritage sites and places;

- Identify impacts to all identified Aboriginal cultural heritage sites and places based on potential ground disturbance from the proposed realignment of the road.
- Make recommendations to minimise or mitigate potential impacts of the proposed realignment upon cultural heritage values within the study area.

Consultation with the Aboriginal community

This task will allow the Aboriginal community the opportunity to participate in decisions regarding the management of their cultural heritage by providing proponents information regarding cultural significance and input into management options.

Consultation with Aboriginal stakeholders under the DECCW 2010 consultation guidelines is being undertaken to assist School Infrastructure NSW by:

- providing relevant information about the cultural significance and values of the Aboriginal object(s) and/or place(s) within the study area.
- influencing the design of the method to assess cultural and scientific significance of Aboriginal objects(s) and/or place(s) within the study area.
- actively contributing to the development of cultural heritage management plan options and recommendations for any Aboriginal object(s) and/or place(s) within the proposed study area.
- commenting on the draft assessment reports before they are submitted by the proponent to the determining authority of the proposed realignment.

Aboriginal community consultation will be undertaken in accordance with the consultation requirements which includes:

- **Completed:** Ascertaining the names of Aboriginal people or groups who may hold cultural knowledge relevant to determining the significance of Aboriginal objects and/ or places within the proposed study area. This would include writing to the following:
 - Office of Environment and Heritage (OEH)
 - Local Aboriginal Land Council (LALC)
 - Office of the Registrar (Aboriginal Land Rights Act 1983)
 - National Native Title Tribunal (NNTT)
 - Native Title Services Corporation Limited (NTSCORP Limited)
 - Relevant Local Councils
 - Relevant Catchment Management Authorities
- **Completed:** Bosis will undertake the 'Placement of Notification' (Public Notice) in the *newspaper*, on behalf of Client, that must include details of the proponent, the project, the exact location, and statement of the purpose of the community consultation in preparation for possible test excavations and AHIPs. The Public Notice is also an invitation for Aboriginal people who hold relevant cultural knowledge about the study area. A closing date for the registration must be included and be no less than **14 days. Registration closed on 26 September 2018.**

- **Completed:** Aboriginal people or groups identified would be provided with notification of the proposed project via Biosis and given the opportunity to be involved in consultation. **Registrations of interest closed on 26 September 2018.**
- A list of Aboriginal people or groups who register an interest in the project will be forwarded to the OEH and the LALC by Biosis no later than **28 days** following close of registration. This list will not include those people or groups who specified that they did not want their details shared with OEH or the LALC.
- Biosis will provide details of the project and methodology for the archaeological assessment to the registered parties. The registered Aboriginal parties must be given an opportunity to review and provide feedback to the proponent within a minimum of **28 days** of the Biosis providing the methodology document.
- Selected representatives of the registered Aboriginal parties will be given the opportunity to participate in test excavations within the study area.
- The DRAFT ACHAR and Archaeological Report will be provided to all registered Aboriginal parties for comment – the proponent must allow **28 days** for comment. All comments and correspondence sent and received regarding the project will be included in the final report in an Appendix.

Field survey

An Aboriginal archaeological survey of the assessment area was undertaken in September 2018 by Biosis archaeologist Mathew Smith and Duncan Falk of Duncan Falk Consulting. This was undertaken in accordance with the guidelines outlined in the code in order to identify any previously unknown Aboriginal objects, sites or places, should they be present and to inspect previously recorded sites within the study area.

Two existing sites are located within the study area. Chelsea gardens Locale site 1 (AHIMS 52-4-0193) was located in the north eastern corner of the study area and contained artefacts eroding out of a silage pit. The second site was Chelsea gardens Locale site 2 (AHIMS 52-4-0194) and was located on a small knoll in the northern section of the study area. This site consisted of 10 artefacts eroding out soil profile. Both sites contained moderate potential for archaeological deposits.

The survey also identified two areas of moderate Aboriginal archaeological potential within the study area that were not associated with existing sites. These two areas were both located on hill crests. The rest of the study area contained low archaeological potential. These areas consisted of flat and hillslopes landforms, which due to the distance from water, the intensive use of these areas for cropping and livestock grazing and the steep slopes, contained low potential

Test excavation

The survey has identified the need for further assessment in the form of test excavations. This will be undertaken in accordance with the code. Further information on the methodology for this test excavation and the areas of potential archaeological deposit within the study area is available in the project methodology.

Reporting

A draft report will be prepared in accordance with the code and will include:

- Background and project description.
- A summary and analysis of the findings including the presence and location of registered or new identified Aboriginal artefacts or heritage items within the study area.
- A summary of any other relevant studies or surveys which have relevance to the assessment area.
- A summary of the landscape features of the site which may indicate a history of Aboriginal activity.
- A summary of previous land use that may have affected the retention of intact Aboriginal archaeology in the landscape.
- The potential or likelihood for the proposed works to uncover or expose potential undiscovered Aboriginal objects.
- Survey and test excavation results.
- Legislative implications of the proposed works.
- Recommendations and justification for further assessment (if required).
- Mitigation measures (if any) required for the works to proceed.
- Mapping will be carried out to show the location of registered and newly located (if any) Aboriginal sites in relation to the proposed works.

Registered Aboriginal parties will be provided with the draft report for comment and allowed 28 days for review.

The final report will incorporate all comments.

Project schedule

The proposed schedule and broad time allocations for the consultation stages are summarised below.

Action	Timeframe	Notes
Commencement of Aboriginal community consultation – advertising of project, Notification to stakeholders etc.	Completed	Project advertised in <i>Southern Highlands News</i> on 5 September 2018; notices sent to stakeholders 12 September 2018.
Field survey	Completed	Survey undertaken by Biosis archaeologist Mathew Smith and Duncan Falk of Duncan Falk Consultancy in September 2018.
Provision of client-reviewed DRAFT Methodology Document to registered Aboriginal stakeholders for review and comment – these methods will form the basis for all archaeological and cultural heritage work	TBC	28 days review time allowed under OEH Aboriginal community consultation guidelines.
Test excavations	TBC	
Information gathering		Until finalisation of the report

Action	Timeframe	Notes
Review of the draft report	TBC	28 days review time allowed under OEH Aboriginal community consultation guidelines
Completion and finalisation of report	TBC	

Responsibilities and roles

As part of the consultation process registered Aboriginal parties are invited to respond to requests for cultural information and comment on draft reporting, as appropriate in accordance with their role specified in the guidelines (DECCW 2010a, p. 16). Biosis and the proponent, in accordance with their role under the guidelines, will consult with the Aboriginal community by supplying suitable project information and providing the opportunity for Aboriginal stakeholders to provide input into the heritage management process (DECCW 2010a, pp. 16-17).

Each section of the methodology will be undertaken in consultation with the Aboriginal stakeholders. Biosis invites Aboriginal stakeholders to provide culturally appropriate information via mail, email or phone with regards to this project.

Cultural information provided will be recorded in the Aboriginal consultation log and discussed in the report. If the information is regarded as too sensitive to be made public then the Aboriginal stakeholder should advise Biosis and identify the nature of the sensitivity. Biosis will then arrange for the recording of the information in accordance with its sensitivity. Documents which hold sensitive information will clearly list, on the front cover, who can have access to the document. These documents will be stored securely.

References

Department of Environment, Climate Change and Water. 2010a. Code of practice for Archaeological Investigation of Aboriginal Objects in New South Wales 2010. NSW Department of Environment, Climate Change and Water, Sydney NSW.

Department of Environment, Climate Change and Water. 2010b. Aboriginal cultural heritage consultation requirements for proponents 2010. NSW Department of Environment, Climate Change and Water, Sydney NSW.

RE: Moss Vale Aboriginal Cultural Heritage Assessment - Project methodology

Our Ref: Matter 28011

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Kind regards,

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Mathew Smith

Archaeologist
msmith@biosis.com.au

Stage 3: Moss Vale Aboriginal Cultural Heritage Assessment: Methodology for test excavations

The following information has been provided in accordance with the consultation requirements. The aim of this document is to provide registered Aboriginal parties (RAPs) with the proposed methodology for the cultural heritage and archaeological assessment.

Biosis Pty Ltd recently completed an archaeological survey of the study area for Aboriginal archaeological heritage for the proposed works. Biosis identified two existing sites with areas of moderate potential and two areas of moderate potential on a crest landform within the study area (Figure 3). The two existing sites consisted of Chelsea Gardens Locale 1, an artefact scatter that was eroding out of a silage pit, and Chelsea Gardens Locale 2, an artefact scatter located eroding out of a small knoll. Both sites contained moderate archaeological potential. The proposed development will impact on these areas of potential, and as such further assessment would be required in the form of subsurface test excavations and an application for an Aboriginal Heritage Impact Permit (AHIP). The proposed methodology is detailed below for these test excavations.

Test excavation methodology

Aims of the sub-surface test excavations

The principle objectives of the subsurface test excavations are to identify and understand the nature, extent and significance of any archaeological sites located within areas of archaeological potential.

The aims of the testing program are to:

- Determine whether sub-surface archaeological deposits exist which may be impacted by the development.
- If so, to determine the extent and nature of such deposits.
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Test excavations across the study area will conform to the following methodology:

- Test excavations will be undertaken in areas identified as having the potential to contain Aboriginal cultural material.

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Standard protocol for the discovery of any human remains is to be followed in the event that human remains are discovered.



Legend
 Study area

Figure 1: Study area detail



Metres
 Scale: 1:7,000 @ A3
 Coordinate System: GDA 1994 NSW Lambert

biosis
 Biosis Pty Ltd
 Albury, Ballarat, Melbourne,
 Newcastle, Sydney, Wangaratta & Wollongong

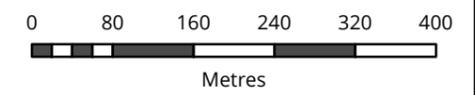
Matter: 28011
 Date: 09 October 2018,
 Checked by: MJS, Drawn by: JSP, Last edited by: lwilson
 Location: P:\28000s\28011\mapping\28011_F2_StudyArea



Legend

-  Study area
-  Survey tracks
- Survey results**
-  Artefact sites with PAD
-  Moderate potential

Figure 2: Survey results



Scale: 1:7,000 @ A3
 Coordinate System: GDA 1994 NSW Lambert



Albury, Ballarat, Melbourne,
 Newcastle, Sydney, Wangaratta & Wollongong

19 October 2018

Yulay Cultural Services

Arika Jalomaki

Dear Arika,

RE: Moss Vale Aboriginal Cultural Heritage Assessment – project information

Our Ref: Matter 28011

Thank you for your registration of interest in this project. We are writing to you in order to provide you with the project information and methodology packs for the proposed development at Lot 3 DP 706194 and Lot 12 DP 866036, Moss Vale, NSW. This information has been provided in accordance with the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010a) (consultation requirements).

In this letter you will find the project information pack and project methodology.

The purpose of the methodology document is to provide you with further information on the background of this assessment, as well as the methodology for how it will be conducted, including the test excavations.

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As this project will involve test excavations, the purpose of the second letter is to invite your feedback on the proposed project information and methodology packs, and to assist the proponent in the programming of groups for participation in the test excavations which will be carried out within the study area.

If you have any queries regarding the project or the information in this letter, please don't hesitate to contact us.

Yours sincerely,

Mathew Smith



Archaeologist
msmith@biosis.com.au

Project information

The following information has been provided in accordance with the consultation requirements. The aim of this document is to provide registered Aboriginal parties with information about the proposed project and the scope of the Aboriginal archaeology and cultural heritage investigations and assessment.

Study area

The study area is located at Lot 3 DP 706194 and Lot 12 DP 866036, Moss Vale, NSW, within the Wingecarribee Shire Council Local Government Area (LGA), Parish of Bong Bong, and County of Camden.

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Aoyuan International are proposing to develop the study area into a number of residential blocks so Biosis Pty Ltd is assisting Aoyuan International with consultation with the Aboriginal community and the Aboriginal Cultural Heritage Assessment. Consultation with the Aboriginal community will follow the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010). The purpose of the Aboriginal community consultation will be to provide sufficient information for the assessment of Aboriginal cultural heritage values and to inform the Aboriginal Cultural Heritage Assessment (ACHA). This will assist with the possible application for an AHIP, and will assist the Office of Environment and Heritage (OEH) in consideration and determination of the AHIP application.

Aboriginal cultural heritage assessment process

The assessment process includes the following steps:

Background research

Background research has been undertaken in order to identify known Aboriginal sites, areas of potential archaeological sensitivity and previous disturbance, and inform the predictive modelling for the assessment area. Background research will be conducted in line with the requirements of the *Code of Practice for the Investigation of Aboriginal Objects in New South Wales* (DECCW 2010) ('the code'). Background research for the project included the following tasks:

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This task will allow the Aboriginal community the opportunity to participate in decisions regarding the management of their cultural heritage by providing proponents information regarding cultural significance and input into management options.

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- influencing the design of the method to assess cultural and scientific significance of Aboriginal objects(s) and/or place(s) within the study area.
- actively contributing to the development of cultural heritage management plan options and recommendations for any Aboriginal object(s) and/or place(s) within the proposed study area.
- commenting on the draft assessment reports before they are submitted by the proponent to the determining authority of the proposed realignment.

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- **Completed:** Ascertaining the names of Aboriginal people or groups who may hold cultural knowledge relevant to determining the significance of Aboriginal objects and/ or places within the proposed study area. This would include writing to the following:
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- The DRAFT ACHAR and Archaeological Report will be provided to all registered Aboriginal parties for comment – the proponent must allow **28 days** for comment. All comments and correspondence sent and received regarding the project will be included in the final report in an Appendix.

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An Aboriginal archaeological survey of the assessment area was undertaken in September 2018 by Biosis archaeologist Mathew Smith and Duncan Falk of Duncan Falk Consulting. This was undertaken in accordance with the guidelines outlined in the code in order to identify any previously unknown Aboriginal objects, sites or places, should they be present and to inspect previously recorded sites within the study area.

Two existing sites are located within the study area. Chelsea gardens Locale site 1 (AHIMS 52-4-0193) was located in the north eastern corner of the study area and contained artefacts eroding out of a silage pit. The second site was Chelsea gardens Locale site 2 (AHIMS 52-4-0194) and was located on a small knoll in the northern section of the study area. This site consisted of 10 artefacts eroding out soil profile. Both sites contained moderate potential for archaeological deposits.

The survey also identified two areas of moderate Aboriginal archaeological potential within the study area that were not associated with existing sites. These two areas were both located on hill crests. The rest of the study area contained low archaeological potential. These areas consisted of flat and hillslopes landforms, which due to the distance from water, the intensive use of these areas for cropping and livestock grazing and the steep slopes, contained low potential

Test excavation

The survey has identified the need for further assessment in the form of test excavations. This will be undertaken in accordance with the code. Further information on the methodology for this test excavation and the areas of potential archaeological deposit within the study area is available in the project methodology.

Reporting

A draft report will be prepared in accordance with the code and will include:

- Background and project description.
- A summary and analysis of the findings including the presence and location of registered or new identified Aboriginal artefacts or heritage items within the study area.
- A summary of any other relevant studies or surveys which have relevance to the assessment area.
- A summary of the landscape features of the site which may indicate a history of Aboriginal activity.
- A summary of previous land use that may have affected the retention of intact Aboriginal archaeology in the landscape.
- The potential or likelihood for the proposed works to uncover or expose potential undiscovered Aboriginal objects.
- Survey and test excavation results.
- Legislative implications of the proposed works.
- Recommendations and justification for further assessment (if required).
- Mitigation measures (if any) required for the works to proceed.
- Mapping will be carried out to show the location of registered and newly located (if any) Aboriginal sites in relation to the proposed works.

Registered Aboriginal parties will be provided with the draft report for comment and allowed 28 days for review.

The final report will incorporate all comments.

Project schedule

The proposed schedule and broad time allocations for the consultation stages are summarised below.

Action	Timeframe	Notes
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Test excavations	TBC	
Information gathering		Until finalisation of the report

Action	Timeframe	Notes
Review of the draft report	TBC	28 days review time allowed under OEH Aboriginal community consultation guidelines
Completion and finalisation of report	TBC	

Responsibilities and roles

As part of the consultation process registered Aboriginal parties are invited to respond to requests for cultural information and comment on draft reporting, as appropriate in accordance with their role specified in the guidelines (DECCW 2010a, p. 16). Biosis and the proponent, in accordance with their role under the guidelines, will consult with the Aboriginal community by supplying suitable project information and providing the opportunity for Aboriginal stakeholders to provide input into the heritage management process (DECCW 2010a, pp. 16-17).

Each section of the methodology will be undertaken in consultation with the Aboriginal stakeholders. Biosis invites Aboriginal stakeholders to provide culturally appropriate information via mail, email or phone with regards to this project.

Cultural information provided will be recorded in the Aboriginal consultation log and discussed in the report. If the information is regarded as too sensitive to be made public then the Aboriginal stakeholder should advise Biosis and identify the nature of the sensitivity. Biosis will then arrange for the recording of the information in accordance with its sensitivity. Documents which hold sensitive information will clearly list, on the front cover, who can have access to the document. These documents will be stored securely.

References

Department of Environment, Climate Change and Water. 2010a. Code of practice for Archaeological Investigation of Aboriginal Objects in New South Wales 2010. NSW Department of Environment, Climate Change and Water, Sydney NSW.

Department of Environment, Climate Change and Water. 2010b. Aboriginal cultural heritage consultation requirements for proponents 2010. NSW Department of Environment, Climate Change and Water, Sydney NSW.

RE: Moss Vale Aboriginal Cultural Heritage Assessment - Project methodology

Our Ref: Matter 28011

This letter is being provided to all the Registered Aboriginal Parties (RAPs) who registered their interest in the consultation process for the Moss Vale development being undertaken by Aoyuan International (Figure 1, Figure 2).

In accordance with the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010) (consultation requirements), we provide the proposed methodology for the Aboriginal Cultural Heritage Assessment (ACHA) for your review and feedback.

It would be appreciated if you would provide feedback on the methodology presented in this letter to Biosis Pty Ltd by **5 pm 16 November 2018** either by email, phone or return mail.

Please address feedback on the methodology to:

Mathew Smith
Biosis Pty Ltd
8 Tate Street
Wollongong NSW 2500
msmith@biosis.com.au

Please do not hesitate to contact me if you require additional information or have any queries about the methodology or information provided.

Kind regards,

A handwritten signature in blue ink that reads "M Smith".

Mathew Smith

Archaeologist
msmith@biosis.com.au

Stage 3: Moss Vale Aboriginal Cultural Heritage Assessment: Methodology for test excavations

The following information has been provided in accordance with the consultation requirements. The aim of this document is to provide registered Aboriginal parties (RAPs) with the proposed methodology for the cultural heritage and archaeological assessment.

Biosis Pty Ltd recently completed an archaeological survey of the study area for Aboriginal archaeological heritage for the proposed works. Biosis identified two existing sites with areas of moderate potential and two areas of moderate potential on a crest landform within the study area (Figure 3). The two existing sites consisted of Chelsea Gardens Locale 1, an artefact scatter that was eroding out of a silage pit, and Chelsea Gardens Locale 2, an artefact scatter located eroding out of a small knoll. Both sites contained moderate archaeological potential. The proposed development will impact on these areas of potential, and as such further assessment would be required in the form of subsurface test excavations and an application for an Aboriginal Heritage Impact Permit (AHIP). The proposed methodology is detailed below for these test excavations.

Test excavation methodology

Aims of the sub-surface test excavations

The principle objectives of the subsurface test excavations are to identify and understand the nature, extent and significance of any archaeological sites located within areas of archaeological potential.

The aims of the testing program are to:

- Determine whether sub-surface archaeological deposits exist which may be impacted by the development.
- If so, to determine the extent and nature of such deposits.
- Identify if the archaeological material occurs in an intact, undisturbed context, by examining the soil profile and stratigraphy.
- Analyse and interpret any archaeological finds (such as stone artefacts, shell midden deposits, etc.) recovered during the testing program.
- Inform current knowledge of Aboriginal occupation and land use models of the region.
- Provide management and mitigation measures for Aboriginal archaeological objects located during the subsurface testing program.

Test excavation sampling strategy

Test excavations across the study area will conform to the following methodology:

- Test excavations will be undertaken in areas identified as having the potential to contain Aboriginal cultural material.

- Test excavation units will consist of one 50 cm x 50 cm test pit, in order to determine the nature of sub-surface deposit and presence of any possible archaeological deposits.
- Test excavations units must be excavated using hand tools only including spades, handle shovels, and trowels.
- The first test excavation unit will be excavated and documented in 5 cm spits and all following units. All material excavated from the test excavation units must be sieved using nested 5 mm aperture wire-mesh sieves.
- Test excavation units must be excavated to at least the base of the identified Aboriginal object-bearing units, and must continue to confirm the soils below are culturally sterile.
- All cultural material will be collected, bagged and clearly labelled. They will be temporarily stored in the Biosis office for analysis (at Unit 14, 17-27 Power Avenue, Alexandria).
- The following documentation will be taken for the test pit:
 - Unique test pit identification number.
 - GPS coordinate.
 - Munsell soil colour, texture and pH.
 - Amount and location of cultural material within the deposit.
 - Nature of disturbance where present.
 - Stratigraphy.
 - Archaeological features (if present).
 - Photographic records.
 - Spit records.
- The test excavation unit must be backfilled as soon as practicable due to safety issues.

Following test excavation, an Aboriginal Site Recording form must be completed and submitted to the AHIMS Registrar, as soon as practicable, for each AHIMS site that has been identified.

Standard protocol for the discovery of any human remains is to be followed in the event that human remains are discovered.



Legend
 Study area

Figure 1: Study area detail



Metres
 Scale: 1:7,000 @ A3
 Coordinate System: GDA 1994 NSW Lambert



Albury, Ballarat, Melbourne,
 Newcastle, Sydney, Wangaratta & Wollongong

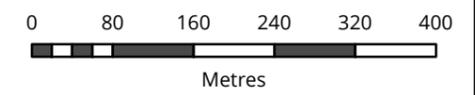
Matter: 28011
 Date: 09 October 2018,
 Checked by: MJS, Drawn by: JSP, Last edited by: lwilson
 Location: P:\28000s\28011\Mapping\28011_F2_StudyArea



Legend

-  Study area
-  Survey tracks
- Survey results**
-  Artefact sites with PAD
-  Moderate potential

Figure 2: Survey results



Scale: 1:7,000 @ A3
Coordinate System: GDA 1994 NSW Lambert



Albury, Ballarat, Melbourne,
Newcastle, Sydney, Wangaratta & Wollongong

19 October 2018

Barraby Cultural Services

Lee Field

Dear Lee,

RE: Moss Vale Aboriginal Cultural Heritage Assessment – project information

Our Ref: Matter 28011

Thank you for your registration of interest in this project. We are writing to you in order to provide you with the project information and methodology packs for the proposed development at Lot 3 DP 706194 and Lot 12 DP 866036, Moss Vale, NSW. This information has been provided in accordance with the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010a) (consultation requirements).

In this letter you will find the project information pack and project methodology.

The purpose of the methodology document is to provide you with further information on the background of this assessment, as well as the methodology for how it will be conducted, including the test excavations.

Please note that comments on the project methodology pack should be received before **5 pm 16 November 2018**.

As this project will involve test excavations, the purpose of the second letter is to invite your feedback on the proposed project information and methodology packs, and to assist the proponent in the programming of groups for participation in the test excavations which will be carried out within the study area.

If you have any queries regarding the project or the information in this letter, please don't hesitate to contact us.

Yours sincerely,

Mathew Smith



Archaeologist
msmith@biosis.com.au

Project information

The following information has been provided in accordance with the consultation requirements. The aim of this document is to provide registered Aboriginal parties with information about the proposed project and the scope of the Aboriginal archaeology and cultural heritage investigations and assessment.

Study area

The study area is located at Lot 3 DP 706194 and Lot 12 DP 866036, Moss Vale, NSW, within the Wingecarribee Shire Council Local Government Area (LGA), Parish of Bong Bong, and County of Camden.

Project

Aoyuan International are proposing to develop the study area into a number of residential blocks so Biosis Pty Ltd is assisting Aoyuan International with consultation with the Aboriginal community and the Aboriginal Cultural Heritage Assessment. Consultation with the Aboriginal community will follow the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010). The purpose of the Aboriginal community consultation will be to provide sufficient information for the assessment of Aboriginal cultural heritage values and to inform the Aboriginal Cultural Heritage Assessment (ACHA). This will assist with the possible application for an AHIP, and will assist the Office of Environment and Heritage (OEH) in consideration and determination of the AHIP application.

Aboriginal cultural heritage assessment process

The assessment process includes the following steps:

Background research

Background research has been undertaken in order to identify known Aboriginal sites, areas of potential archaeological sensitivity and previous disturbance, and inform the predictive modelling for the assessment area. Background research will be conducted in line with the requirements of the *Code of Practice for the Investigation of Aboriginal Objects in New South Wales* (DECCW 2010) ('the code'). Background research for the project included the following tasks:

- Conduct heritage register searches to identify previously recorded cultural heritage sites in or within the vicinity of the proposed study area. Searches will include the Aboriginal Heritage Information Management System (AHIMS), the National Heritage List, Commonwealth Heritage List, Register of the National Estate, State Heritage Register, Local Environmental Plan and National Trust heritage lists.
- Conduct additional background research in order to recognise any identifiable regional trends in site distribution and location and provide a site prediction model for the study area.
- Undertake a comprehensive survey of the study area, identifying any previously recorded sites (on AHIMS).
- Record and assess sites identified during the survey in compliance with the guidelines issued by the OEH.
- Assess the scientific significance of all identified Aboriginal cultural heritage sites and places;

- Identify impacts to all identified Aboriginal cultural heritage sites and places based on potential ground disturbance from the proposed realignment of the road.
- Make recommendations to minimise or mitigate potential impacts of the proposed realignment upon cultural heritage values within the study area.

Consultation with the Aboriginal community

This task will allow the Aboriginal community the opportunity to participate in decisions regarding the management of their cultural heritage by providing proponents information regarding cultural significance and input into management options.

Consultation with Aboriginal stakeholders under the DECCW 2010 consultation guidelines is being undertaken to assist School Infrastructure NSW by:

- providing relevant information about the cultural significance and values of the Aboriginal object(s) and/or place(s) within the study area.
- influencing the design of the method to assess cultural and scientific significance of Aboriginal objects(s) and/or place(s) within the study area.
- actively contributing to the development of cultural heritage management plan options and recommendations for any Aboriginal object(s) and/or place(s) within the proposed study area.
- commenting on the draft assessment reports before they are submitted by the proponent to the determining authority of the proposed realignment.

Aboriginal community consultation will be undertaken in accordance with the consultation requirements which includes:

- **Completed:** Ascertaining the names of Aboriginal people or groups who may hold cultural knowledge relevant to determining the significance of Aboriginal objects and/ or places within the proposed study area. This would include writing to the following:
 - Office of Environment and Heritage (OEH)
 - Local Aboriginal Land Council (LALC)
 - Office of the Registrar (Aboriginal Land Rights Act 1983)
 - National Native Title Tribunal (NNTT)
 - Native Title Services Corporation Limited (NTSCORP Limited)
 - Relevant Local Councils
 - Relevant Catchment Management Authorities
- **Completed:** Bosis will undertake the 'Placement of Notification' (Public Notice) in the *newspaper*, on behalf of Client, that must include details of the proponent, the project, the exact location, and statement of the purpose of the community consultation in preparation for possible test excavations and AHIPs. The Public Notice is also an invitation for Aboriginal people who hold relevant cultural knowledge about the study area. A closing date for the registration must be included and be no less than **14 days. Registration closed on 26 September 2018.**

- **Completed:** Aboriginal people or groups identified would be provided with notification of the proposed project via Biosis and given the opportunity to be involved in consultation. **Registrations of interest closed on 26 September 2018.**
- A list of Aboriginal people or groups who register an interest in the project will be forwarded to the OEH and the LALC by Biosis no later than **28 days** following close of registration. This list will not include those people or groups who specified that they did not want their details shared with OEH or the LALC.
- Biosis will provide details of the project and methodology for the archaeological assessment to the registered parties. The registered Aboriginal parties must be given an opportunity to review and provide feedback to the proponent within a minimum of **28 days** of the Biosis providing the methodology document.
- Selected representatives of the registered Aboriginal parties will be given the opportunity to participate in test excavations within the study area.
- The DRAFT ACHAR and Archaeological Report will be provided to all registered Aboriginal parties for comment – the proponent must allow **28 days** for comment. All comments and correspondence sent and received regarding the project will be included in the final report in an Appendix.

Field survey

An Aboriginal archaeological survey of the assessment area was undertaken in September 2018 by Biosis archaeologist Mathew Smith and Duncan Falk of Duncan Falk Consulting. This was undertaken in accordance with the guidelines outlined in the code in order to identify any previously unknown Aboriginal objects, sites or places, should they be present and to inspect previously recorded sites within the study area.

Two existing sites are located within the study area. Chelsea gardens Locale site 1 (AHIMS 52-4-0193) was located in the north eastern corner of the study area and contained artefacts eroding out of a silage pit. The second site was Chelsea gardens Locale site 2 (AHIMS 52-4-0194) and was located on a small knoll in the northern section of the study area. This site consisted of 10 artefacts eroding out soil profile. Both sites contained moderate potential for archaeological deposits.

The survey also identified two areas of moderate Aboriginal archaeological potential within the study area that were not associated with existing sites. These two areas were both located on hill crests. The rest of the study area contained low archaeological potential. These areas consisted of flat and hillslopes landforms, which due to the distance from water, the intensive use of these areas for cropping and livestock grazing and the steep slopes, contained low potential

Test excavation

The survey has identified the need for further assessment in the form of test excavations. This will be undertaken in accordance with the code. Further information on the methodology for this test excavation and the areas of potential archaeological deposit within the study area is available in the project methodology.

Reporting

A draft report will be prepared in accordance with the code and will include:

- Background and project description.
- A summary and analysis of the findings including the presence and location of registered or new identified Aboriginal artefacts or heritage items within the study area.
- A summary of any other relevant studies or surveys which have relevance to the assessment area.
- A summary of the landscape features of the site which may indicate a history of Aboriginal activity.
- A summary of previous land use that may have affected the retention of intact Aboriginal archaeology in the landscape.
- The potential or likelihood for the proposed works to uncover or expose potential undiscovered Aboriginal objects.
- Survey and test excavation results.
- Legislative implications of the proposed works.
- Recommendations and justification for further assessment (if required).
- Mitigation measures (if any) required for the works to proceed.
- Mapping will be carried out to show the location of registered and newly located (if any) Aboriginal sites in relation to the proposed works.

Registered Aboriginal parties will be provided with the draft report for comment and allowed 28 days for review.

The final report will incorporate all comments.

Project schedule

The proposed schedule and broad time allocations for the consultation stages are summarised below.

Action	Timeframe	Notes
Commencement of Aboriginal community consultation – advertising of project, Notification to stakeholders etc.	Completed	Project advertised in <i>Southern Highlands News</i> on 5 September 2018; notices sent to stakeholders 12 September 2018.
Field survey	Completed	Survey undertaken by Biosis archaeologist Mathew Smith and Duncan Falk of Duncan Falk Consultancy in September 2018.
Provision of client-reviewed DRAFT Methodology Document to registered Aboriginal stakeholders for review and comment – these methods will form the basis for all archaeological and cultural heritage work	TBC	28 days review time allowed under OEH Aboriginal community consultation guidelines.
Test excavations	TBC	
Information gathering		Until finalisation of the report

Action	Timeframe	Notes
Review of the draft report	TBC	28 days review time allowed under OEH Aboriginal community consultation guidelines
Completion and finalisation of report	TBC	

Responsibilities and roles

As part of the consultation process registered Aboriginal parties are invited to respond to requests for cultural information and comment on draft reporting, as appropriate in accordance with their role specified in the guidelines (DECCW 2010a, p. 16). Biosis and the proponent, in accordance with their role under the guidelines, will consult with the Aboriginal community by supplying suitable project information and providing the opportunity for Aboriginal stakeholders to provide input into the heritage management process (DECCW 2010a, pp. 16-17).

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RE: Moss Vale Aboriginal Cultural Heritage Assessment - Project methodology

Our Ref: Matter 28011

This letter is being provided to all the Registered Aboriginal Parties (RAPs) who registered their interest in the consultation process for the Moss Vale development being undertaken by Aoyuan International (Figure 1, Figure 2).

In accordance with the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010) (consultation requirements), we provide the proposed methodology for the Aboriginal Cultural Heritage Assessment (ACHA) for your review and feedback.

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Please address feedback on the methodology to:

Mathew Smith
Biosis Pty Ltd
8 Tate Street
Wollongong NSW 2500
msmith@biosis.com.au

Please do not hesitate to contact me if you require additional information or have any queries about the methodology or information provided.

Kind regards,

A handwritten signature in blue ink, appearing to read 'M Smith'.

Mathew Smith

Archaeologist
msmith@biosis.com.au

Stage 3: Moss Vale Aboriginal Cultural Heritage Assessment: Methodology for test excavations

The following information has been provided in accordance with the consultation requirements. The aim of this document is to provide registered Aboriginal parties (RAPs) with the proposed methodology for the cultural heritage and archaeological assessment.

Biosis Pty Ltd recently completed an archaeological survey of the study area for Aboriginal archaeological heritage for the proposed works. Biosis identified two existing sites with areas of moderate potential and two areas of moderate potential on a crest landform within the study area (Figure 3). The two existing sites consisted of Chelsea Gardens Locale 1, an artefact scatter that was eroding out of a silage pit, and Chelsea Gardens Locale 2, an artefact scatter located eroding out of a small knoll. Both sites contained moderate archaeological potential. The proposed development will impact on these areas of potential, and as such further assessment would be required in the form of subsurface test excavations and an application for an Aboriginal Heritage Impact Permit (AHIP). The proposed methodology is detailed below for these test excavations.

Test excavation methodology

Aims of the sub-surface test excavations

The principle objectives of the subsurface test excavations are to identify and understand the nature, extent and significance of any archaeological sites located within areas of archaeological potential.

The aims of the testing program are to:

- Determine whether sub-surface archaeological deposits exist which may be impacted by the development.
- If so, to determine the extent and nature of such deposits.
- Identify if the archaeological material occurs in an intact, undisturbed context, by examining the soil profile and stratigraphy.
- Analyse and interpret any archaeological finds (such as stone artefacts, shell midden deposits, etc.) recovered during the testing program.
- Inform current knowledge of Aboriginal occupation and land use models of the region.
- Provide management and mitigation measures for Aboriginal archaeological objects located during the subsurface testing program.

Test excavation sampling strategy

Test excavations across the study area will conform to the following methodology:

- Test excavations will be undertaken in areas identified as having the potential to contain Aboriginal cultural material.

- Test excavation units will consist of one 50 cm x 50 cm test pit, in order to determine the nature of sub-surface deposit and presence of any possible archaeological deposits.
- Test excavations units must be excavated using hand tools only including spades, handle shovels, and trowels.
- The first test excavation unit will be excavated and documented in 5 cm spits and all following units. All material excavated from the test excavation units must be sieved using nested 5 mm aperture wire-mesh sieves.
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- The following documentation will be taken for the test pit:
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 - GPS coordinate.
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 - Amount and location of cultural material within the deposit.
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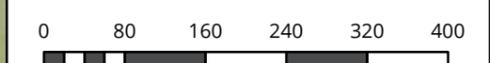
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Standard protocol for the discovery of any human remains is to be followed in the event that human remains are discovered.



Legend
 Study area

Figure 1: Study area detail



Metres
 Scale: 1:7,000 @ A3
 Coordinate System: GDA 1994 NSW Lambert

biosis
 Biosis Pty Ltd
 Albury, Ballarat, Melbourne,
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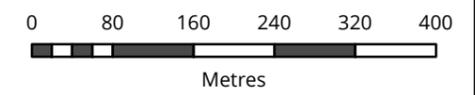
Matter: 28011
 Date: 09 October 2018,
 Checked by: MJS, Drawn by: JSP, Last edited by: lwilson
 Location: P:\28000s\28011\Mapping\28011_F2_StudyArea



Legend

-  Study area
-  Survey tracks
- Survey results**
-  Artefact sites with PAD
-  Moderate potential

Figure 2: Survey results



Scale: 1:7,000 @ A3
Coordinate System: GDA 1994 NSW Lambert



Albury, Ballarat, Melbourne,
Newcastle, Sydney, Wangaratta & Wollongong

19 October 2018

Illawarra Local Aboriginal Land Council

Paul Knight

Dear Paul,

RE: Moss Vale Aboriginal Cultural Heritage Assessment – project information

Our Ref: Matter 28011

Thank you for your registration of interest in this project. We are writing to you in order to provide you with the project information and methodology packs for the proposed development at Lot 3 DP 706194 and Lot 12 DP 866036, Moss Vale, NSW. This information has been provided in accordance with the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010a) (consultation requirements).

In this letter you will find the project information pack and project methodology.

The purpose of the methodology document is to provide you with further information on the background of this assessment, as well as the methodology for how it will be conducted, including the test excavations.

Please note that comments on the project methodology pack should be received before **5 pm 16 November 2018**.

As this project will involve test excavations, the purpose of the second letter is to invite your feedback on the proposed project information and methodology packs, and to assist the proponent in the programming of groups for participation in the test excavations which will be carried out within the study area.

If you have any queries regarding the project or the information in this letter, please don't hesitate to contact us.

Yours sincerely,

Mathew Smith



Archaeologist
msmith@biosis.com.au

Project information

The following information has been provided in accordance with the consultation requirements. The aim of this document is to provide registered Aboriginal parties with information about the proposed project and the scope of the Aboriginal archaeology and cultural heritage investigations and assessment.

Study area

The study area is located at Lot 3 DP 706194 and Lot 12 DP 866036, Moss Vale, NSW, within the Wingecarribee Shire Council Local Government Area (LGA), Parish of Bong Bong, and County of Camden.

Project

Aoyuan International are proposing to develop the study area into a number of residential blocks so Biosis Pty Ltd is assisting Aoyuan International with consultation with the Aboriginal community and the Aboriginal Cultural Heritage Assessment. Consultation with the Aboriginal community will follow the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010). The purpose of the Aboriginal community consultation will be to provide sufficient information for the assessment of Aboriginal cultural heritage values and to inform the Aboriginal Cultural Heritage Assessment (ACHA). This will assist with the possible application for an AHIP, and will assist the Office of Environment and Heritage (OEH) in consideration and determination of the AHIP application.

Aboriginal cultural heritage assessment process

The assessment process includes the following steps:

Background research

Background research has been undertaken in order to identify known Aboriginal sites, areas of potential archaeological sensitivity and previous disturbance, and inform the predictive modelling for the assessment area. Background research will be conducted in line with the requirements of the *Code of Practice for the Investigation of Aboriginal Objects in New South Wales* (DECCW 2010) ('the code'). Background research for the project included the following tasks:

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- Identify impacts to all identified Aboriginal cultural heritage sites and places based on potential ground disturbance from the proposed realignment of the road.
- Make recommendations to minimise or mitigate potential impacts of the proposed realignment upon cultural heritage values within the study area.

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Consultation with Aboriginal stakeholders under the DECCW 2010 consultation guidelines is being undertaken to assist School Infrastructure NSW by:

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- influencing the design of the method to assess cultural and scientific significance of Aboriginal objects(s) and/or place(s) within the study area.
- actively contributing to the development of cultural heritage management plan options and recommendations for any Aboriginal object(s) and/or place(s) within the proposed study area.
- commenting on the draft assessment reports before they are submitted by the proponent to the determining authority of the proposed realignment.

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An Aboriginal archaeological survey of the assessment area was undertaken in September 2018 by Biosis archaeologist Mathew Smith and Duncan Falk of Duncan Falk Consulting. This was undertaken in accordance with the guidelines outlined in the code in order to identify any previously unknown Aboriginal objects, sites or places, should they be present and to inspect previously recorded sites within the study area.

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The survey also identified two areas of moderate Aboriginal archaeological potential within the study area that were not associated with existing sites. These two areas were both located on hill crests. The rest of the study area contained low archaeological potential. These areas consisted of flat and hillslopes landforms, which due to the distance from water, the intensive use of these areas for cropping and livestock grazing and the steep slopes, contained low potential

Test excavation

The survey has identified the need for further assessment in the form of test excavations. This will be undertaken in accordance with the code. Further information on the methodology for this test excavation and the areas of potential archaeological deposit within the study area is available in the project methodology.

Reporting

A draft report will be prepared in accordance with the code and will include:

- Background and project description.
- A summary and analysis of the findings including the presence and location of registered or new identified Aboriginal artefacts or heritage items within the study area.
- A summary of any other relevant studies or surveys which have relevance to the assessment area.
- A summary of the landscape features of the site which may indicate a history of Aboriginal activity.
- A summary of previous land use that may have affected the retention of intact Aboriginal archaeology in the landscape.
- The potential or likelihood for the proposed works to uncover or expose potential undiscovered Aboriginal objects.
- Survey and test excavation results.
- Legislative implications of the proposed works.
- Recommendations and justification for further assessment (if required).
- Mitigation measures (if any) required for the works to proceed.
- Mapping will be carried out to show the location of registered and newly located (if any) Aboriginal sites in relation to the proposed works.

Registered Aboriginal parties will be provided with the draft report for comment and allowed 28 days for review.

The final report will incorporate all comments.

Project schedule

The proposed schedule and broad time allocations for the consultation stages are summarised below.

Action	Timeframe	Notes
Commencement of Aboriginal community consultation – advertising of project, Notification to stakeholders etc.	Completed	Project advertised in <i>Southern Highlands News</i> on 5 September 2018; notices sent to stakeholders 12 September 2018.
Field survey	Completed	Survey undertaken by Biosis archaeologist Mathew Smith and Duncan Falk of Duncan Falk Consultancy in September 2018.
Provision of client-reviewed DRAFT Methodology Document to registered Aboriginal stakeholders for review and comment – these methods will form the basis for all archaeological and cultural heritage work	TBC	28 days review time allowed under OEH Aboriginal community consultation guidelines.
Test excavations	TBC	
Information gathering		Until finalisation of the report

Action	Timeframe	Notes
Review of the draft report	TBC	28 days review time allowed under OEH Aboriginal community consultation guidelines
Completion and finalisation of report	TBC	

Responsibilities and roles

As part of the consultation process registered Aboriginal parties are invited to respond to requests for cultural information and comment on draft reporting, as appropriate in accordance with their role specified in the guidelines (DECCW 2010a, p. 16). Biosis and the proponent, in accordance with their role under the guidelines, will consult with the Aboriginal community by supplying suitable project information and providing the opportunity for Aboriginal stakeholders to provide input into the heritage management process (DECCW 2010a, pp. 16-17).

Each section of the methodology will be undertaken in consultation with the Aboriginal stakeholders. Biosis invites Aboriginal stakeholders to provide culturally appropriate information via mail, email or phone with regards to this project.

Cultural information provided will be recorded in the Aboriginal consultation log and discussed in the report. If the information is regarded as too sensitive to be made public then the Aboriginal stakeholder should advise Biosis and identify the nature of the sensitivity. Biosis will then arrange for the recording of the information in accordance with its sensitivity. Documents which hold sensitive information will clearly list, on the front cover, who can have access to the document. These documents will be stored securely.

References

Department of Environment, Climate Change and Water. 2010a. Code of practice for Archaeological Investigation of Aboriginal Objects in New South Wales 2010. NSW Department of Environment, Climate Change and Water, Sydney NSW.

Department of Environment, Climate Change and Water. 2010b. Aboriginal cultural heritage consultation requirements for proponents 2010. NSW Department of Environment, Climate Change and Water, Sydney NSW.

RE: Moss Vale Aboriginal Cultural Heritage Assessment - Project methodology

Our Ref: Matter 28011

This letter is being provided to all the Registered Aboriginal Parties (RAPs) who registered their interest in the consultation process for the Moss Vale development being undertaken by Aoyuan International (Figure 1, Figure 2).

In accordance with the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010) (consultation requirements), we provide the proposed methodology for the Aboriginal Cultural Heritage Assessment (ACHA) for your review and feedback.

It would be appreciated if you would provide feedback on the methodology presented in this letter to Biosis Pty Ltd by **5 pm 16 November 2018** either by email, phone or return mail.

Please address feedback on the methodology to:

Mathew Smith
Biosis Pty Ltd
8 Tate Street
Wollongong NSW 2500
msmith@biosis.com.au

Please do not hesitate to contact me if you require additional information or have any queries about the methodology or information provided.

Kind regards,

A handwritten signature in blue ink that reads 'M Smith'.

Mathew Smith

Archaeologist
msmith@biosis.com.au

Stage 3: Moss Vale Aboriginal Cultural Heritage Assessment: Methodology for test excavations

The following information has been provided in accordance with the consultation requirements. The aim of this document is to provide registered Aboriginal parties (RAPs) with the proposed methodology for the cultural heritage and archaeological assessment.

Biosis Pty Ltd recently completed an archaeological survey of the study area for Aboriginal archaeological heritage for the proposed works. Biosis identified two existing sites with areas of moderate potential and two areas of moderate potential on a crest landform within the study area (Figure 3). The two existing sites consisted of Chelsea Gardens Locale 1, an artefact scatter that was eroding out of a silage pit, and Chelsea Gardens Locale 2, an artefact scatter located eroding out of a small knoll. Both sites contained moderate archaeological potential. The proposed development will impact on these areas of potential, and as such further assessment would be required in the form of subsurface test excavations and an application for an Aboriginal Heritage Impact Permit (AHIP). The proposed methodology is detailed below for these test excavations.

Test excavation methodology

Aims of the sub-surface test excavations

The principle objectives of the subsurface test excavations are to identify and understand the nature, extent and significance of any archaeological sites located within areas of archaeological potential.

The aims of the testing program are to:

- Determine whether sub-surface archaeological deposits exist which may be impacted by the development.
- If so, to determine the extent and nature of such deposits.
- Identify if the archaeological material occurs in an intact, undisturbed context, by examining the soil profile and stratigraphy.
- Analyse and interpret any archaeological finds (such as stone artefacts, shell midden deposits, etc.) recovered during the testing program.
- Inform current knowledge of Aboriginal occupation and land use models of the region.
- Provide management and mitigation measures for Aboriginal archaeological objects located during the subsurface testing program.

Test excavation sampling strategy

Test excavations across the study area will conform to the following methodology:

- Test excavations will be undertaken in areas identified as having the potential to contain Aboriginal cultural material.

- Test excavation units will consist of one 50 cm x 50 cm test pit, in order to determine the nature of sub-surface deposit and presence of any possible archaeological deposits.
- Test excavations units must be excavated using hand tools only including spades, handle shovels, and trowels.
- The first test excavation unit will be excavated and documented in 5 cm spits and all following units. All material excavated from the test excavation units must be sieved using nested 5 mm aperture wire-mesh sieves.
- Test excavation units must be excavated to at least the base of the identified Aboriginal object-bearing units, and must continue to confirm the soils below are culturally sterile.
- All cultural material will be collected, bagged and clearly labelled. They will be temporarily stored in the Biosis office for analysis (at Unit 14, 17-27 Power Avenue, Alexandria).
- The following documentation will be taken for the test pit:
 - Unique test pit identification number.
 - GPS coordinate.
 - Munsell soil colour, texture and pH.
 - Amount and location of cultural material within the deposit.
 - Nature of disturbance where present.
 - Stratigraphy.
 - Archaeological features (if present).
 - Photographic records.
 - Spit records.
- The test excavation unit must be backfilled as soon as practicable due to safety issues.

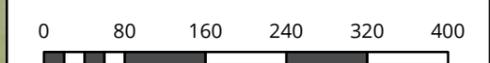
Following test excavation, an Aboriginal Site Recording form must be completed and submitted to the AHIMS Registrar, as soon as practicable, for each AHIMS site that has been identified.

Standard protocol for the discovery of any human remains is to be followed in the event that human remains are discovered.



Legend
 Study area

Figure 1: Study area detail



Metres
 Scale: 1:7,000 @ A3
 Coordinate System: GDA 1994 NSW Lambert



biosis
 Biosis Pty Ltd
 Albury, Ballarat, Melbourne,
 Newcastle, Sydney, Wangaratta & Wollongong

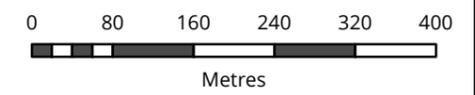
Matter: 28011
 Date: 09 October 2018,
 Checked by: MJS, Drawn by: JSP, Last edited by: lwilson
 Location: P:\28000s\28011\Mapping\
 28011_F2_StudyArea



Legend

-  Study area
-  Survey tracks
- Survey results**
-  Artefact sites with PAD
-  Moderate potential

Figure 2: Survey results



Scale: 1:7,000 @ A3
Coordinate System: GDA 1994 NSW Lambert



Albury, Ballarat, Melbourne,
Newcastle, Sydney, Wangaratta & Wollongong

Matter: 28011
Date: 09 October 2018,
Checked by: MJS, Drawn by: JSP, Last edited by: lwilson
Location: P:\28000s\28011\Mapping\28011_F6_SurveyResults

Mathew Smith

From: Leanne Tungai <leannecaroltungai@gmail.com>
Sent: Friday, 19 October 2018 6:19 PM
To: Mathew Smith
Subject: Re: 28011 Stage 2 and stage 3 consultation Moss Vale

Received, thank you.

On Fri, 19 Oct 2018 at 4:30 pm, Mathew Smith <MSmith@biosis.com.au> wrote:

Hi Leanne,

Thank you for registering an interest in the Moss Vale project. Please find attached the stage 2 and stage 3 consultation documents including project information and project methodology. If you have any comments on the project methodology please send them through in writing or by phone by 5 pm 16 November 2018.

Let me know if you have any questions.

Kind regards,

Mat

Mathew Smith
Archaeologist
M: 0409 991 176
D: (02) 4201 1090
E: msmith@biosis.com.au



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Mathew Smith

From: lee field <barrabyculturalservices@gmail.com>
Sent: Monday, 22 October 2018 11:27 AM
To: Mathew Smith
Subject: Re: 28011 Stage 2 and stage 3 consultation Moss Vale
Attachments: image0a7b8d.PNG

Dear Mathew

Barraby Cultural Services supports the methodology for this project.

Kind Regards
Lee Field

On Fri, 19 Oct. 2018, 4:41 pm Mathew Smith, <MSmith@biosis.com.au> wrote:

Hi Lee,

Thank you for registering an interest in the Moss Vale project. Please find attached the stage 2 and stage 3 consultation documents including project information and project methodology. If you have any comments on the project methodology please send them through in writing or by phone by 5 pm 16 November 2018.

Let me know if you have any questions.

Kind regards,

Mat

Mathew Smith
Archaeologist
M: 0409 991 176
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E: msmith@biosis.com.au



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Mathew Smith

From: Bo Field <yurrandaali_cs@hotmail.com>
Sent: Monday, 22 October 2018 11:32 AM
To: Mathew Smith
Subject: Re: 28011 Stage 2 and stage 3 consultation Moss Vale

Dear Mathew

Yurrandaali Cultural Services supports the methodology for this project.

Kind Regards
Bo Field

On 19 Oct. 2018 4:39 pm, Mathew Smith wrote:

Hi Bo,

Thank you for registering an interest in the Moss Vale project. Please find attached the stage 2 and stage 3 consultation documents including project information and project methodology. If you have any comments on the project methodology please send them through in writing or by phone by 5 pm 16 November 2018.

Let me know if you have any questions.

Kind regards,

Mat

Mathew Smith
Archaeologist
M: 0409 991 176
D: (02) 4201 1090
E: msmith@biosis.com.au



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Mathew Smith

From: arika jalomaki <yulayculturalservices@gmail.com>
Sent: Monday, 22 October 2018 11:38 AM
To: Mathew Smith
Subject: Re: 28011 Stage 2 and stage 3 consultation Moss Vale

Dear Mathew

Yulay Cultural Services supports the methodology for this project.

Kind Regards
Arika Jalomaki

On Friday, October 19, 2018, Mathew Smith <MSmith@biosis.com.au> wrote:

Hi Arika,

Thank you for registering an interest in the Moss Vale project. Please find attached the stage 2 and stage 3 consultation documents including project information and project methodology. If you have any comments on the project methodology please send them through in writing or by phone by 5 pm 16 November 2018.

Let me know if you have any questions.

Kind regards,

Mat

Mathew Smith
Archaeologist
M: 0409 991 176
D: (02) 4201 1090
E: msmith@biosis.com.au



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Mathew Smith

From: Troy Tungai <Troytungai72@outlook.com>
Sent: Saturday, 27 October 2018 6:19 PM
To: Mathew Smith
Subject: Re: 28011 Stage 2 and stage 3 consultation Moss Vale

Hi matt thanks for your email.yes i have read the methodology .its sound good.i have no problems with it thanks troy tungai
Sent from Outlook

From: Mathew Smith
Sent: Friday, 19 October 2018 4:26:17 PM
To: 'troytungai72@outlook.com'
Subject: 28011 Stage 2 and stage 3 consultation Moss Vale

Hi Troy,
Thank you for registering an interest in the Moss Vale project. Please find attached the stage 2 and stage 3 consultation documents including project information and project methodology. If you have any comments on the project methodology please send them through in writing or by phone by 5 pm 16 November 2018.
Let me know if you have any questions.
Kind regards,
Mat

Mathew Smith
Archaeologist
M: 0409 991 176
D: (02) 4201 1090
E: msmith@biosis.com.au



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Mathew Smith

From: Richard Campbell <Richardcampbell123@outlook.com>
Sent: Friday, 19 October 2018 4:38 PM
To: Mathew Smith
Subject: Re: 28011 Stage 2 and stage 3 consultation Moss Vale

Hi Matt thanks for report n update may I have guunamaa down for test escalations please

Kind regards

Richard

Sent from my iPad

On 19 Oct 2018, at 4:24 pm, Mathew Smith <MSmith@biosis.com.au> wrote:

Hi Richard,

Thank you for registering an interest in the Moss Vale project. Please find attached the stage 2 and stage 3 consultation documents including project information and project methodology. If you have any comments on the project methodology please send them through in writing or by phone by 5 pm 16 November 2018.

Let me know if you have any questions.

Kind regards,

Mat

Mathew Smith

Archaeologist

M: 0409 991 176

D: (02) 4201 1090

E: msmith@biosis.com.au

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14 June 2019

Rose O'Sullivan
Archaeologist
Office of Environment and Heritage

Dear Rose,

RE: Moss Vale: Notification under the Code of Practice
Our Ref: Matter 28011

Please find the details of the test excavation below:

Location: Lot 3 DP 706194, and Lot 12 DP 866036, Moss Vale, NSW
Legal entity: Aoyuan International
Project manager: Mathew Smith, Project Archaeologist, Biosis Pty Ltd. Phone: 0409 991 176
Dates: 1 July 2019 to 8 July 2019

Test excavation methodology

Biosis Pty Ltd recently completed an archaeological survey of the study area for Aboriginal archaeological heritage for the proposed works. Biosis identified two existing sites with areas of high potential and two areas of moderate potential on crest landforms within the study area. The two existing sites consisted of Chelsea Gardens Locale 1, an artefact scatter that was eroding out of a silage pit, and Chelsea Gardens Locale 2, an artefact scatter located eroding out of a small knoll. The proposed development will impact on these areas of potential, and as such further assessment would be required in the form of subsurface test excavations and an application for an Aboriginal Heritage Impact Permit (AHIP). The proposed methodology is detailed below for these test excavations.

Aims of the sub-surface test excavations

The principle objectives of the subsurface test excavations would be to identify and understand the nature, extent and significance of any archaeological sites and areas of archaeological potential located in the study area.

The aims of the testing program would be to:

- Determine whether sub-surface archaeological deposits exist which may be impacted by the development.
- To determine the extent and nature of such deposits (if present).
- Identify if the archaeological material occurs in an intact, undisturbed context, by examining the soil profile and stratigraphy.

- Analyse and interpret any archaeological finds (such as stone artefacts, shell midden deposits, etc.) recovered during the testing program.
- Inform current knowledge of Aboriginal occupation and land use models of the region.
- Provide management and mitigation measures for Aboriginal archaeological objects located during the subsurface testing program.

Test excavation sampling strategy

Test excavations across the study area would conform to the following methodology:

- Test excavations will be undertaken in each area of archaeological potential with no more than 0.5% of each area being excavated.
- Test excavations will be conducted in 50 x 50 centimetre units.
- The test excavation units will be excavated by hand (inclusive of trowels, spades and other hand tools) in transects at regular intervals.
- The first test pit within a site or Potential Archaeological Deposit (PAD) area will be excavated in five centimetre spits; the subsequent test pits conducted within the site or PAD area can then be excavated in either 10 centimetre spits or stratigraphic units (whichever is smaller) to the base of Aboriginal object-bearing units being the removal of the A-horizon soil deposit down to the sterile clay or bedrock layer (B-horizon).
- If the depth of deposit prevents reaching sterile deposits within the 50 x 50 centimetre test pit, additional 50 x 50 centimetre test pits may be excavated adjacent to the original test pit (for example expanding the test pit to 50 x 100 centimetres) to reach the sterile deposits.
- Test pits may be combined and excavated as necessary in 50 x 50 centimetre units for the purposes of further understanding site characteristics. Note that under the Code, the maximum area that can be excavated in any one continuous area is three metres squared (3 m²).
- All excavated soil will be sieved in 5mm sieves. Dry sieving will be attempted in the first instance, however wet sieving may be used if deposits cannot be dry sieved.
- All cultural material will be collected, bagged and clearly labelled. They will be temporarily stored in the Biosis office for analysis (at 30 Wentworth Street, Port Kembla).
- The following documentation will be taken for the test pit:
 - unique test pit identification number
 - GPS coordinate
 - munsell soil colour, texture and pH
 - amount and location of cultural material within the deposit
 - nature of disturbance where present

- stratigraphy
 - archaeological features (if present)
 - photographic records
 - spit records.
- The test excavation unit must be backfilled as soon as practicable due to safety issues.
 - An AHIMS Site Impact Recording form will be completed and submitted to the AHIMS Registrar for any sites impacted during test excavations.
 - In the event that suspected human remains are identified works will immediately cease and the NSW Police and OEH will be notified.
 - Test excavations will cease when enough information* has been recovered to adequately characterise the objects present with regard to their nature and significance.

*Enough information is defined by OEH as meaning "the sample of excavated material clearly and self-evidently demonstrates the deposit's nature and significance. This may include things like locally or regionally high object density: presence of rare or representative objects: presence of archaeological features: or locally or regionally significant deposits stratified or not." (DECCW 2010b).

Storage of cultural material

Any cultural material identified during test excavations will be temporarily stored in the Biosis, Wollongong office for analysis (30 Wentworth Street, Port Kembla).

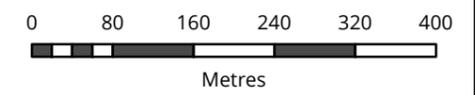
Once the cultural material has been analysed, the cultural material can be managed in the following manners:

- Cultural material can be held by the Aboriginal community under a care and control agreement.
- Cultural material can be returned to country and reburied as soon as practicable in a secure location in accordance with Requirements 16b and 26 of the Code of Practice.



- Legend**
- Study area
 - Survey tracks
- Survey results**
- Artefact sites with high potential
 - Moderate Potential

Figure 6: Survey results



Scale: 1:7,000 @ A3
 Coordinate System: GDA 1994 NSW Lambert



Biosis Pty Ltd
 Albury, Ballarat, Melbourne,
 Newcastle, Sydney, Wangaratta & Wollongong

Matter: 28011
 Date: 09 October 2018,
 Checked by: MJS, Drawn by: JSP, Last edited by: lwilson
 Location: P:\28000s\28011\mapping\28011_F6_SurveyResults

Mathew Smith

From: Mathew Smith
Sent: Tuesday, 21 May 2019 10:25 AM
To: 'lee field'
Subject: 28011 Moss Vale project update

Hi,

Just updating you that the Moss Vale ACHA is currently on hold and we will keep you informed of any further changes.

Kind regards,
Mat

Mathew Smith

Project Archaeologist

M: 0409 991 176

D: (02) 4201 1064

E: msmith@biosis.com.au



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Mathew Smith

From: Mathew Smith
Sent: Tuesday, 21 May 2019 10:24 AM
To: 'arika jalomaki'
Subject: 28011 Moss Vale project update

Hi,

Just updating you that the Moss Vale ACHA is currently on hold and we will keep you informed of any further changes.

Kind regards,
Mat

Mathew Smith

Project Archaeologist

M: 0409 991 176

D: (02) 4201 1064

E: msmith@biosis.com.au



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Mathew Smith

From: Mathew Smith
Sent: Tuesday, 21 May 2019 10:24 AM
To: 'Bo Field'
Subject: 28011 Moss Vale project update

Hi,

Just updating you that the Moss Vale ACHA is currently on hold and we will keep you informed of any further changes.

Kind regards,
Mat

Mathew Smith

Project Archaeologist

M: 0409 991 176

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E: msmith@biosis.com.au



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Mathew Smith

From: Mathew Smith
Sent: Tuesday, 21 May 2019 10:24 AM
To: 'Duncan Falk'
Subject: 28011 Moss Vale project update

Hi,

Just updating you that the Moss Vale ACHA is currently on hold and we will keep you informed of any further changes.

Kind regards,
Mat

Mathew Smith

Project Archaeologist

M: 0409 991 176

D: (02) 4201 1064

E: msmith@biosis.com.au



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Mathew Smith

From: Mathew Smith
Sent: Tuesday, 21 May 2019 10:22 AM
To: 'Glenda Chalker'
Subject: 28011 Moss Vale project update

Hi,

Just updating you that the Moss Vale ACHA is currently on hold and we will keep you informed of any further changes.

Kind regards,
Mat

Mathew Smith

Project Archaeologist

M: 0409 991 176

D: (02) 4201 1064

E: msmith@biosis.com.au



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Mathew Smith

From: Mathew Smith
Sent: Tuesday, 21 May 2019 10:24 AM
To: 'Kayla_87_@hotmail.com'
Subject: 28011 Moss Vale project update

Hi,

Just updating you that the Moss Vale ACHA is currently on hold and we will keep you informed of any further changes.

Kind regards,
Mat

Mathew Smith

Project Archaeologist

M: 0409 991 176

D: (02) 4201 1064

E: msmith@biosis.com.au



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Mathew Smith

From: Mathew Smith
Sent: Tuesday, 21 May 2019 10:23 AM
To: 'Leanne Tungai'
Subject: 28011 Moss Vale project update

Hi,

Just updating you that the Moss Vale ACHA is currently on hold and we will keep you informed of any further changes.

Kind regards,
Mat

Mathew Smith

Project Archaeologist

M: 0409 991 176

D: (02) 4201 1064

E: msmith@biosis.com.au



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Mathew Smith

From: Mathew Smith
Sent: Tuesday, 21 May 2019 10:21 AM
To: 'Troy Tungai'
Subject: 28011 Moss Vale project update

Hi,

Just updating you that the Moss Vale ACHA is currently on hold and we will keep you informed of any further changes.

Kind regards,
Mat

Mathew Smith

Project Archaeologist

M: 0409 991 176

D: (02) 4201 1064

E: msmith@biosis.com.au



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Mathew Smith

From: Mathew Smith
Sent: Tuesday, 21 May 2019 10:21 AM
To: 'James Davis'
Subject: 28011 Moss Vale project update

Hi,

Just updating you that the Moss Vale ACHA is currently on hold and we will keep you informed of any further changes.

Kind regards,
Mat

Mathew Smith

Project Archaeologist

M: 0409 991 176

D: (02) 4201 1064

E: msmith@biosis.com.au



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Mathew Smith

From: Mathew Smith
Sent: Tuesday, 21 May 2019 10:20 AM
To: 'Richard Campbell'
Subject: 28011 Moss Vale project update

Hi,

Just updating you that the Moss Vale ACHA is currently on hold and we will keep you informed of any further changes.

Kind regards,
Mat

Mathew Smith

Project Archaeologist

M: 0409 991 176

D: (02) 4201 1064

E: msmith@biosis.com.au



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Mathew Smith

From: Mathew Smith
Sent: Tuesday, 21 May 2019 10:25 AM
To: 'Paul Knight'
Subject: 28011 Moss Vale project update

Hi,

Just updating you that the Moss Vale ACHA is currently on hold and we will keep you informed of any further changes.

Kind regards,
Mat

Mathew Smith

Project Archaeologist

M: 0409 991 176

D: (02) 4201 1064

E: msmith@biosis.com.au



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Appendix 5 Stage 4: Review of draft cultural heritage assessment report

Mathew Smith

From: Mathew Smith
Sent: Friday, 19 October 2018 4:35 PM
To: 'Kayla Williamson'
Subject: 28011 Stage 2 and stage 3 consultation Moss Vale
Attachments: 28011.Stage2 and stage 3.20181019.1106.pdf

Hi Kayla and Paul,

Thank you for registering an interest in the Moss Vale project. Please find attached the stage 2 and stage 3 consultation documents including project information and project methodology. If you have any comments on the project methodology please send them through in writing or by phone by 5 pm 16 November 2018. Let me know if you have any questions.

Kind regards,
Mat

Mathew Smith
Archaeologist
M: 0409 991 176
D: (02) 4201 1090
E: msmith@biosis.com.au



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Mathew Smith

From: Matthew Tetlaw
Sent: Tuesday, 12 November 2019 11:06 AM
To: 'ceo@ilalc.org.au'
Cc: Mathew Smith; 'angela.villate@aoyuangroup.com'
Subject: Re: 28907 Stage 4 Moss Vale draft ACHA and AR

Dear Paul,

Thank you for registering for the Moss Vale project and for participating in fieldwork.

This analysis of this work has been complete and we invite you to please provide feedback on the draft Aboriginal Cultural Heritage Assessment (ACHA) and Archaeological Report (AR).

Please follow the link below to access the reports:

<https://spaces.hightail.com/receive/Hzyadt1IV>

Please send all comments and feedback to either myself or Mathew Smith (email: msmith@biosis.com.au)

Kind regards,

Matthew

Matthew Tetlaw
Research Assistant - Heritage
D: (02) 4201 1062
E: MTetlaw@biosis.com.au



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Mathew Smith

From: Matthew Tetlaw
Sent: Tuesday, 12 November 2019 11:05 AM
To: 'yurrandaali_cs@hotmail.com'
Cc: Mathew Smith; 'angela.villate@aoyuangroup.com'
Subject: Re: 28907 Stage 4 Moss Vale draft ACHA and AR

Dear Bo,

Thank you for registering for the Moss Vale project and for participating in fieldwork.

This analysis of this work has been complete and we invite you to please provide feedback on the draft Aboriginal Cultural Heritage Assessment (ACHA) and Archaeological Report (AR).

Please follow the link below to access the reports:

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E: MTetlaw@biosis.com.au



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Mathew Smith

From: Matthew Tetlaw
Sent: Tuesday, 12 November 2019 11:05 AM
To: 'DuncanFalk@hotmail.com'
Cc: Mathew Smith; 'angela.villate@aoyuangroup.com'
Subject: Re: 28907 Stage 4 Moss Vale draft ACHA and AR

Dear Duncan,

Thank you for registering for the Moss Vale project and for participating in fieldwork.

This analysis of this work has been complete and we invite you to please provide feedback on the draft Aboriginal Cultural Heritage Assessment (ACHA) and Archaeological Report (AR).

Please follow the link below to access the reports:

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Please send all comments and feedback to either myself or Mathew Smith (email: msmith@biosis.com.au)

Kind regards,

Matthew

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Research Assistant - Heritage
D: (02) 4201 1062
E: MTetlaw@biosis.com.au



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Mathew Smith

From: Matthew Tetlaw
Sent: Tuesday, 12 November 2019 11:03 AM
To: 'kayla_87_@hotmail.com'
Cc: Mathew Smith; 'angela.villate@aoyuangroup.com'
Subject: Re: 28907 Stage 4 Moss Vale draft ACHA and AR

Dear Kayla,

Thank you for registering for the Moss Vale project and for participating in fieldwork.

This analysis of this work has been complete and we invite you to please provide feedback on the draft Aboriginal Cultural Heritage Assessment (ACHA) and Archaeological Report (AR).

Please follow the link below to access the reports:

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Kind regards,

Mathew

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E: MTetlaw@biosis.com.au



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Mathew Smith

From: Matthew Tetlaw
Sent: Tuesday, 12 November 2019 11:02 AM
To: 'jvdcorp@hotmail.com'
Cc: Mathew Smith; 'angela.villate@aoyuangroup.com'
Subject: Re: 28907 Stage 4 Moss Vale draft ACHA and AR

Dear Leanne,

Thank you for registering for the Moss Vale project and for participating in fieldwork.

This analysis of this work has been complete and we invite you to please provide feedback on the draft Aboriginal Cultural Heritage Assessment (ACHA) and Archaeological Report (AR).

Please follow the link below to access the reports:

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Please send all comments and feedback to either myself or Mathew Smith (email: msmith@biosis.com.au)

Kind regards,

Matthew

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D: (02) 4201 1062
E: MTetlaw@biosis.com.au



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Mathew Smith

From: Matthew Tetlaw
Sent: Tuesday, 12 November 2019 11:01 AM
To: 'kgchalker@bigpond.com'
Cc: Mathew Smith; 'angela.villate@aoyuangroup.com'
Subject: Re: 28907 Stage 4 Moss Vale draft ACHA and AR

Dear Glenda,

Thank you for registering for the Moss Vale project and for participating in fieldwork.

This analysis of this work has been complete and we invite you to please provide feedback on the draft Aboriginal Cultural Heritage Assessment (ACHA) and Archaeological Report (AR).

Please follow the link below to access the reports:

<https://spaces.hightail.com/receive/Hzyadtc1IV>

Please send all comments and feedback to either myself or Mathew Smith (email: msmith@biosis.com.au)

Kind regards,

Matthew

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Research Assistant - Heritage
D: (02) 4201 1062
E: MTetlaw@biosis.com.au



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Mathew Smith

From: Matthew Tetlaw
Sent: Tuesday, 12 November 2019 11:00 AM
To: 'Troytungai72@outlook.com'
Cc: Mathew Smith; 'angela.villate@aoyuangroup.com'
Subject: Re: 28907 Stage 4 Moss Vale draft ACHA and AR

Dear Troy,

Thank you for registering for the Moss Vale project and for participating in fieldwork.

This analysis of this work has been complete and we invite you to please provide feedback on the draft Aboriginal Cultural Heritage Assessment (ACHA) and Archaeological Report (AR).

Please follow the link below to access the reports:

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Kind regards,

Mathew

Matthew Tetlaw
Research Assistant - Heritage
D: (02) 4201 1062
E: MTetlaw@biosis.com.au



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Mathew Smith

From: Matthew Tetlaw
Sent: Tuesday, 12 November 2019 10:59 AM
To: 'jvdcorp@hotmail.com'
Cc: Mathew Smith; 'angela.villate@aoyuangroup.com'
Subject: Re: 28907 Stage 4 Moss Vale draft ACHA and AR

Dear James,

Thank you for registering for the Moss Vale project and for participating in fieldwork.

This analysis of this work has been complete and we invite you to please provide feedback on the draft Aboriginal Cultural Heritage Assessment (ACHA) and Archaeological Report (AR).

Please follow the link below to access the reports:

<https://spaces.hightail.com/receive/Hzyadt1IV>

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E: MTetlaw@biosis.com.au



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Mathew Smith

From: Matthew Tetlaw
Sent: Tuesday, 12 November 2019 10:58 AM
To: 'richardcampbell123@outlook.com'
Cc: Mathew Smith; 'angela.villate@aoyuangroup.com'
Subject: Re: 28907 Stage 4 Moss Vale draft ACHA and AR

Dear Richard,

Thank you for registering for the Moss Vale project and for participating in fieldwork.

This analysis of this work has been complete and we invite you to please provide feedback on the draft Aboriginal Cultural Heritage Assessment (ACHA) and Archaeological Report (AR).

Please follow the link below to access the reports:

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Please send all comments and feedback to either myself or Mathew Smith (email: msmith@biosis.com.au)

Kind regards,

Mathew

Matthew Tetlaw
Research Assistant - Heritage
D: (02) 4201 1062
E: MTetlaw@biosis.com.au



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Mathew Smith

From: Matthew Tetlaw
Sent: Tuesday, 12 November 2019 11:07 AM
To: 'barrabyculturalservices@gmail.com'
Cc: Mathew Smith; 'angela.villate@aoyuangroup.com'
Subject: Re: 28907 Stage 4 Moss Vale draft ACHA and AR

Dear Lee,

Thank you for registering for the Moss Vale project and for participating in fieldwork.

This analysis of this work has been complete and we invite you to please provide feedback on the draft Aboriginal Cultural Heritage Assessment (ACHA) and Archaeological Report (AR).

Please follow the link below to access the reports:

<https://spaces.hightail.com/receive/Hzyadtc1IV>

Please send all comments and feedback to either myself or Mathew Smith (email: msmith@biosis.com.au)

Kind regards,

Matthew

Matthew Tetlaw
Research Assistant - Heritage
D: (02) 4201 1062
E: MTetlaw@biosis.com.au



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Mathew Smith

From: Matthew Tetlaw
Sent: Thursday, 28 November 2019 10:09 AM
To: 'Troytungai72@outlook.com'
Cc: Mathew Smith; 'angela.villate@aoyuangroup.com'
Subject: RE: 28907 Stage 4 Moss Vale draft ACHA and AR

Hi Troy,

I was just wondering if you have had a chance to read the report and if so, whether you have any comments towards them.

The consultation deadline does not close until the **10th of December** but we were hoping to get some initial comments regarding the reports.

Thank you for your time,

Matthew

From: Matthew Tetlaw
Sent: Tuesday, 12 November 2019 11:00 AM
To: 'Troytungai72@outlook.com'
Cc: Mathew Smith ; 'angela.villate@aoyuangroup.com'
Subject: Re: 28907 Stage 4 Moss Vale draft ACHA and AR

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Matthew Tetlaw

Research Assistant - Heritage

D: (02) 4201 1062

E: MTetlaw@biosis.com.au



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Mathew Smith

From: Matthew Tetlaw
Sent: Thursday, 28 November 2019 10:07 AM
To: 'jvdcorp@hotmail.com'
Cc: Mathew Smith; 'angela.villate@aoyuangroup.com'
Subject: RE: 28907 Stage 4 Moss Vale draft ACHA and AR

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Sent: Tuesday, 12 November 2019 10:59 AM
To: 'jvdcorp@hotmail.com'
Cc: Mathew Smith ; 'angela.villate@aoyuangroup.com'
Subject: Re: 28907 Stage 4 Moss Vale draft ACHA and AR

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Please send all comments and feedback to either myself or Mathew Smith (email: msmith@biosis.com.au)

Kind regards,

Matthew

Matthew Tetlaw

Research Assistant - Heritage

D: (02) 4201 1062

E: MTetlaw@biosis.com.au



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Mathew Smith

From: Matthew Tetlaw
Sent: Thursday, 28 November 2019 10:11 AM
To: 'barrabyculturalservices@gmail.com'
Cc: Mathew Smith; 'angela.villate@aoyuangroup.com'
Subject: RE: 28907 Stage 4 Moss Vale draft ACHA and AR

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I was just wondering if you have had a chance to read the report and if so, whether you have any comments towards them.

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Thank you for your time,

Matthew

From: Matthew Tetlaw
Sent: Tuesday, 12 November 2019 11:07 AM
To: 'barrabyculturalservices@gmail.com'
Cc: Mathew Smith ; 'angela.villate@aoyuangroup.com'
Subject: Re: 28907 Stage 4 Moss Vale draft ACHA and AR

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Please send all comments and feedback to either myself or Mathew Smith (email: msmith@biosis.com.au)

Kind regards,

Matthew

Matthew Tetlaw

Research Assistant - Heritage

D: (02) 4201 1062

E: MTetlaw@biosis.com.au



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Mathew Smith

From: Matthew Tetlaw
Sent: Thursday, 28 November 2019 10:11 AM
To: 'yulayculturalservices@gmail.com'
Cc: Mathew Smith; 'angela.villate@aoyuangroup.com'
Subject: RE: 28907 Stage 4 Moss Vale draft ACHA and AR

Hi Arika,

I was just wondering if you have had a chance to read the report and if so, whether you have any comments towards them.

The consultation deadline does not close until the **10th of December** but we were hoping to get some initial comments regarding the reports.

Thank you for your time,

Matthew

From: Matthew Tetlaw
Sent: Tuesday, 12 November 2019 11:06 AM
To: 'yulayculturalservices@gmail.com'
Cc: Mathew Smith ; 'angela.villate@aoyuangroup.com'
Subject: Re: 28907 Stage 4 Moss Vale draft ACHA and AR

Dear Arika,

Thank you for registering for the Moss Vale project and for participating in fieldwork.

This analysis of this work has been complete and we invite you to please provide feedback on the draft Aboriginal Cultural Heritage Assessment (ACHA) and Archaeological Report (AR).

Please follow the link below to access the reports:

<https://spaces.hightail.com/receive/Hzyadtc1IV>

Please send all comments and feedback to either myself or Mathew Smith (email: msmith@biosis.com.au)

Kind regards,

Matthew

Matthew Tetlaw

Research Assistant - Heritage

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Mathew Smith

From: Matthew Tetlaw
Sent: Thursday, 28 November 2019 10:10 AM
To: 'yurrandaali_cs@hotmail.com'
Cc: Mathew Smith; 'angela.villate@aoyuangroup.com'
Subject: RE: 28907 Stage 4 Moss Vale draft ACHA and AR

Hi Bo,

I was just wondering if you have had a chance to read the report and if so, whether you have any comments towards them.

The consultation deadline does not close until the **10th of December** but we were hoping to get some initial comments regarding the reports.

Thank you for your time,

Matthew

From: Matthew Tetlaw
Sent: Tuesday, 12 November 2019 11:05 AM
To: 'yurrandaali_cs@hotmail.com'
Cc: Mathew Smith ; 'angela.villate@aoyuangroup.com'
Subject: Re: 28907 Stage 4 Moss Vale draft ACHA and AR

Dear Bo,

Thank you for registering for the Moss Vale project and for participating in fieldwork.

This analysis of this work has been complete and we invite you to please provide feedback on the draft Aboriginal Cultural Heritage Assessment (ACHA) and Archaeological Report (AR).

Please follow the link below to access the reports:

<https://spaces.hightail.com/receive/Hzyadtc1IV>

Please send all comments and feedback to either myself or Mathew Smith (email: msmith@biosis.com.au)

Kind regards,

Matthew

Matthew Tetlaw

Research Assistant - Heritage

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Mathew Smith

From: Matthew Tetlaw
Sent: Thursday, 28 November 2019 10:10 AM
To: 'jvdcorp@hotmail.com'
Cc: Mathew Smith; 'angela.villate@aoyuangroup.com'
Subject: RE: 28907 Stage 4 Moss Vale draft ACHA and AR

Hi Leanne,

I was just wondering if you have had a chance to read the report and if so, whether you have any comments towards them.

The consultation deadline does not close until the **10th of December** but we were hoping to get some initial comments regarding the reports.

Thank you for your time,

Matthew

From: Matthew Tetlaw
Sent: Tuesday, 12 November 2019 11:02 AM
To: 'jvdcorp@hotmail.com'
Cc: Mathew Smith ; 'angela.villate@aoyuangroup.com'
Subject: Re: 28907 Stage 4 Moss Vale draft ACHA and AR

Dear Leanne,

Thank you for registering for the Moss Vale project and for participating in fieldwork.

This analysis of this work has been complete and we invite you to please provide feedback on the draft Aboriginal Cultural Heritage Assessment (ACHA) and Archaeological Report (AR).

Please follow the link below to access the reports:

<https://spaces.hightail.com/receive/Hzyadtc1IV>

Please send all comments and feedback to either myself or Mathew Smith (email: msmith@biosis.com.au)

Kind regards,

Matthew

Matthew Tetlaw

Research Assistant - Heritage

D: (02) 4201 1062

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Mathew Smith

From: Matthew Tetlaw
Sent: Thursday, 28 November 2019 10:09 AM
To: 'kgchalker@bigpond.com'
Cc: Mathew Smith; 'angela.villate@aoyuangroup.com'
Subject: RE: 28907 Stage 4 Moss Vale draft ACHA and AR

Hi Glenda,

I was just wondering if you have had a chance to read the report and if so, whether you have any comments towards them.

The consultation deadline does not close until the **10th of December** but we were hoping to get some initial comments regarding the reports.

Thank you for your time,

Matthew

From: Matthew Tetlaw
Sent: Tuesday, 12 November 2019 11:01 AM
To: 'kgchalker@bigpond.com'
Cc: Mathew Smith ; 'angela.villate@aoyuangroup.com'
Subject: Re: 28907 Stage 4 Moss Vale draft ACHA and AR

Dear Glenda,

Thank you for registering for the Moss Vale project and for participating in fieldwork.

This analysis of this work has been complete and we invite you to please provide feedback on the draft Aboriginal Cultural Heritage Assessment (ACHA) and Archaeological Report (AR).

Please follow the link below to access the reports:

<https://spaces.hightail.com/receive/Hzyadtc1IV>

Please send all comments and feedback to either myself or Mathew Smith (email: msmith@biosis.com.au)

Kind regards,

Matthew

Matthew Tetlaw

Research Assistant - Heritage

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Mathew Smith

From: Duncan Falk <DuncanFalk@hotmail.com>
Sent: Saturday, 30 November 2019 6:36 PM
To: Mathew Smith
Subject: 28907 Moss Vale ACHA feedback

Hey Mathew,

I have read over the document and agree with the recommendations for Chelsea Gardens Locale 1 and Chelsea Gardens Locale 3, however not Chelsea Gardens Locale 2 as outlined below.

The main issue with the recommendation regarding AHIMS 52-4-0194/Chelsea Gardens Locale 2 are these two points;

- "conserved as a green space so that cumulative impacts to this site are kept to a minimum and to limit the amount of ground disturbance"
- "no further ground disturbances or physical impacts occur to this area"

The main problem is the wording of the recommendation, saying "cumulative impacts" and "limit the amount", it does not give a sense of certainty that activity that would impact the site will not be conducted within the area. There needs to be written confirmation from the developer that the site will not be impacted at all and a management plan including the implementation of fencing to cordon the area off during development is put in place.

I would strongly suggest a salvage of the site to be conducted as impacts to AHIMS 52-4-0194/Chelsea Gardens Locale 2 are inevitable even with it being placed in the recommendations.

Realistically with the amount of earth moving machines and activity on the site during the different phases of development the probability of an impact occurring is high, and unless the developer is willing to induct every single person who is to work on the site about the cultural sensitivity and nature of the PAD it would be wise to conduct a salvage at the earliest convenience.

Regards,

Duncan

Duncan Falk
Manager

Duncan Falk Consultancy



Duncan Falk Consultancy

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duncanfalk@hotmail.com

Mathew Smith

From: Mathew Smith
Sent: Tuesday, 3 December 2019 10:02 AM
To: 'Duncan Falk'
Subject: RE: 28907 Moss Vale ACHA feedback

Thanks for your feedback Duncan,

I have included your response in the ACHA and have added another recommendation recommending management plan with fencing and a site induction for all workers. I have also added a sentence to recommendation 1 indicating that if impacts occur to the area of highest density in Chelsea Gardens locale 2 then salvage is recommended.

Kind regards,
Mat

Mathew Smith
Project Archaeologist
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D: (02) 4201 1064
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To: Mathew Smith
Subject: 28907 Moss Vale ACHA feedback

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Realistically with the amount of earth moving machines and activity on the site during the different phases of development the probability of an impact occurring is high, and the unless the developer is willing to induct every single person who is to work on the site about the cultural sensitivity and nature of the PAD it would be wise to conduct a salvage at the earliest convenience.

Regards,

Duncan

Duncan Falk

Manager

Duncan Falk Consultancy



Duncan Falk Consultancy

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duncanfalk@hotmail.com

Mathew Smith

From: Richard Campbell <richardcampbell123@outlook.com>
Sent: Tuesday, 12 November 2019 11:44 AM
To: Matthew Tetlaw
Subject: Re: 28907 Stage 4 Moss Vale draft ACHA and AR

Hi i have read the report and what's needed is all aboriginal artefact be reburied when the time is suitable for us to do so other than that i am worried about the grinding grooves which are very old n what will be happening there...

kind regards

Richard

On 12 Nov. 2019 10:57 am, Matthew Tetlaw wrote:

Dear Richard,

Thank you for registering for the Moss Vale project and for participating in fieldwork.

This analysis of this work has been complete and we invite you to please provide feedback on the draft Aboriginal Cultural Heritage Assessment (ACHA) and Archaeological Report (AR).

Please follow the link below to access the reports:

<https://spaces.hightail.com/receive/Hzyadtc11V>

Please send all comments and feedback to either myself or Mathew Smith (email: msmith@biosis.com.au)

Kind regards,

Matthew

Matthew Tetlaw

Research Assistant - Heritage

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Appendix 6 Archaeological report



Lot 3 DP 706194 and Lot 12 DP 866036
Moss Vale NSW:
Archaeological Report

FINAL REPORT

Prepared for Aoyuan International

11 December 2019

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Prepared by: Mathew Smith
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Biosis project no.: 28907

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LGA: Wingecarribee

Document control

Version	Internal reviewer	Date issued
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Glossary

ACHA	Aboriginal Cultural Heritage Assessment
AHIMS	Aboriginal Heritage Information Management System
AHIP	Aboriginal Heritage Impact Permit
CBD	Central Business District
Consultation requirements	<i>Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010</i> (DECCW 2010a)
DA	Development Application
DECCW	Department of Environment, Climate Change and Water (now DPIE)
DP	Deposited Plan
DPIE	Department of Planning, Industry and Environment
EP&A Act	<i>Environmental Planning and Assessment Act 1979</i>
GPS	Global Positioning System
GSV	Ground Surface Visibility
ICOMOS	International Council on Monuments and Sites
ILALC	Illawarra Local Aboriginal Land Council
LEP	Local Environmental Plan
LGA	Local Government Area
MGA	Map Grid of Australia
NPW Act	<i>National Parks and Wildlife Act 1974</i>
NPWS	National Parks and Wildlife Service
NSW	New South Wales
OEH	Office of Environment and Heritage (now DPIE)
PAD	Potential Archaeological Deposit
Study area	Lot 3 DP 706194 and Lot 12 DP 866036
the Code	<i>Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW</i> (DECCW 2010)

Summary

Biosis Pty Ltd (Biosis) was commissioned by Aoyuan International to undertake an Aboriginal Cultural Heritage Assessment (ACHA) for the proposed residential development at Lot 3 DP 706194 and Lot 12 DP 866036, Moss Vale, New South Wales (NSW) (the study area). The study area is located approximately 1.8 kilometres south of Moss Vale and approximately 50 kilometres south west of the Wollongong Central Business District (CBD). It encompasses 128 hectares of private land and is currently zoned RU2 rural landscape.

There are two Aboriginal cultural heritage sites registered on the Aboriginal Heritage Information Management System (AHIMS) register within the study area, and 29 located within 5 kilometres of its vicinity.

Wingecarribee Shire Council is the determining authority (DA) and will assess the ACHA to help them determine if the proposed development is likely to have a significant effect on the environment and Aboriginal cultural heritage values.

The Aboriginal community was consulted regarding the heritage management of the project throughout its lifespan. Consultation has been undertaken as per the process outlined in the Department of Environment Climate Change and Water (DECCW) document, *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010a) (consultation requirements).

The survey was conducted on 12 September 2018. The overall effectiveness of the survey for examining the ground for Aboriginal sites was deemed low. This was attributed to vegetation cover restricting ground surface visibility (GSV) combined with a low amount of exposures.

No previously unrecorded Aboriginal cultural heritage sites were identified during the field investigation; however, the two previously identified sites, AHIMS 52-4-0194/Chelsea Gardens Locale 2, and AHIMS 52-4-0193/Chelsea Gardens Locale 1, were relocated, and three areas of archaeological potential, two of which were associated with AHIMS 52-4-0194/Chelsea Gardens Locale 2, and AHIMS 52-4-0193/Chelsea Gardens Locale 1, were identified. The third area of PAD was located on a hill crest.

Test excavations were undertaken in the study area from the have revealed a varying density of artefacts at AHIMS 52-4-0194/Chelsea Gardens Locale 2, AHIMS 52-4-0193/Chelsea Gardens Locale 1 and AHIMS 52-4-0689/Chelsea Gardens Locale 3. It was found that AHIMS 52-4-0194/Chelsea Gardens Locale 2 contained the highest density of artefacts including tools and cores, suggesting it was the favoured loci for occupation in the study area. AHIMS 52-4-0193/Chelsea Gardens Locale 1 contained a lower density of artefacts and artefact diversity suggesting this site was used as a secondary camp site location, possibly during times of flooding, as the hill crest landform provided greater elevation than the hillock at AHIMS 52-4-0194/Chelsea Gardens Locale 2. AHIMS 52-4-0689/Chelsea Gardens Locale 3 contained the lowest density and most limited diversity of artefacts in the study area. The deposit at this location consisted of background scatter and it is likely artefacts were discarded during travel through the area rather than during periods of short or long term occupation.

There is potential for development activities to impact Aboriginal sites and the identified sites or areas of (archaeological) sensitivity.

Strategies have been developed based on the archaeological significance of cultural heritage relevant to the study area. The strategies also take into consideration:

- Predicted impacts to Aboriginal cultural heritage.
- The planning approvals framework.

- Current best conservation practice, widely considered to include:
 - The ethos of the Australia International Council on Monuments and Sites (ICOMOS) Burra Charter.
 - The *Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW* (DECCW 2010b) (the Code).

The recommendations that resulted from the consultation process are provided below.

Management recommendations

Prior to any development impacts occurring within the study area, the following is recommended:

Recommendation 1: Conservation of Part AHIMS 52-4-0194/Chelsea Gardens Locale 2

AHIMS 52-4-0194/Chelsea Gardens Locale 2 has been identified as having moderate archaeological significance. The archaeological test excavations have identified a medium density partially intact subsurface archaeological deposit within a hillock landform at the confluence of two creeklines. Therefore, it is recommended that this area of medium density deposit be conserved as a green space and no further ground disturbances occur, including landscaping. It is recommended that no go fencing is placed around the portion of AHIMS 52-4-0194/Chelsea Gardens Locale 2 that will not be impacted and construction personnel undergo a site induction to avoid accidental impacts. If impacts to the areas of highest density currently located outside of proposed works are to occur, then a program of salvage excavations is recommended.

Recommendation 2: Application for an Aboriginal Heritage Impact Permit to harm AHIMS 52-4-0193/Chelsea Gardens Locale 1, AHIMS 52-4-0194/Chelsea Gardens Locale 2 and AHIMS 52-4-0689/Chelsea Gardens Locale 3

The proposed works will result in direct impacts, with a total loss of value to AHIMS 52-4-0193/Chelsea Gardens Locale 1 and AHIMS 52-4-0689/Chelsea Garden Locale 3, and partial loss of value to AHIMS 52-4-0194/Chelsea Gardens Locale 2. It is recommended that Aoyuan International apply to the Department of Planning, Industry and Environment (DPIE) for an area wide Aboriginal Heritage Impact Permit (AHIP) covering the entirety of the study area for a term of 20 years. The AHIP should allow for the following:

- Total Impact to the recorded Aboriginal cultural heritage sites AHIMS 52-4-0193/Chelsea Gardens Locale 1 and AHIMS 52-4-0689/Chelsea Garden Locale 3.
- Partial impacts to AHIMS 52-4-0194/Chelsea Gardens Locale 2, avoiding the area of moderate density within this site.
- Impact within the limits of the area wide AHIP for any further Aboriginal objects encountered during construction, unless human remains are identified.

A site impact recording form for registered Aboriginal site AHIMS 52-4-0193/Chelsea Gardens Locale 1, AHIMS 52-4-0194/Chelsea Gardens Locale 2, and AHIMS 52-4-0689/Chelsea Garden Locale 3 should also be completed and submitted to the DPIE following impacts to the site.

For information about AHIPs and their preparation, see below.

Advice preparing AHIPs

An AHIP is required for any activities likely to have an impact on Aboriginal objects or Places or cause land to be disturbed for the purposes of discovering an Aboriginal object. The DPIE issues AHIPs under Part 6 of the *National Parks and Wildlife Act 1974* (NPW Act).

AHIPs should be prepared by a qualified archaeologist and lodged with the DPIE. Once the application is lodged processing time can take between 8-12 weeks. It should be noted that there will be an application fee levied by the DPIE for the processing of AHIPs, which is dependent on the estimated total cost of the development project.

Where there are multiple sites within one study area an application for an AHIP to cover the entire study area is recommended.

Recommendation 3: Establish care and control of Aboriginal objects

All artefacts identified during the test excavations should be reburied in an area adjacent to the study area which will not be impacted by future developments, or given to the Illawarra Local Aboriginal Land Council (ILALC) for safe keeping.

Recommendation 4: Discovery of Aboriginal Ancestral Remains

Aboriginal ancestral remains may be found in a variety of landscapes in NSW, including middens and sandy or soft sedimentary soils. If any suspected human remains are discovered during any activity you must:

1. Immediately cease all work at that location and not further move or disturb the remains.
2. Notify the NSW Police and DPIE's Environmental Line on 131 555 as soon as practicable and provide details of the remains and their location.
3. Not recommence work at that location unless authorised in writing by DPIE.

1 Introduction

1.1 Project background

Biosis Pty Ltd was commissioned by Aoyuan International to undertake an Aboriginal archaeological investigation for the proposed residential development at Lot 3 DP 706194 and Lot 12 DP 866036 Moss Vale, NSW (Figure 1). This assessment will support a development application to Wingecarribee Shire Council for the project.

This investigation has been carried out under Part 6 of the NPW Act. It has been undertaken in accordance with the Code. The Code has been developed to support the process of investigating and assessing Aboriginal cultural heritage by specifying the minimum standards for archaeological investigation undertaken in NSW under the NPW Act. The archaeological investigation must be undertaken in accordance with the requirements of the Code.

It is stated in section 1.2 of the Code that where the ACHA report concludes that the proposed activity will result in harm to Aboriginal objects or declared Aboriginal Places, an application for an AHIP will be required. This application must be supported by an ACHA report.

The *Environmental Planning and Assessment Act 1979* (EP&A Act) includes provisions for local government authorities to consider environmental impacts in land-use planning and decision making. Each Local Government Area (LGA) is required to create and maintain a Local Environmental Plan (LEP) that includes Aboriginal and historical heritage items. Local Councils identify items that are of significance within their LGA, and these items are listed on heritage schedules in the local LEP and are protected under the EP&A Act and *Heritage Act 1977*.

1.2 Study area

The study area is located approximately 1.8 kilometres south of Moss Vale and approximately 50 kilometres south west of the Wollongong CBD (Figure 2). It encompasses 128 hectares of private land (Lot 3 DP 706194 and Lot 12 DP 866036) and is currently zoned RU2 rural landscape. The study area is within the:

- Wingecarribee LGA.
- Parish of Bong Bong.
- County of Camden.

The study area is bounded by Yarrawa Road to the west and south, parklands and residential subdivisions to the north and largely undeveloped pastoral and farming land to the east.

1.3 Planning approvals

The proposed development will be assessed against Part 4 of the EP&A Act. Other relevant legislation and planning instruments that will inform this assessment include:

- NPW Act
- NSW *National Parks and Wildlife Amendment Act 2010*
- Wingecarribee Local Environmental Plan 2010 (LEP)

- Wingecarribee Development Control Plan 2010.

1.4 Objectives of the investigation

The objectives of the investigation can be summarised as follows:

- To identify and consult with any registered Aboriginal stakeholders and the ILALC.
- To conduct additional background research in order to recognise any identifiable trends in site distribution and location.
- To search statutory and non-statutory registers and planning instruments to identify listed Aboriginal cultural heritage sites within the study area.
- To highlight environmental information considered relevant to past Aboriginal occupation of the locality and associated land use and the identification and integrity/preservation of Aboriginal sites.
- To summarise past Aboriginal occupation in the locality of the study area using ethnohistory and the archaeological record.
- To formulate a model to broadly predict the type and character of Aboriginal sites likely to exist throughout the study area, their location, frequency and integrity.
- To conduct a field survey of the study area to locate unrecorded or previously recorded Aboriginal sites and to further assess the archaeological potential of the study area.
- To assess the significance of any known Aboriginal sites in consultation with the Aboriginal community.
- To identify the impacts of the proposed development on any known or potential Aboriginal sites within the study area.
- To recommend strategies for the management of Aboriginal cultural heritage within the context of the proposed development.

1.5 Proposed development

The proposed works within the study area will include:

- The subdivision and development of 1121 lots totalling 125.5 ha of land surface.
- Construction of roads and services.
- Construction of 15 lakes and ponds.
- Construction of recreational facilities including sporting fields.

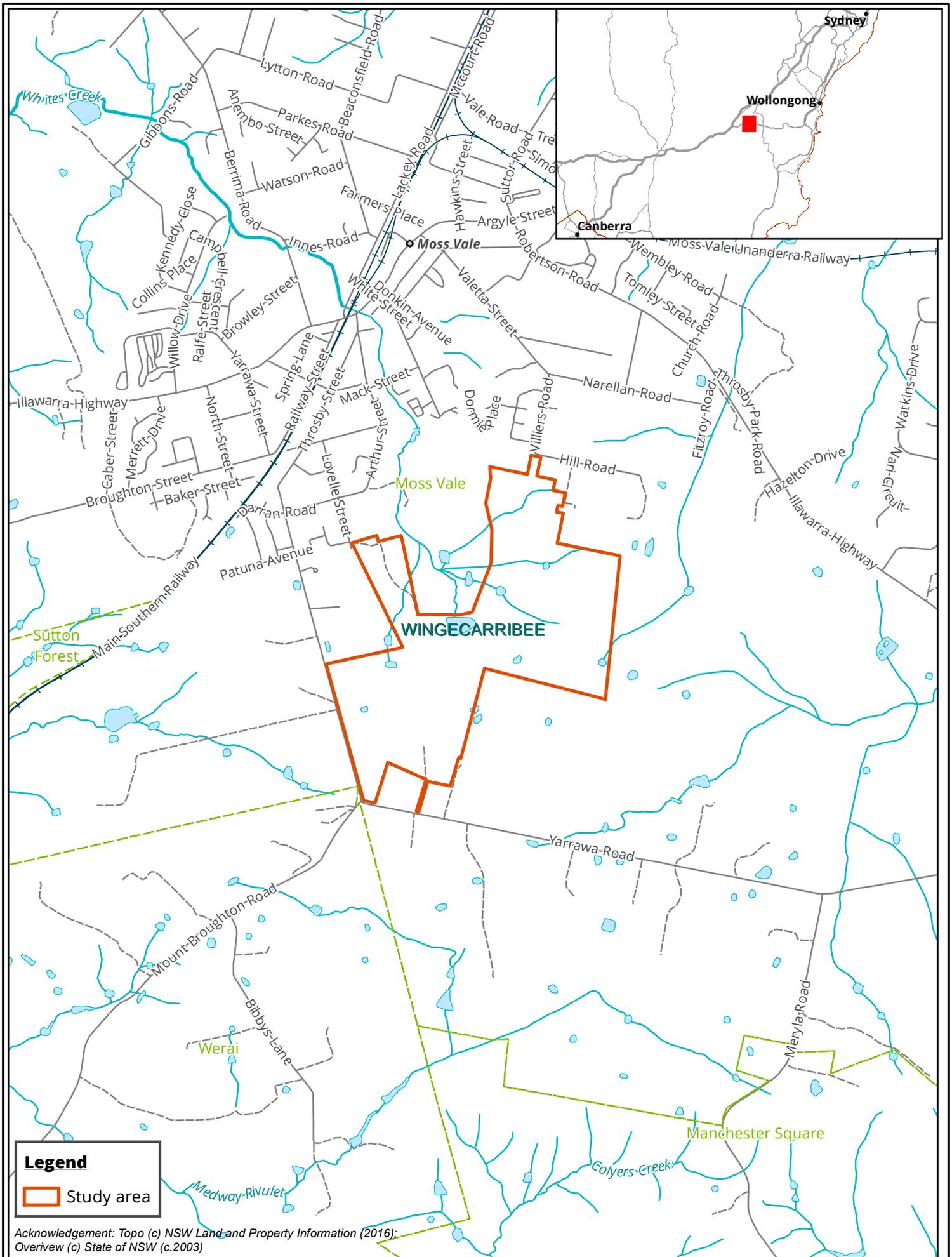
1.6 Investigators and contributors

The roles, previous experience and qualifications of the Biosis project team involved in the preparation of this archaeological report are described below in Table 1.

Table 1 Investigators and contributors

Name and qualifications	Experience summary	Project role
<p>James Cole BA (Hons)</p>	<p>James is an archaeologist with six years' experience. James has had experience working as an archaeologist and project manager on a number of Aboriginal and European heritage projects across New South Wales, Victoria, and Tasmania, and is skilled in both excavation and field recording. James has well developed skills in Aboriginal archaeology, serving as the project lead on a large number of projects in Sydney, the Illawarra, the Hunter Region, and in Western NSW. These projects have seen him take part in Aboriginal consultation, background research, the formation of predictive modelling, fieldwork, and report authorship. He is also skilled in undertaking historical heritage assessments and Statement of Heritage Impact, and is well versed in providing advice relating to statutory obligations under the <i>National Parks and Wildlife Act 1974</i> and the <i>Heritage Act 1977</i>, and in obtaining approvals relating to them.</p>	<ul style="list-style-type: none"> • Quality assurance and technical specialist
<p>Mathew Smith BA, BSc (Hons)</p>	<p>Mathew is an archaeologist with four years of experience in the consulting industry. Mathew has worked on a number of Aboriginal cultural heritage projects across New South Wales (NSW) as an archaeologist and project manager including water infrastructure and linear projects, residential development projects, renewable energy projects. As part of these projects Mathew has interacted with a diverse client base including Local Government, Sydney Water, National Parks and Wildlife Service, Department of Primary Industry and Water, resource companies, architectural firms, engineering firms, and private developers. Mathew has well developed skills in Aboriginal archaeology, serving as a key team member and project manager on a number of projects in Sydney, the Illawarra, the Hunter Region, Far Western and Central NSW. His areas of expertise include, archaeological excavation and survey, artefact analysis, Aboriginal community consultation and technical report writing. Mathew is also accomplished in obtaining approvals under the <i>NSW National Parks and Wildlife Act 1974</i>.</p>	<ul style="list-style-type: none"> • Project manager • Field team • Report author • Consultation
<p>Samantha Keats BA (Hons)</p>	<p>Samantha is an archaeologist with Biosis Wollongong office. Samantha has over three years' experience as an archaeologist, with a particular research focus on rock art assemblages and ochre in the north-west Kimberley region of Australia. Samantha has experience in conducting desktop assessments, archaeological survey and Aboriginal and historical excavation as well as consulting with Traditional Owners. She has participated in a number of European historical excavations and monitoring programs in NSW and</p>	<ul style="list-style-type: none"> • Field team • Field logistics • Report author

Name and qualifications	Experience summary	Project role
	has authored several Statement of Heritage Impact reports and Heritage Assessments.	
Matthew Tetlaw BA (Hons) Archaeology and History	<p>Matthew completed his Bachelor of Arts with honours in 2018 and joined Biosis in their Wollongong office in 2019.</p> <p>During his undergraduate years he participated in historical and Indigenous archaeological assessments in his home state of Western Australia and abroad. Primarily, these have included historical surveys of convict sites, an international excavation in Bulgaria and a desktop rock-art assessment. Matthew developed key archaeological skills while attending a field school in Banya, Bulgaria, where a Bronze-age hillfort was excavated. This research was carried out to determine how such a heavily fortified settlement existed when other comparable settlements were not as secure. Further experience was developed in the completion of his honours degree, where rock-art from South-east Asia and the Kimberley, Western Australia were compared to test for similarity between them. Such experience has coalesced in a competency for report writing, archaeological analysis of historical/Indigenous artefacts as well as survey and excavations skills.</p>	<ul style="list-style-type: none"> • Background research • Field logistics



Legend
 Study area

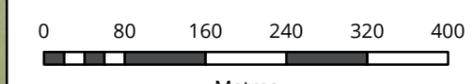
Acknowledgement: Topo (c) NSW Land and Property Information (2016);
 Overview (c) State of NSW (c.2003)

Figure 1 Study area in a regional context



Legend
 Study area

Figure 2 Study area detail



Metres
 Scale: 1:7,000 @ A3
 Coordinate System: GDA 1994 NSW Lambert



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Matter: 28907
 Date: 05 July 2019
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2 Desktop assessment

The desktop assessment involves researching and reviewing existing archaeological studies and reports relevant to the study area and Moss Vale region. This information is combined to develop an Aboriginal site prediction model for the study area, and to identify known Aboriginal sites and/or places recorded in the study area. This desktop assessment has been prepared in accordance with requirements 1 to 4 of the Code.

2.1 Landscape context

It is important to consider the local environment of the study area any heritage assessment. The local environmental characteristics can influence human occupation and associated land use and consequently the distribution and character of cultural material. Environmental characteristics and geomorphological processes can affect the preservation of cultural heritage materials to varying degrees or even destroy them completely. Lastly landscape features can contribute to the cultural significance that places can have for people.

2.1.1 Topography and hydrology

The underlying geology that dictates the existing landscape is the Wianamatta Group, which is comprised of the Bringelly Shales consisting of mid grey and dark grey mudstones with interbedded lithic sandstones as well as finer grained siltstones and claystone (Figure 3). The subdued relief of the Moss Vale Tablelands is the result of the long periods during which sediments laid down in the late Palaeozoic (541-252 million years) and early Mesozoic (252-66 million years) were slowly weathered, eroded and transported away. The local relief of the area is less than 40 metres and the slopes range from between 10-20% with localised steeper slopes of between 20-35%. The crests are broad and convex, and the slopes are moderately inclined with concave drainage lines and minor terracing occurring on steeper slopes (*eSPADE* 2019). Hydrology consists of one ephemeral first order creek with shallow, poorly defined channels that flows towards Whites Creek in the north (Figure 4).

2.1.2 Soil landscapes

Soil landscapes have distinct morphological and topological characteristics that result in specific archaeological potential. They are defined by a combination of soils, topography, vegetation and weathering conditions. Soil landscapes are essentially terrain units that provide a useful way to summarise archaeological potential and exposure.

There are two soil landscapes present within the study area (Figure 5). The Moss Vale Highlands soil landscape occurs over the northern and central portions of the study area and consists of rolling hills and rounded peaks with deep channel incisions on horizontal Triassic aged geology alternating between quartz sandstone and shale. There are widespread yellow and grey texture-contrast soils, deep yellow earths on friable sandstone often with concretionary ironstone and accumulations of quartz sand in valleys (Mitchell 2002, p.117).

The second soil landscape in the study area is the Robertson Basalts which is located in the north east and south west corners of the study area. This landscape is characterised by flat top hills above undulating shale hills of the Moss Vale Highland landscape on tertiary basalt flows. Soils in this landscape consist of red and red-brown structured loams and clay loam with uniform or gradational profiles.

2.1.3 Landscape resources

The Moss Vale Tablelands generally provides a number of resources used by Aboriginal inhabitants. Lithic resources would have been accessible in the outcrops of shale and sandstone of the Wianamatta Group, while the sandstone formations also provided areas where tools might be ground and sharpened and art might be engraved. Alluvial deposits along the banks of the Wingecarribee and Nepean Rivers would also have provided sources of silcrete and quartzite cobbles which would have been used extensively by Aboriginal people.

A number of edible plant species would have been available. The general area includes open forest and open woodland, with riparian vegetation extending along many of the watercourses, such as the Wingecarribee River. Each of these areas would have, and still do, contain a variety of different plants and animals which might have been utilised by Aboriginal people according to seasonal availability.

In addition, many species would have provided many resources in addition to food. For example, animals such as Brush-tailed Possums were highly prized for their fur, with possum skin cloaks recorded by the first settlers in the area. Plant resources were used in a variety of ways. Fibres were twisted into string which was used for a many purposes including the weaving of nets, baskets and fishing lines (Field 1825, p. 467, cited in (Sullivan 1982).

2.1.4 Land use history

The earliest exploration of the Southern Highlands occurred in 1798 when several explorers visited the Wingecarribee River. They were followed by Hamilton Hume and Charles Throsby and in 1817 who explored the area west of Sutton Forest; and then in 1818 they explored the area between Moss Vale and Jervis Bay with James Meehan. In 1819, Thorsby was granted 1000 acres by Governor Macquarie at Bong Bong on the outskirts of Moss Vale and named the property Throsby Park. Governor Macquarie also put Throsby in charge of building the Old Argyle Road from Sydney to Goulburn (NSW Roads and Maritime Services 2013, p.41). Throsby died in 1828, which resulted in his estates and lands passing to his nephew, Charles Throsby Jr. With his uncle, Throsby Jr managed cattle in the region. In 1834 Charles Jr was granted a further 1,000 acres south of Throsby Park.

The establishment of Moss Vale as a township began with the planning of the railway station commencing in 1846. According to the writings of Joseph Lansdowne, by 1853, Moss Vale possessed only five buildings, poorly constructed of 'bricks and slabs'. Outside of these structures the land appeared to contain thick bush and fields of wheat and it appears that the development of Moss Vale was gradual until the construction and completion of this railway line and station in 1867 by engineer John Whitton. Subdivision for the town began around 1864, with developments to the Moss Vale district including the subdivision of several large estates, as well as the inclusion of a general store, postal office and hotel to service the influx of railway workers and their families (L, Emery 2001).

By 1888, further buildings had been erected throughout Moss Vale, with James Cathman constructing a church in the town centre. By 1891, Tudor House was constructed, originally designed by J. Horbury Hunt for use as a country house for Alick Osbourne. Tudor House was later remodelled to accommodate schooling facilities following its move from Sydney in 1901 (JRC Planning Services 1993). Early parish maps dating to 1894 demonstrate the early subdivision plans of the district (Plate 1).

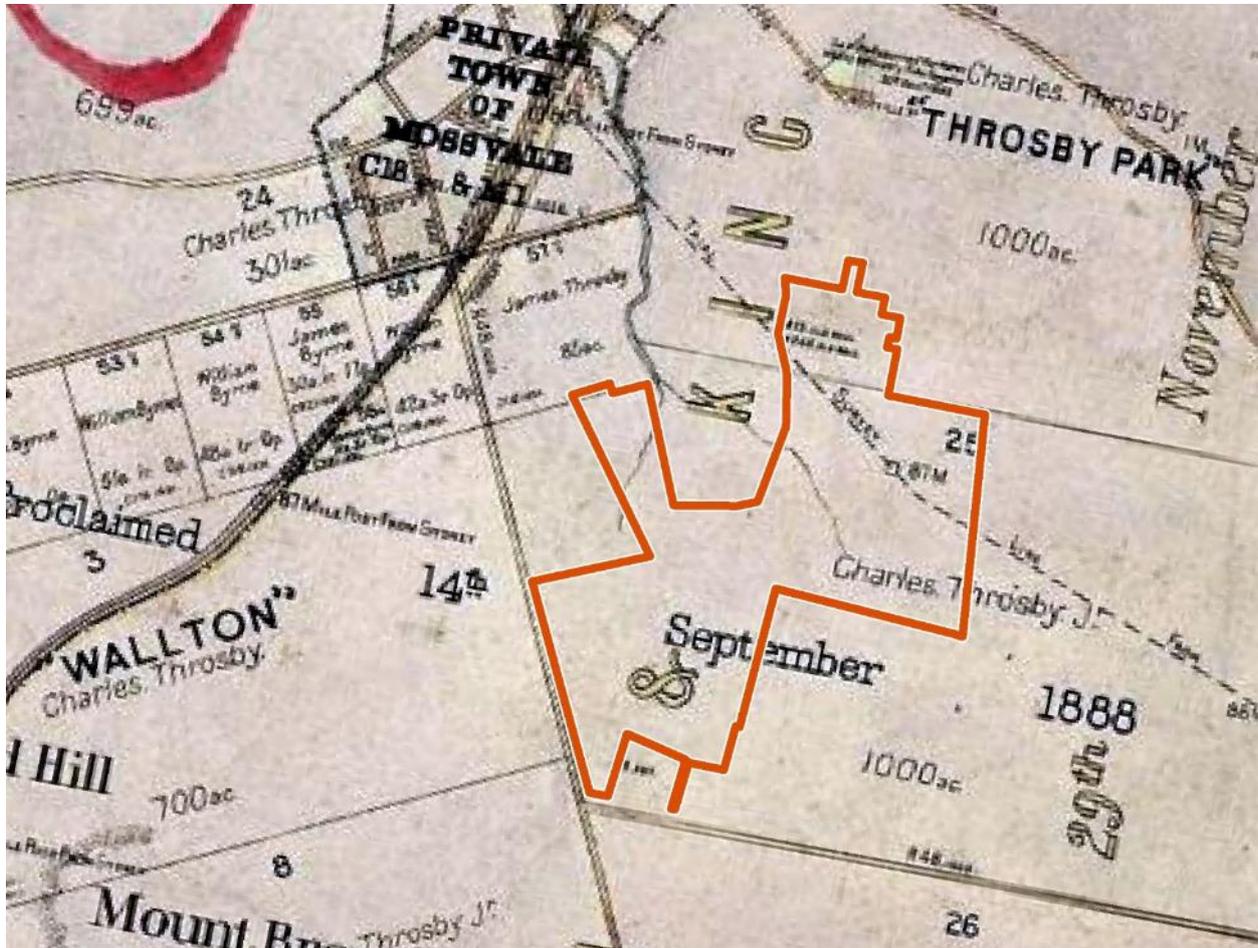


Plate 1 1894 parish map of the parish of Bong Bong, with Moss Vale and Throsby's land grants visible; study area is indicated in red (Source: HLRV 2019)

The northern portion of the study area falls within Throsby Park, with 1894 and 1914 parish maps showing the change in land use and creation of subdivision land grants to the southern portion of Throsby Park (Plate 1 and Plate 2). It also shows the subdivision of James Throsby's lot in 1899, which borders the north west portion of the study area (Plate 2). In 1913, this portion of the study area was transferred to William Oswald Gilchrist and subdivided into a number of separate lots (Plate 2). The lot that would come to contain the current residential dwelling and structures was then owned by Elizabeth Fraser through widow transfer in 1915.

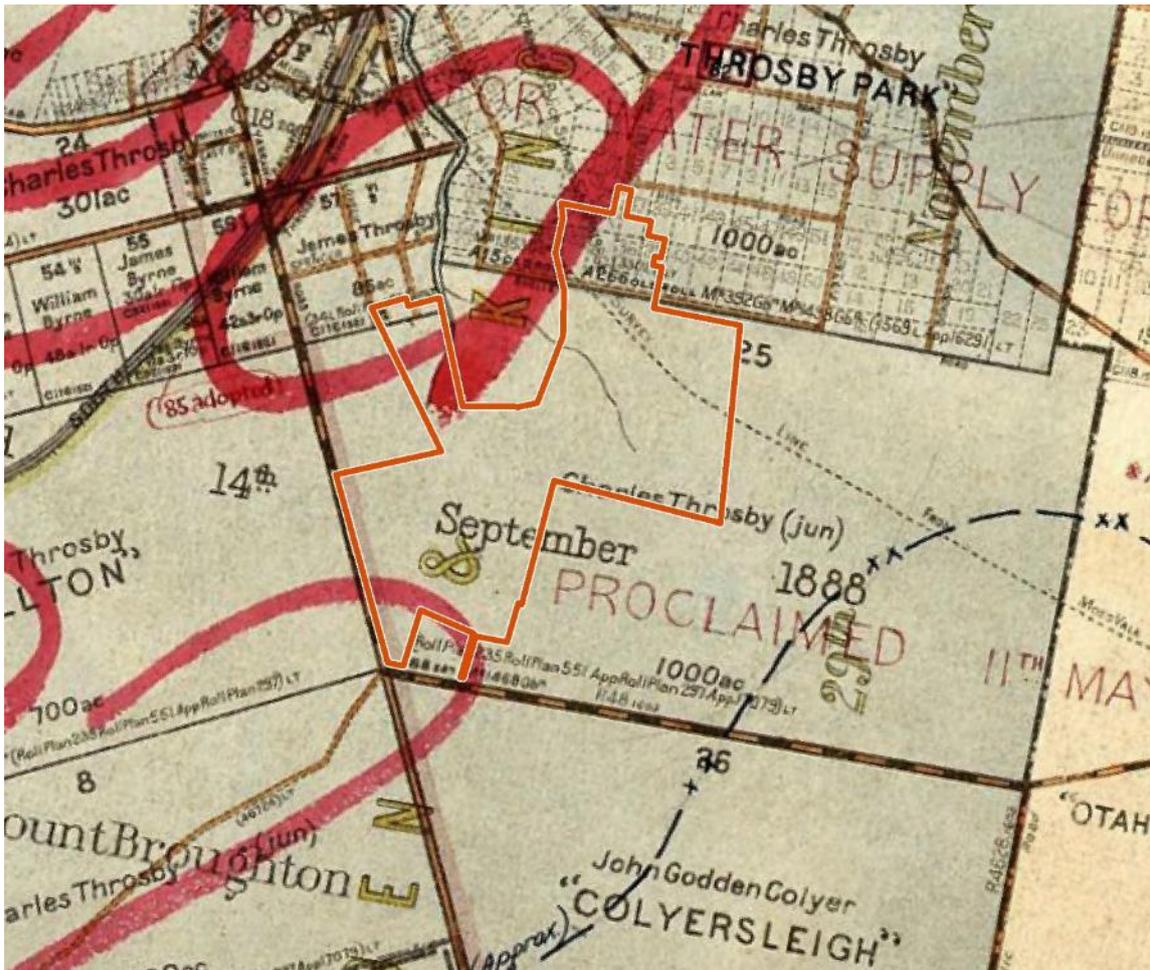


Plate 2 1914 parish map of Moss Vale, with the study area is indicated in red (Source: HLRV 2019)

Elizabeth Fraser was a resident of Moss Vale and resided at Mt Broughton to the south west of the study area until her death in 1928. The land was passed to her son Charles Fraser who was noted as a grazer on the certificate of title. The remaining portion of Charles Throsby Juniors original grant to the south was also transferred from William Oswald Gilchrist to Charles Fraser in 1922, but it wasn't until both parcels of land were acquired by Thomas Henry Wilson, a farmer, in 1927 and 1936 that they were merged into the single estate.

No development in the study area or the subdivisions contained within the study area was observed in the certificates of title or parish maps until the 1942 Moss Vale District parish map (Plate 3), which shows two areas which were acquired for housing purposes, with both locations located to the north of the study area.

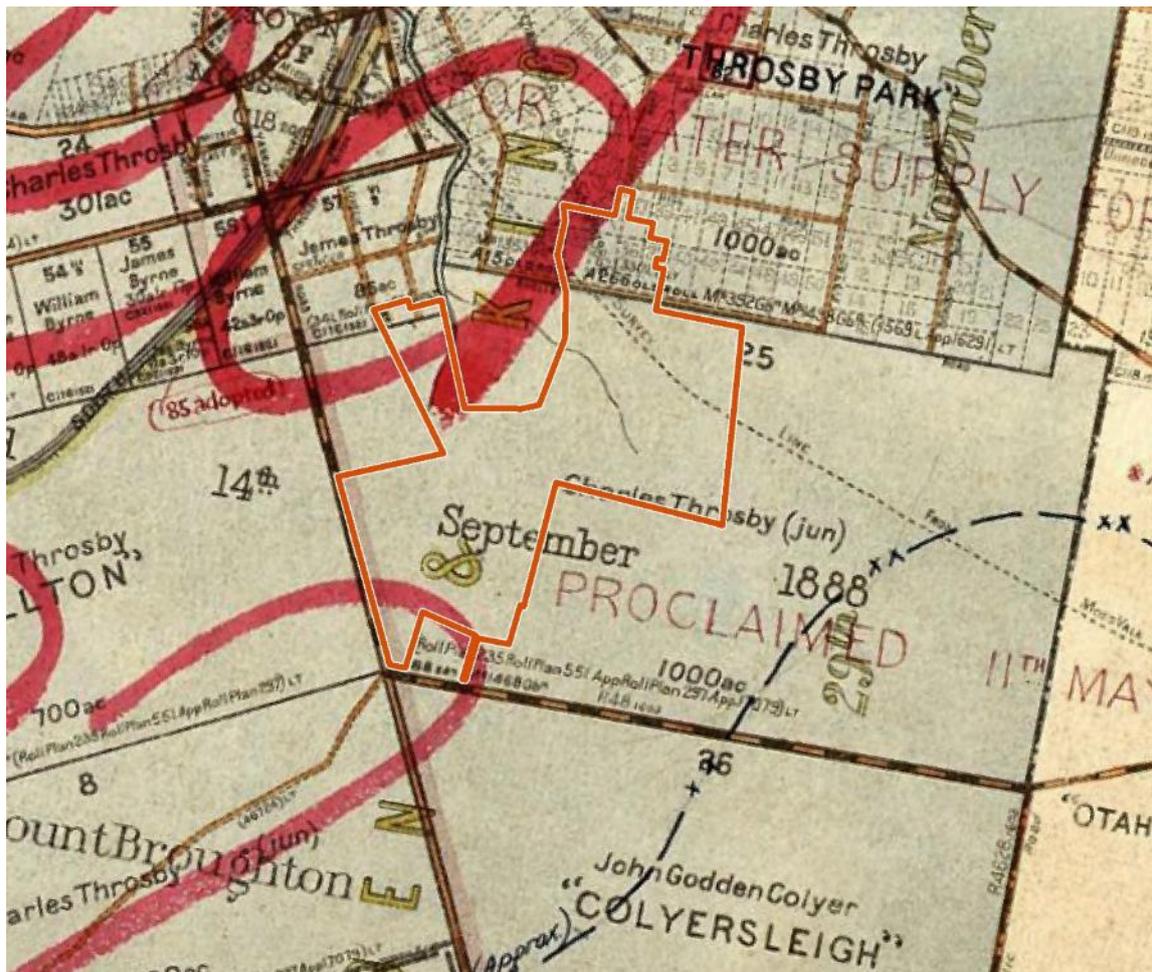


Plate 3 1942 parish map of Moss Vale, with the study area is indicated in red (Source: HLRV 2019)

A review of historical aerals from 1949 to 1997 shows that the study area has evidently undergone extensive clearing prior to 1949 (Plate 4), with small clusters of vegetation remaining throughout the study area. The study area also appears to have been fenced off into paddocks for grazing purposes. A residential dwelling and associated out buildings is located within the northern extent of the study area, abutting a developing residential area directly north. By 1963 (Plate 5) a number of small dams have also been constructed throughout the study area, the largest being located along the northern boundary, and vegetation is becoming increasingly sparse. The study area does not appear to have undergone any significant development from the period between 1963 to 1974 (Plate 6). An aerial from 1997 (Plate 7) shows that the dam along the northern boundary has been expanded and an access track has been constructed within the southern portion of the study area. Development outside of the study area directly to the north can be seen to continually expand in the form of residential and commercial land use.



Plate 4 1949 aerial of the study area (Source: Spatial Services, Department of Finance, Services & Innovation)



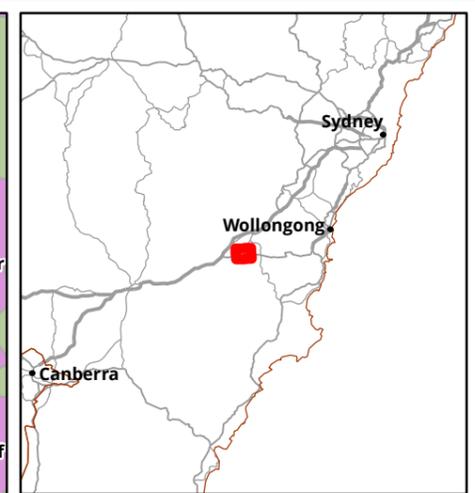
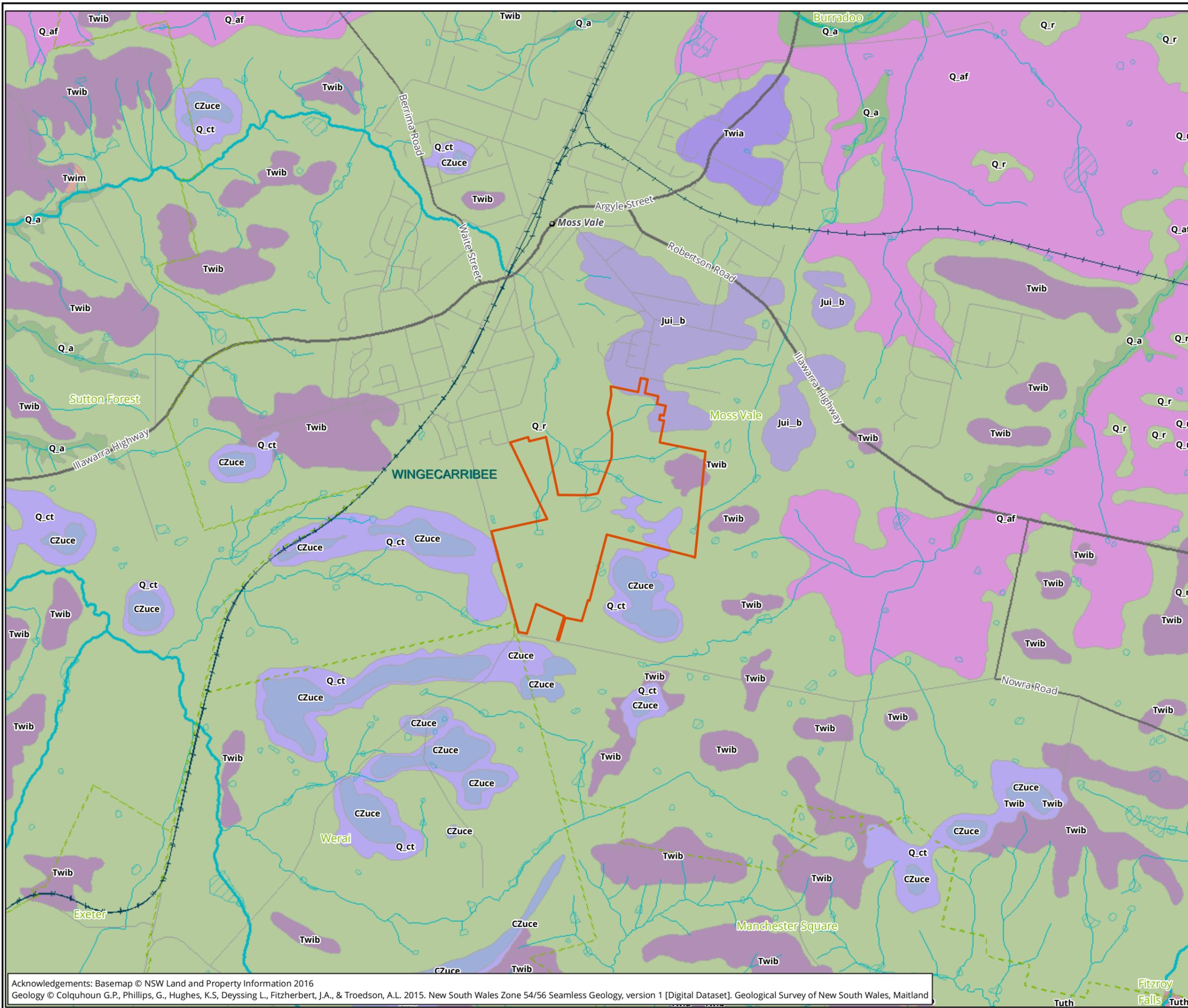
Plate 5 1963 aerial of the study area (Source: Spatial Services, Department of Finance, Services & Innovation)



Plate 6 1974 aerial of the study area (Source: Spatial Services, Department of Finance, Services & Innovation)



Plate 7 1997 aerial of the study area (Source: Spatial Services, Department of Finance, Services & Innovation)



- Legend**
- Study area
- Geological Units**
- CZuce - Robertson Basalt
 - Jui_b - Jurassic, unnamed igneous
 - Q_a - Alluvium
 - Q_af - Alluvial floodplain deposits
 - Q_ct - Colluvial talus deposits
 - Q_r - Residual deposits
 - Tuth - Hawkesbury Sandstone
 - Twia - Ashfield Shale
 - Twib - Bringelly Shale
 - Twim - Minchinbury Sandstone

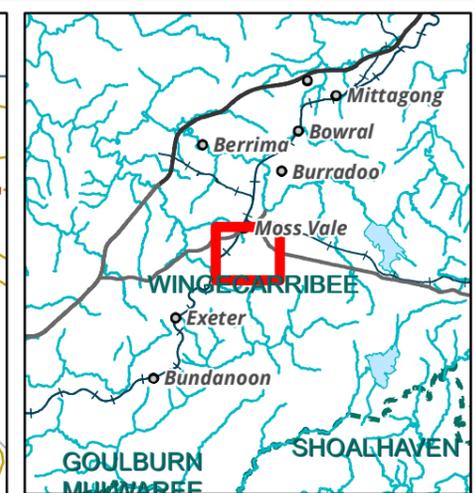
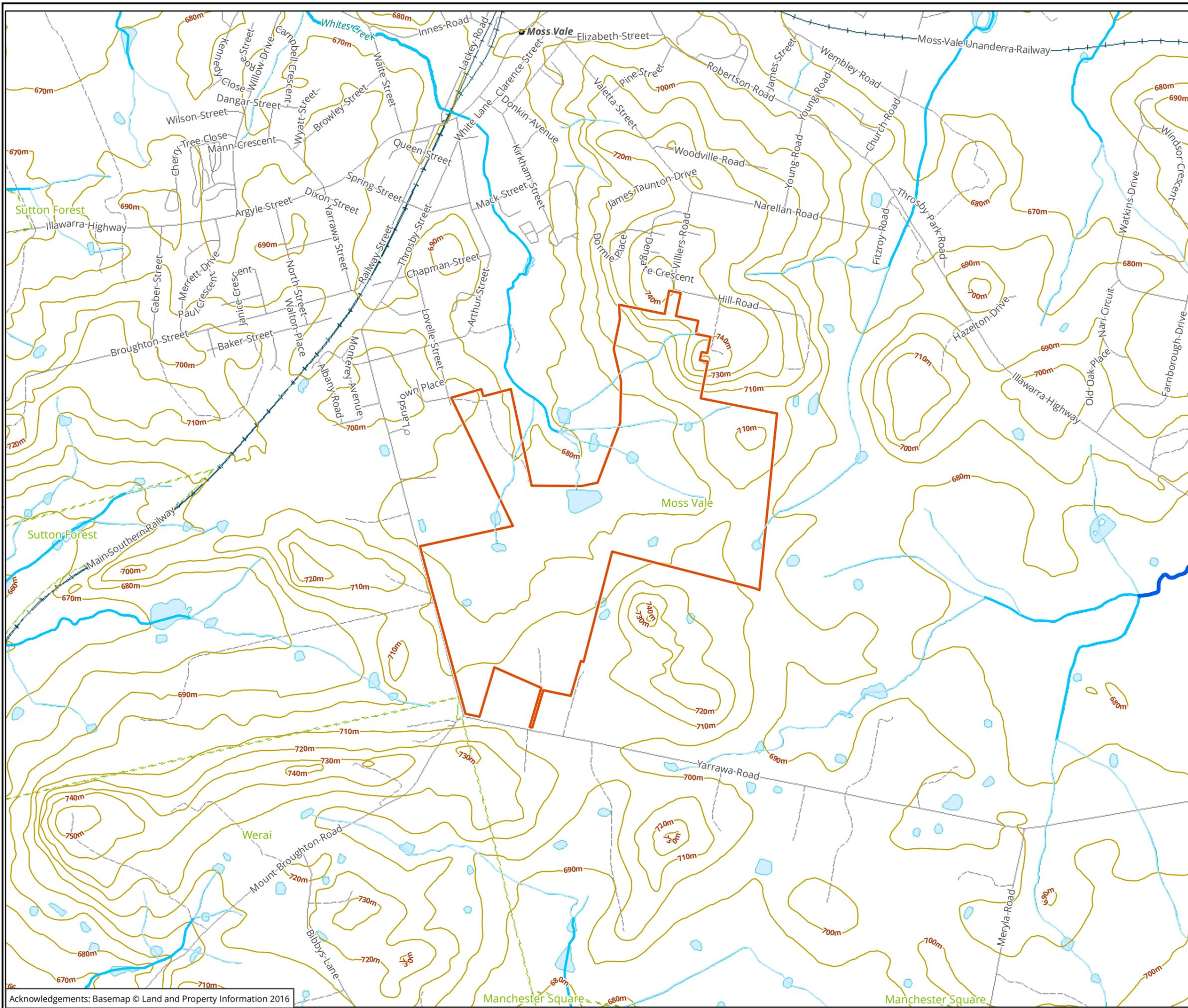
Figure 3 Geology of study area

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 Metres
 Scale: 1:25,000 @ A3
 Coordinate System: GDA 1994 NSW Lambert

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Acknowledgements: Basemap © NSW Land and Property Information 2016
 Geology © Colquhoun G.P., Phillips, G., Hughes, K.S., Deysing L., Fitzherbert, J.A., & Troedson, A.L. 2015. New South Wales Zone 54/56 Seamless Geology, version 1 [Digital Dataset]. Geological Survey of New South Wales, Maitland

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Legend

- Study area
- Contour (10m)

Strahler Order

- 1
- 2
- 3

Figure 4 Hydrology of the study area

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Metres

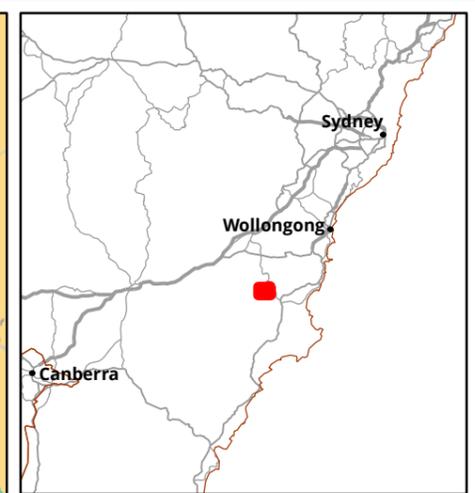
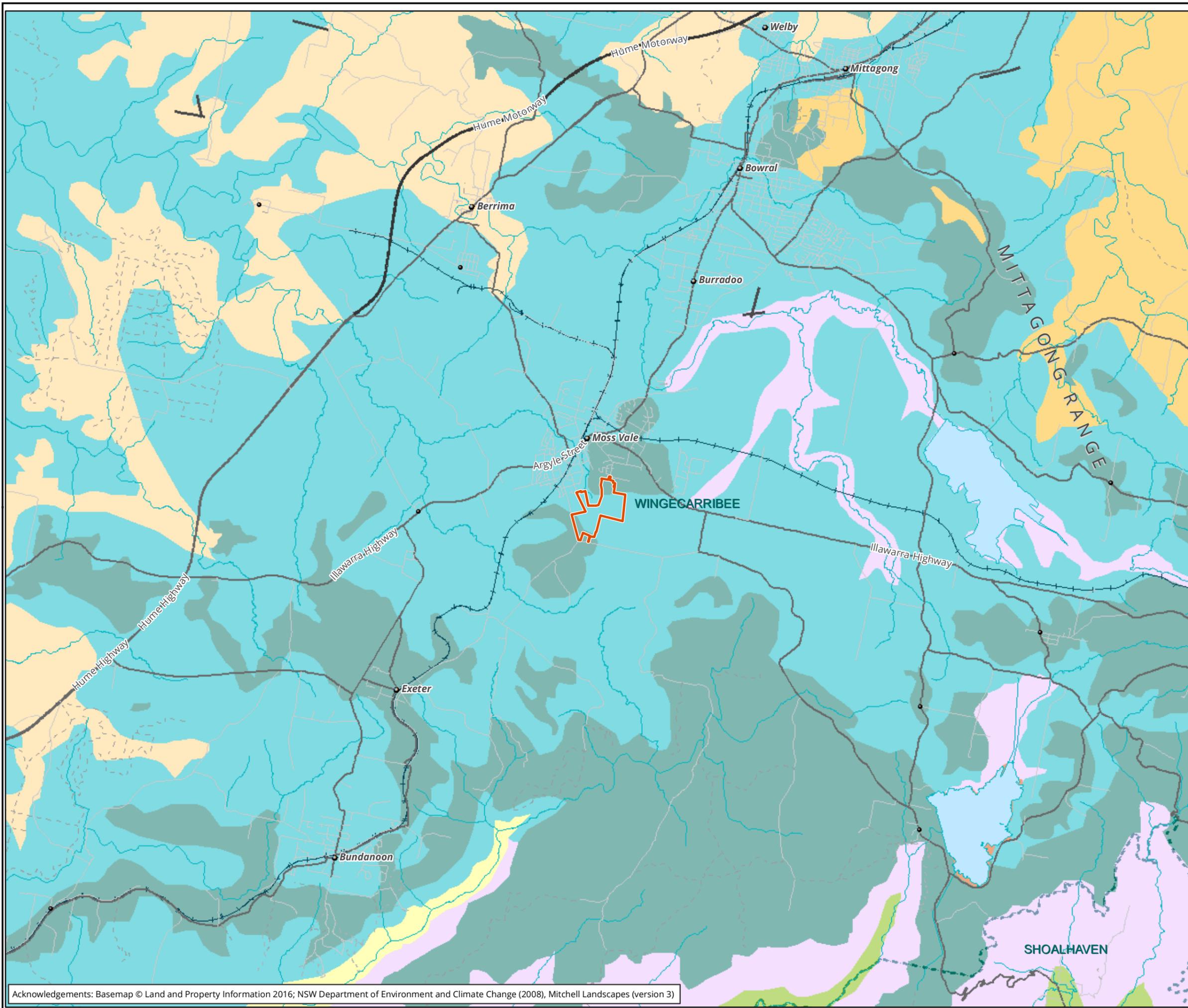
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Legend

- Study area
- Soil landscapes units**
- Estuary/Water Added
- Fitzroy Falls Escarpment
- Fitzroy Falls Plateau
- Kangaroo Valley
- Moss Vale Highlands
- Nattai Plateau
- Robertson Basalts
- Shoalhaven Alluvial Plain
- Wingecarribee Swamp
- Woronora Plateau

Figure 4 Soil landscapes of study area



Scale: 1:100,000 @ A3
 Coordinate System: GDA 1994 NSW Lambert



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2.2 Previous archaeological work

A large number of cultural heritage surface (surveys) and sub-surface (excavations) investigations have been conducted throughout the Southern Highlands region of NSW in the past 30 years. There has been an increasing focus on cultural heritage assessments in NSW due to ever increasing development, along with the legislative requirements for this work and greater cultural awareness of Aboriginal cultural heritage.

The Southern Highlands has been the subject of a moderate level of archaeological survey and assessment. Common sites include isolated finds, open artefact scatters or camp sites, rock shelters containing surface artefacts and/or occupation deposit and/or rock art, and grinding groove sites. The distribution of each of these site types is directly determined by the underlying geology and surface topography. For example, rock shelters are found only in places where suitable sandstone is exposed. Other site types such as modified trees, quarries, burials, stone arrangements and other ceremonial places are rare.

2.2.1 Regional overview

A number of Aboriginal cultural heritage investigations have been conducted for the Southern Highlands region. Models for predicting the location and type of Aboriginal sites with a general applicability to the region and thus relevant to the study area have also been formulated, some as a part of these investigations and others from cultural heritage investigations for relatively large developments.

Dibden (2000) conducted a survey of 5.5 hectare property in Mittagong (18 kilometres north of the study area) adjacent to the upper reaches of Nattai Creek, which located an artefact scatter distributed on either side of an ephemeral creek channel. Subsequent subsurface test pitting revealed that the site had been extensively disturbed by previous European industrial activity. The site was determined to be a sparse scatter of low-density lithic material comprising primarily silcrete, chert and quartz and covering an area of approximately 1.8 hectares. The assemblage contained mainly debitage resulting from stone artefact manufacture, and a micro-blade core was recovered indicated that micro-blade technology was employed on the site.

Kelton and Mills (2003) undertook a survey of the proposed expansion area of Penrose Quarry, approximately 19 kilometres south west of the study area, and identified a rock shelter with ochre and charcoal markings present. The art was determined low scientific significance; however the shelter floor was considered to have high significance due to the depth of floor deposit. Consequently, the shelter floor was excavated within three trenches to the basal weathered sandstone. Artefacts, including backed blades and a dense charcoal deposit were found throughout the soils. A large hearth was also identified that contained stone artefacts, bone and shell. A geomorphologist confirmed the theory that there were two distinct periods of occupation within the shelter, ranging from 2,977 to 12, 829 BP.

Six open artefact scatter sites were recorded during a survey conducted Navin Officer (2003) at Renwick, approximately 18 kilometres north of the study area, in response to a proposed residential subdivision. All sites were located within 200 to 300 metres of an ephemeral water courses on both spur crests and valley floors. Stone artefacts were made primarily on silcrete, with smaller frequencies of quartz, tuff and chert. All artefacts were flakes, cores and flaked pieces indicating general flaking activities; no formal tool types were recorded other than one backed blade. Visibility variables were extremely low during the survey and hence the opportunity to locate artefactual material was considerably hampered.

Following the identification of two artefact scatter sites during a survey, Dibden (2000) conducted a surface collection and test excavations at Lot 1, Sackville Road, Hill Top NSW, approximately 36 kilometres north of the study area. Thirty 50 by 50 centimetre test pits were excavated across a broad ridge 500 metres east of Running Water Creek and adjacent to a 1st order open drainage depression. A total of 241 artefacts were recovered; however, most were collected from the ground surface. Only 15 artefacts were found within 8 of the test pits. Quartz was the most common raw material followed by silcrete and silicified tuff, while artefact

types consisted of cores, bipolar cores, backed artefacts and retouched artefacts. It was concluded that the irregular distribution of artefacts suggested the site was probably occupied for short stays only.

Kelton (2002) surveyed the area above a series of proposed extraction panels for underground mining at the Berrima Colliery, approximately 11 kilometres north west of the study area. The survey targeted a number of landforms including ridge crests, low and upper-mid hill slopes, ephemeral and spring-fed creeks, alluvial and colluvial terraces, and exposed sandstone formations. Three Aboriginal sites were recorded that comprised two rock shelters with art and deposit and one open artefact scatter.

AMBS (2007) conducted test excavations across 115 hectare development area at the Renwick Sustainable Village, approximately 22 kilometres north east of the study area. Two test areas consisting of 1 metres by 1 metre test pits were located on three different landforms (crest, terrace slopes and creek flats) that were associated with 2nd and 3rd order streams. A total of 1786 artefacts were recovered from 138 test pits, with the majority coming from a depth of 19-45 centimetres. The highest density of artefacts were recovered from alluvial deposits adjacent to drainage lines or on terrace slopes with deep sandy deposits. Spur crests and slopes with shallow soil deposits had the least occurrence of artefacts. The dominant raw material was quartz followed by quartzite and silcrete. The small number of bipolar cores, the use of quartz and presence of back artefacts suggested a date range of 5000 to 1600 years ago.

2.2.2 Local overview

A number of Aboriginal cultural heritage investigations have been conducted within the region (within approximately 10 kilometres of the study area). Most of these investigations were undertaken as part of development applications and included surface and sub-surface investigations. These investigations are summarised below.

An archaeological assessment was conducted for the Berrima Sewerage Scheme, approximately 10 kilometres north east of the study area (Koettig 1987). Two open artefacts sites were identified during the survey: one was located within a bulldozer scour exposure on the alluvial floodplain of the Wingecarribee River, and the other site was on a spur crest 100 metres from a tributary of the Wingecarribee River. Artefacts consisted of chert, silcrete and quartz. Test excavations were conducted on a low, wide spur that had been largely cleared. Thirteen backhoe pits were excavated along with two shovel test pit transects of 19 test pits. A total of 67 artefacts were recovered from the test pits, with most being located at a depth of 10 to 20 centimetres, and consisted of quartz, silcrete, mudstone and chert. Koettig argued that due to the limited number of excavations within the region during the 1980s, the test excavations could not determine whether the recovered archaeological material was typical of sites more than 100 metres from water but concluded that spurs and undulating ground close to minor streams were of moderate archaeological sensitivity.

Total Earth Care (2006) undertook a pedestrian survey of for the Moss Vale 'South West' development at Lot 3 DP603903, Part Lot 54 DP751253, Lots 1 & 2 DP788609, located approximately 1 kilometre west of the study area. The survey of this area resulted in the identification of eighteen artefacts; in total. One artefact scatter of thirteen artefacts was located over an area of 50 metres by 70 metres area (Site MVSW1) on a level crest of a ridgeline. Five associated isolated finds were also located across the study area on a range of landforms. Total Earth Care considered these finds to be part of lower density occurrences of artefact associated with the artefact scatter. It was predicted that a substantial subsurface assemblage is likely to be present at the MVSW1 site and as such it was recommended that the site be conserved or that further investigation is undertaken prior to any disturbance or development of the site.

Dibden (2006) undertook a preliminary assessment of two areas at Colo Vale (Wensleydale) and Moss Vale (Chelsea Gardens). The Chelsea Gardens site covers the current study area, while the Wensleydale site is approximately 18 kilometres north east of the study area. A pedestrian and vehicle survey of the study area resulted in the identification of six sites; four at the Wensleydale site, and two at the Chelsea Gardens site.

Possible scar trees were also recorded at both sites. At Wensleydale, artefacts comprised of silcrete, quartzite, and chert flakes, and a chert core. Artefacts at Chelsea Gardens comprised of chert, silcrete, quartz, quartzite, and volcanic flakes; and a silcrete blade. Both sites (AHIMS 52-4-0194/Chelsea Gardens Locale 2, and AHIMS 52-4-0193/Chelsea Gardens Locale 1) located within the Chelsea Gardens study area were located on raised landforms, with one site located on a remnant spur and the second on the crest of a ridgeline. In addition to these two sites, Dibden also identified a scar tree that they identified as possibly being a surveyors blaze. Wensleydale and Chelsea Gardens were identified as having been impacted from pastoralism, but it was predicted that there exists the potential for intact archaeological remains to occur in the subsurface below the horticultural layer.

EMM (2017) conducted an ACHA on behalf of Hume Coal Pty Ltd for an underground coal mine and associated mine infrastructure in the Southern Coalfields of NSW, approximately seven kilometres northwest of the study area. A desktop assessment was conducted of the environmental, archaeological and ethnohistoric contexts and, through consultation with the Aboriginal community, a predictive model of Aboriginal site location was able to be determined:

- Artefact scatters and isolated finds are most likely to occur as background scatter on all landforms; however, concentration of artefacts are most likely to occur on elevated landforms or raised areas of lower lying landforms adjacent to ephemeral and perennial streams, within 200 metres.
- Elevated landforms near the confluence of streams are particularly sensitive to open artefact scatters.
- Rock shelters are likely to occur along rocky scarps and cliff lines.
- Grinding grooves and engraving sites are most likely to be present on outcropping sandstone in stream beds or adjacent to streams.
- Modified trees will occur in areas that have not been cleared and are of sufficient age to bear marks of traditional Aboriginal scarring or carving.

Due to the large area of the project, the predictive model was used to target specific areas during archaeological surveys and test excavation. The survey resulted in 166 newly recorded sites within the Hume Coal Project area, 11 newly recorded sites within the Berrima Rail Project area and two previously recorded sites were relocated and re-recorded. Sites types included rock shelters (some with art, artefacts and PADs), grinding grooves, open stone artefact sites, areas of PAD, and potential culturally modified trees.

Based on this survey an archaeological test excavation was conducted, which consisted of 160 test pits being excavated. 281 artefacts were recovered and consisted of cores, flakes, and flake fragments, and 11 retouched artefacts were identified. Raw material comprised of quartz, silcrete, quartzite, chert, volcanic, and petrified wood. The excavations determined that the overall average artefact density was seven artefacts per square metre with the upper soil profile bearing the majority of artefacts. The results of both the survey and test excavations confirmed that the presence of stone artefacts is linked directly to distance to streams and that the presence and frequency of surface artefact sites is not a reliable indicator of subsurface frequencies.

Artefact (2018) was engaged by Brickworks Ltd to prepare an Aboriginal heritage assessment for the proposed development of a masonry plant and associated infrastructure located seven kilometres north of the study area. The assessment found that a portion of AHIMS 52-4-0175/52-4-0197, including a surface artefact scatter and an associated area of archaeological sensitivity, would be impacted by the proposed Stage 1 works. Another portion of the same site, which includes a suite of grinding grooves and associated area of archaeological sensitivity, is located 20 metres outside the proposed Stage 1 impact area. The survey also found three additional Aboriginal sites (AHIMS 52-4-0196, CPark A1 and CPark A2) and areas of archaeological sensitivity located outside the Stage 1 area within the Stage 2 area for future development. Artefact recommended archaeological test excavations to determine the nature and extent of any potential

subsurface deposits. They also recommended an exclusion zone around the grinding grooves to mitigate any direct or indirect impacts, along with a heritage management plan.

Biosis (2019a) was commissioned by Brickworks Ltd to undertake an Aboriginal cultural heritage assessment at 416 Berrima Road, New Berrima for the proposed development of a masonry plant. A total of 427 artefacts were recorded from the sub-surface excavations, with debitage being the most common artefact type followed by complete flakes, and flake fragments. A total of 38 cores were recovered, 28 of which were bipolar. A relatively high number of tools were also recorded in the assemblage (n=12). The majority of these tools consisted of backed artefacts (n=9); although, two scrapers and one burin were also identified. The high frequency of tools recorded in the assemblage indicates that the area was likely to have been used as either a tool processing area or as an occupation area (or camp site) where tools were discarded. The archaeological test excavations identified a high density intact subsurface archaeological deposit within a terrace landform adjacent to Stony Creek, an area which will be conserved.

2.2.3 AHIMS site analysis

A search of the AHIMS database (Client Service ID: 368973) identified 31 Aboriginal archaeological sites within a 5 kilometre search area, centred on the proposed study area. One of these registered sites is located within the study area (Chelsea Gardens Locale 2/AHIMS 52-4-0194), whilst a second is located within 100 metres of its southern boundary (Chelsea Gardens Locale 1/AHIMS 52-4-0193) (Figure 6). It must be noted that the mapping coordinates on AHIMS for these two sites appear to be incorrect. According to Dibden's (2006) report, the correct locations of these sites is about 250 metres north east of where they are mapped on AHIMS. This inaccuracy is a result of the map grid coordinates used as Dibden's (2006) report recorded sites using the AGD66 system while Biosis mapping uses the GDA94 system. A summary of each site is provided below:

- Chelsea Gardens Locale 1 (AHIMS 52-4-0193) consists of a low density scatter of eight stone artefacts eroding out of a silage pit that is currently used as a refuse area. The site is located on the western margin of the ridgeline that extends along the eastern boundary of the study area. The artefacts were found within an area measuring 50 metres north-south by 10 metres east-west, with most being located in redeposited soil excavated from the silage pit. The artefact scatter included complete completed flakes and flake pieces made from chert, silcrete, quartz and volcanic material. There is a high potential for the site to be larger than recorded, and a moderate potential exists across the landform for subsurface artefacts to occur in an undisturbed context.
- Chelsea Gardens Locale 2 (AHIMS 52-4-0194) consists of a low density scatter of at least eleven stone artefacts eroding out of the topsoil on a small knoll to the west of the main dam and immediately south of the golf course. The recorded artefacts are visible in the patches of bare earth beneath the trees. The recorded artefacts extend over an area of 50 metres north-south by 30 metres east-west. There is a high potential for the site to be larger than recorded and, a moderate potential exists for subsurface artefacts to occur in an undisturbed context within the remaining sections of the landform.

AHIMS search results are provided in Appendix 1. Table 2 provides the frequencies of Aboriginal site types in the local vicinity of the study area. The mapping coordinates recorded for these sites were checked for consistency with their descriptions and location on maps from Aboriginal heritage reports where available. These descriptions and maps were relied where notable discrepancies occurred.

It should be noted that the AHIMS database reflects Aboriginal sites that have been officially recorded and included on the list. Large areas of NSW have not been subject to systematic, archaeological survey; hence AHIMS listings may reflect previous survey patterns and should not be considered a complete list of Aboriginal sites within a given area. Some recorded sites consist of more than one element, for example artefacts and a modified tree, however for the purposes of this breakdown and the predictive modelling, all

individual site types will be studied and compared. This explains why there are 35 results presented here, compared to the 31 sites identified in AHIMS.

Table 2 AHIMS site type frequency

Site type	Number of occurrences	Frequency (%)
Modified Tree (Carved or Scarred)	3	8.57
Burial	1	2.86
Artefact	28	80
Grinding Groove	1	2.86
PAD	2	5.71
Total	35	100

A simple analysis of the Aboriginal cultural heritage sites registered within a five kilometre buffer of the study area indicates that artefact sites are the most common site type is at 80% (n=28). This is followed by modified trees at 8.57% (n=3), PAD at 5.71% (n=2), and grinding grooves and burials each making up 2.86% (n=1 each).

Redacted

Legend

-  Study area
-  AHIMS record

Figure 6 AHIMS records near the study area

NOT TO BE MADE PUBLIC



Kilometres
Scale: 1:45,000 @ A3
Coordinate System: GCS GDA 1994



Ballarat, Brisbane, Canberra, Melbourne,
Sydney, Wangaratta & Wollongong

Matter: 28011
Date: 19 July 2019
Checked by: amurray, Generated by: amurray
Location: P:\28000s\28011\mapping\
28011_AR_F6_AHIMS.mxd

3 Predictive model

Biosis has previously prepared predictive modelling for the Highlands region as part of an Aboriginal Cultural Heritage Assessment located at Berrima (Biosis Pty Ltd 2019b)

The predictive model contained within this section is based upon:

- Site distribution in relation to local soil landscapes, local geology, local hydrology and local topography within the study area.
- Consideration of site type, raw material types and site densities likely to be present within the study area.
- Findings of the ethnohistorical research on the potential for material traces to present within the study area.
- Potential Aboriginal use of natural resources present or once present within the study area.
- Consideration of the temporal and spatial relationships of sites within the study area and surrounding region.

Based on this information, a predictive model was developed, indicating the site types most likely to be encountered during the survey and subsequent sub-surface investigations across the present study area.

3.1 Analysis of Aboriginal occupation

A regional AHIMS search undertaken by Biosis (2019b), resulted in similar site type occurrences to those from the local search discussed above in section 2.2.3. The regional search identified 103 AHIMS sites within a 10 kilometre search area, compared to the 31 identified in the local area. The most commonly recorded site types in the Highlands region are artefact sites, which represent a total of 71.88% (n=74) of all sites noted (Table 3). The next most common site types are PAD sites (13.59%, n=14), followed by grinding grooves (7.77%, n=8), modified trees (5.82%, n=6) and one occurrence each of a shell site and burial site (0.92%, n=1).

Once again, in order to use this data, it is necessary to acknowledge possible biases. It should be noted that the AHIMS database reflects Aboriginal sites that have been officially recorded and included on the AHIMS register. Large areas of NSW have not been subject to systematic, archaeological survey; hence AHIMS listings may reflect previous survey patterns and should not be considered a complete list of Aboriginal sites within a given area.

Table 3 Summary of the AHIMS site types recorded within the wider region

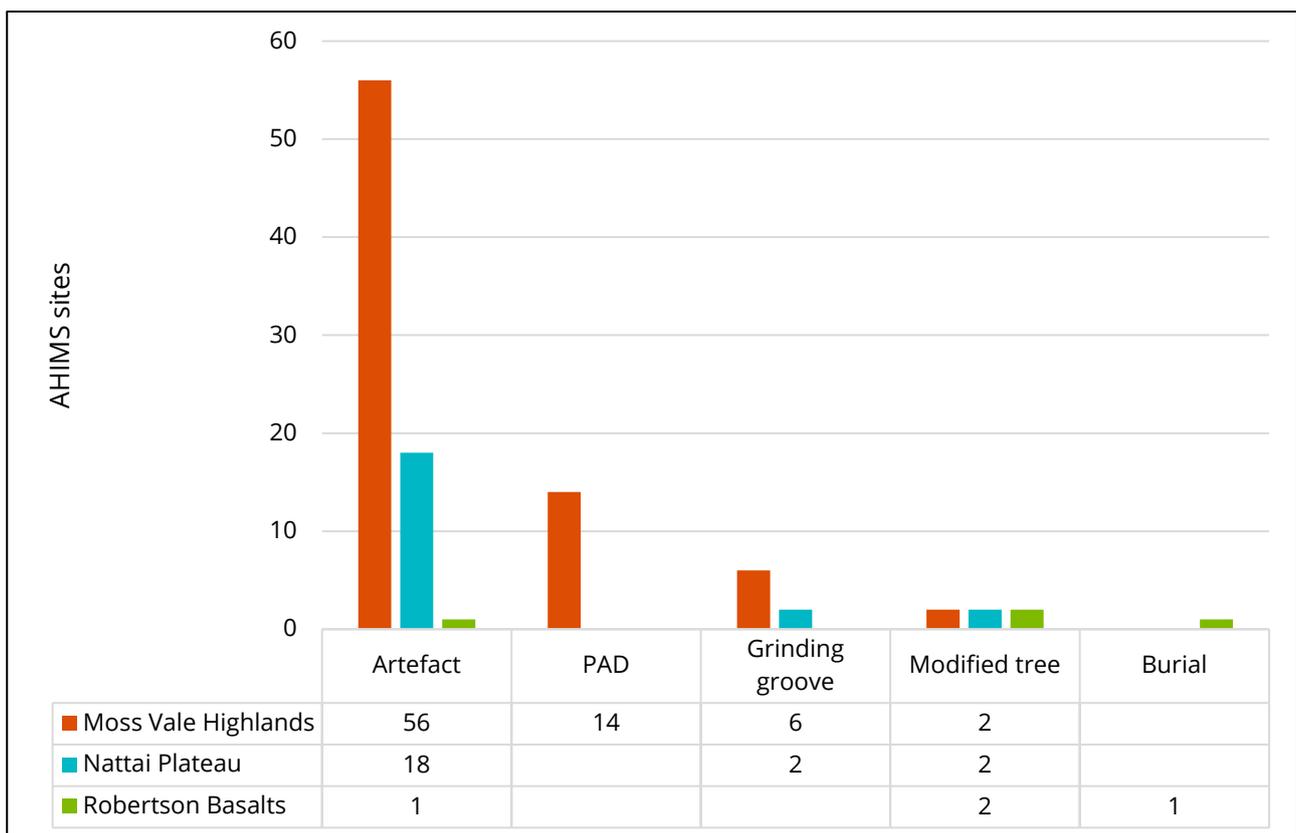
Site type	Number of occurrences	Frequency (%)
Artefact	74	71.88
PAD	14	13.59
Grinding groove	8	7.77
Modified tree	6	5.82
Shell	1	0.97
Burial	1	0.97

Site type	Number of occurrences	Frequency (%)
Total	103	100.00

3.1.1 Local soils

An analysis of Aboriginal sites in relation to soil landscapes has been completed to identify correlations, which may be caused by the environment in each landscape. Soil landscapes are characterised by distinct vegetation and landforms, both of which can influence the distribution of Aboriginal heritage sites. Moss Vale Highlands soil landscape is one of the most dominate landscapes within the local area. This soil landscape occurs extensively within the Southern Highlands and is associated with rolling hills and rounded peaks with deep channel incisions (Mitchell 2002, p.106). The majority of the study area consists of the Moss Vale Highlands soil landscape, with small areas of Robertson Basalts.

The greatest variety of site types and the highest number of sites occur in the Moss Vale Highlands soil landscape (Graph 1). A total of 78 sites are recorded in this soil landscape, accounting for 75% of the total recorded sites identified. This landscape contains four site types including artefacts, PADs, grinding grooves, and modified trees. The Nattai Plateau soil landscape contains the second highest number of sites (n=22), which accounts for 21.2% of sites and includes 18 artefact scatters, two modified trees, and two grinding grooves.



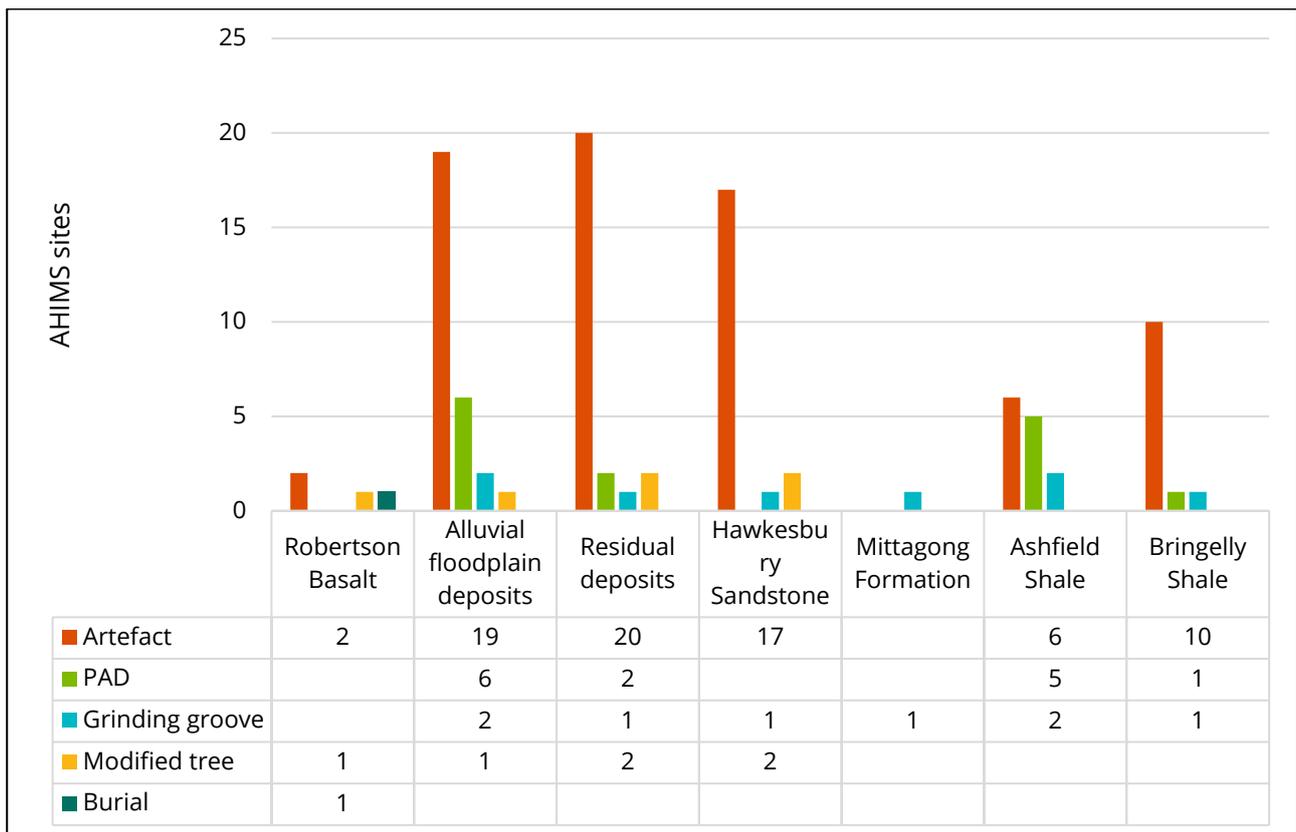
Graph 1 Site types and frequency of recorded AHIMS sites located within soil landscapes in the local region

3.1.2 Local geology

The underlying geology that dictates the existing landscape is the Wianamatta Group. Within this group, the residual deposits (Q_r) are the most frequently occurring formation within the local area and includes the majority of the Stage 1 study area. This unit consists of mid grey and dark grey mudstones with interbedded

lithic sandstones as well as finer grained siltstones and claystone. A total of 27% of all artefact scatters recorded in the local area have been noted within this formation. Likewise, the second most frequently occurring formation, the alluvial floodplain deposits (Q_af) contains 25.6% of all artefact scatters.

The alluvial floodplain deposits also contain the most PADs (42.90%) and grinding groove (25%) sites. Subsequently, both of these formations are the most archaeological rich in comparison to others and have recorded the highest variety of cultural material compared to others (Graph 2). The Hawkesbury Sandstone (Tuth) also recorded a relatively high number of artefacts within the region. This unit consists of medium to coarse-grained quartz sandstone with minor shale and laminite lenses. A total of 30% of all artefact scatters recorded have been noted within this formation.



Graph 2 Site types and frequency of recorded AHIMS sites located within the geological units in the local region

3.1.3 Local hydrology

Distance to water

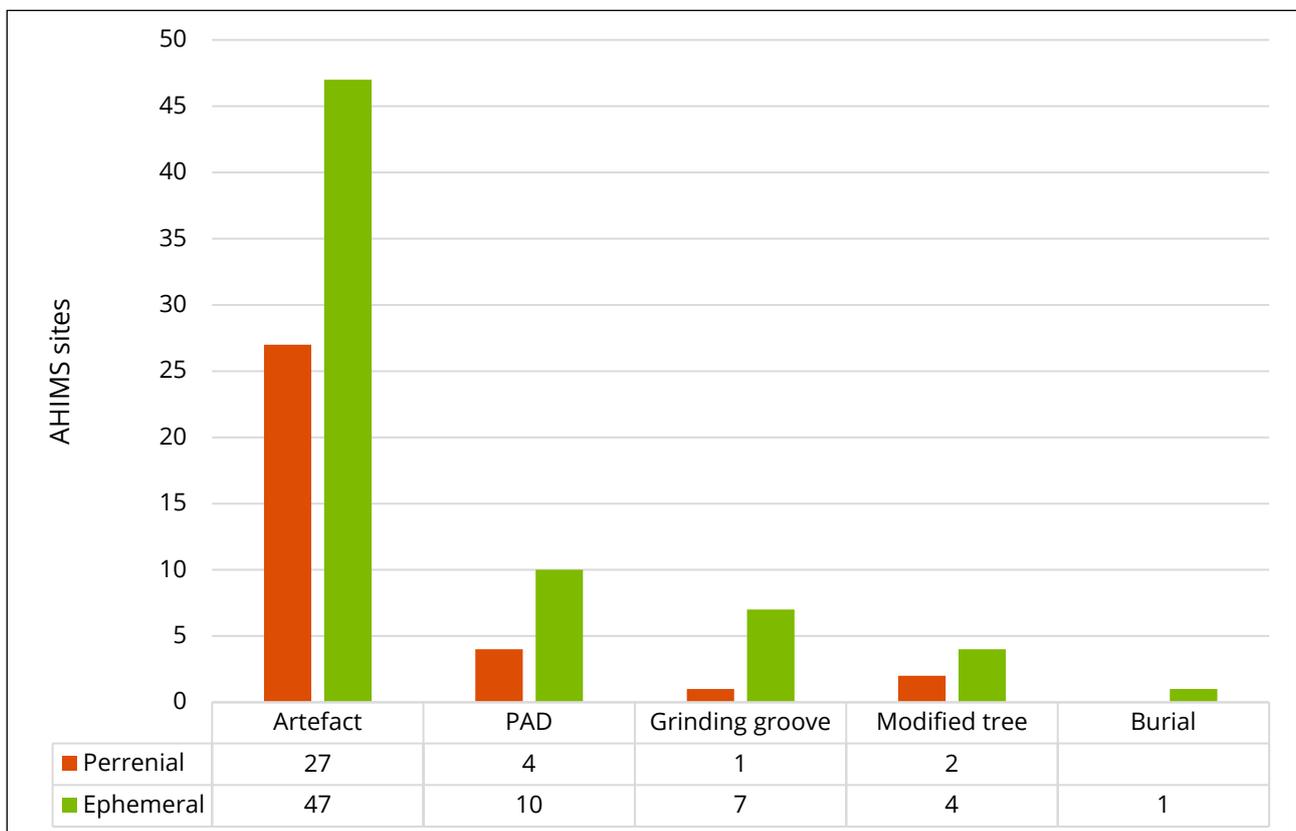
Distance to water is a common and important factor in the distribution of Aboriginal sites. Water is imperative to survival and areas with access to abundant water was often the preferred location for occupation. Within the local area the average distance that sites are recorded from permanent water sources is approximately 90.8 metres and 142.2 metres to ephemeral water source. A further analysis of this information illustrates the distribution of site types within the landscape and their general relationship to water sources.

The data illustrates that artefact scatters are on average closer to ephemeral water sources than permanent ones, as are PADs and grinding grooves. Modified trees are on average closer to permanent water sources than ephemeral ones. This data also shows that modified trees have the longest average distance to permanent water sources, while artefacts have the longest average distance to ephemeral water sources. As

only six modified trees and eight grinding grooves have been identified in the AHIMS results, the numbers contain some bias as the data could be affected by the possible underrepresentation of certain site types in the local area.

Table 4 Summary of the site types and their associated distances to water (metres)

Site type	Permanent water source			Ephemeral water source		
	Max	Min	Average	Max	Min	Average
Artefact/s	285.2	9.9	81.3	542.9	4.5	161.6
Modified tree	166.3	105.1	135.7	267.9	26.2	156.8
Grinding grooves	-	-	20.3	139.3	0.1	33.6
PAD	77.5	13.7	40.3	204.5	19.8	76.1
Total	-	-	90.8	-	-	142.2

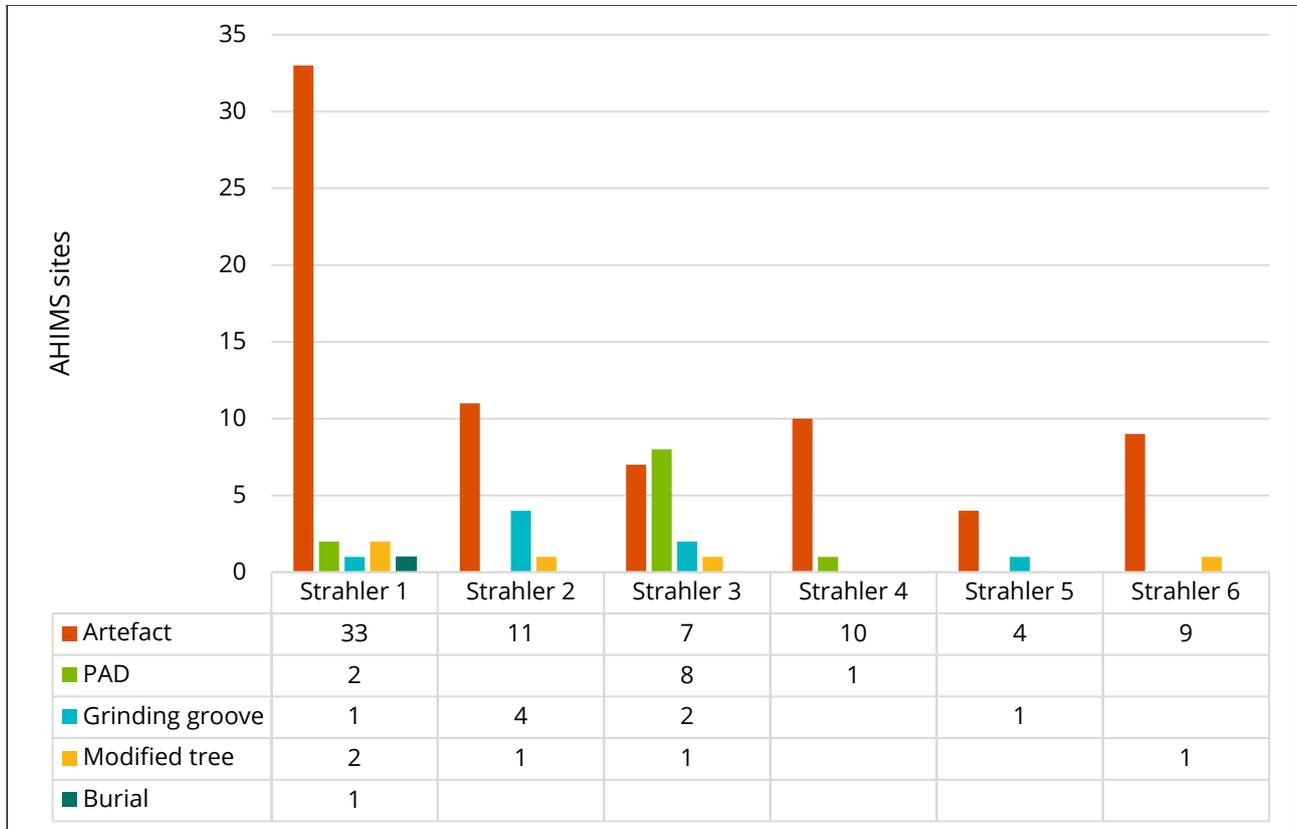


Graph 3 Site types and frequency of recorded AHIMS sites and distance to water

Stream order

In the local area, it becomes evident that 39.4% of all sites are located near a first order stream. These sites include artefacts, PADs, grinding grooves, one burial and modified trees, with artefacts representing nearly 84.6% of all sites near first order streams. The second highest number of sites, a total of 18.2%, are located near third order streams. This group of sites consisted of artefacts, PADs, modified trees and grinding grooves. A total of 16.2% sites are located near second order, 11.1% near fourth order streams, 10.1% near sixth order streams, and 5.1% near fifth order streams (Graph 4). From this analysis alone it could be

suggested that a higher number of Aboriginal sites are situated around first, second and third order streams. It also suggests that PADs are more likely to be located near third order streams and that grinding grooves will be located near a second order stream. Overall, it could suggest a preference for this environmental zone, which helps to predict the location and complexity of other unrecorded Aboriginal sites in the landscape.



Graph 4 Site types and frequency of recorded AHIMS sites and Strahler order

3.2 Aboriginal site prediction statements

The definition of each site type is described in Table 5 firstly, followed by the predicted likelihood of this site type occurring within the study area (Table 6).

Table 5 Definitions of the predictive model

Potential rating	Description
Very High	The aboriginal site types given this rating are those that have been recorded predominantly in both the local and regional area. Likewise, the landscape conditions within the focus area will also be aligned with those generally associated with this site type.
High	Those aboriginal sites types give this rating have been recorded in both the regional and local landscape. However, there numbers are not as numerous. This being said the landscape conditions within the focus area will be aligned with those generally associated with this site type. Although it may be unlikely to locate this site type, due to their overall moderated numbers, this location would be where you would ultimately find them.
Moderate	Sites are known to occur in the regional and local landscape but not in high numbers. The landscape conditions are not precisely aligned however the site may infrequently occur in certain conditions.
Low	The site types given this rating have been recorded regionally, but not locally and not in substantial numbers. The site is generally considered unlikely to occur within the landform conditions present.

Table 6 Aboriginal site prediction statements

Site type	Site description	Potential
Flaked stone artefact scatters and isolated artefacts	Artefact scatter sites can range from high-density concentrations of flaked stone and ground stone artefacts to sparse, low-density 'background' scatters and isolated finds.	Very high: Stone artefact sites have been previously recorded in the region across a wide range of landforms including alluvial flats, and also within the study area. They have a high potential to be present in undisturbed areas within the study area.
PADs	Potential sub surface deposits of cultural material.	High: PADs have been previously recorded in the region across a wide range of landforms including alluvial flats. They have the potential to be present in undisturbed landforms.
Axe grinding grooves	Grooves created in stone platforms through ground stone tool manufacture.	Low: The geology of the study area lacks suitable horizontal sandstone rock outcrops for axe-grinding grooves. Therefore, there is low potential for axe grinding grooves to occur in the study area.
Modified trees	Trees with cultural modifications	Low: Due to extensive vegetation clearance there are no mature native trees within the study area; therefore, the potential for modified trees to occur is low.

Site type	Site description	Potential
Shell middens	Deposits of shells accumulated over either singular large resource gathering events or over longer periods of time.	Low: Shell midden sites have not been recorded within the study area and due to the distance from permanent water sources, there is low potential for shell middens to be present within the study area.
Quarries	Raw stone material procurement sites.	Low: There is no record of any quarries being within or in the vicinity of the study area.
Burials	Aboriginal burial sites.	Low: Aboriginal burial sites are generally situated within deep, soft sediments, caves or hollow trees. Areas of deep sandy deposits will have the potential for Aboriginal burials. The soil profiles associated with the study area are not commonly associated with burials.
Rock shelters with art and / or deposit	Rock shelter sites include rock overhangs, shelters or caves, and generally occur on, or next to, moderate to steeply sloping ground characterised by cliff lines and escarpments. These naturally formed features may contain rock art, stone artefacts or midden deposits and may also be associated with grinding grooves.	Low: The sites will only occur where suitable sandstone exposures or overhangs possessing sufficient sheltered space exist, which are not present in the study area.
Aboriginal ceremony and Dreaming Sites	Such sites are often intangible places and features and are identified through oral histories, ethnohistoric data, or Aboriginal informants.	Low: There are currently no recorded mythological stories for the study area.
Post-contact sites	These are sites relating to the shared history of Aboriginal and non-Aboriginal people of an area and may include places such as missions, massacre sites, post-contact camp sites and buildings associated with post-contact Aboriginal use.	Low: There are no post-contact sites previously recorded in the study area and historical sources do not identify one.
Aboriginal places	Aboriginal places may not contain any 'archaeological' indicators of a site, but are nonetheless important to Aboriginal people. They may be places of cultural, spiritual or historic significance. Often they are places tied to community history and may include natural features (such as swimming and fishing holes), places where Aboriginal political events commenced or particular buildings.	Low: There are currently no recorded Aboriginal historical associations for the study area.

4 Archaeological survey

A field survey of the study area was undertaken on 12 September 2018 by Biosis Archaeologist Mathew Smith, and Duncan Falk of Duncan Falk Consulting. The field survey sampling strategy, methodology and a discussion of results are provided below.

4.1 Archaeological survey objectives

The objectives of the survey were to:

- Attempt to re-identify Aboriginal archaeological sites previously identified in the study area.
- Undertake a systematic survey of the study area targeting areas with the potential for Aboriginal heritage.
- Identify and record Aboriginal archaeological sites visible on the ground surface.
- Identify and record areas of PADs.

4.2 Archaeological survey methodology

The survey methods were intended to assess and understand the landforms and to determine whether any archaeological material from Aboriginal occupation or land use exists within the study area.

4.2.1 Sampling strategy

The survey effort targeted all landforms (including each occurrence of a specific landform type that will be impacted) that will be potentially be impacted by the proposed development.

4.2.2 Survey methods

The archaeological survey was conducted on foot with a field team of two members. Recording during the survey followed the archaeological survey requirements of the Code and industry best practice methodology. Information that recorded during the survey included:

- Aboriginal objects or sites present in the study area during the survey.
- Survey coverage.
- Any resources that may have potentially have been exploited by Aboriginal people.
- Landform.
- Photographs of the site indicating landform.
- Evidence of disturbance.
- Aboriginal artefacts, culturally modified trees or any other Aboriginal sites.

Where possible, identification of natural soil deposits within the study area was undertaken. Photographs and recording techniques were incorporated into the survey including representative photographs of survey units, landform, vegetation coverage, ground surface visibility (GSV) and the recording of soil information for each survey unit were possible. Any potential Aboriginal objects observed during the survey were documented and photographed. The location of Aboriginal cultural heritage and points marking the

boundary of the landform elements were recorded using a hand-held Global Positioning System (GPS) and the Map Grid of Australia (MGA) (94) coordinate system.

4.3 Archaeological survey results

A total of six transects were walked across four landforms with the two surveyors walking two metres apart (Figure 7). This follows the methodology set out in Burke and Smith (2004, p.65) which states that a single person can only effectively visually survey an area of two linear metres. Two Aboriginal sites and areas of PAD were identified in the study area. The results from the field survey have been summarised in Table 7 below and full transect details are provided in Appendix 2.

Generally the survey was hampered by poor GSV in some areas due to dense vegetation and thick grass cover; although areas of high visibility in recently ploughed fields were present in the study area allowing for good survey conditions.

4.3.1 Visibility

In most archaeological reports and guidelines visibility refers to GSV, and is usually a percentage estimate of the ground surface that is visible and allowing for the detection of (usually stone) artefacts that may be present on the ground surface (DECCW 2010b). Visibility across the study area was low due to grass cover. Approximately 30% of the total ground surface was visible, with isolated areas of high visibility where disturbance such as in ploughed fields and around water storage dams had removed vegetation coverage (Plate 8 and Plate 9).



Plate 8 Photo of a ploughed paddock with low visibility due to vegetation cover from cropping

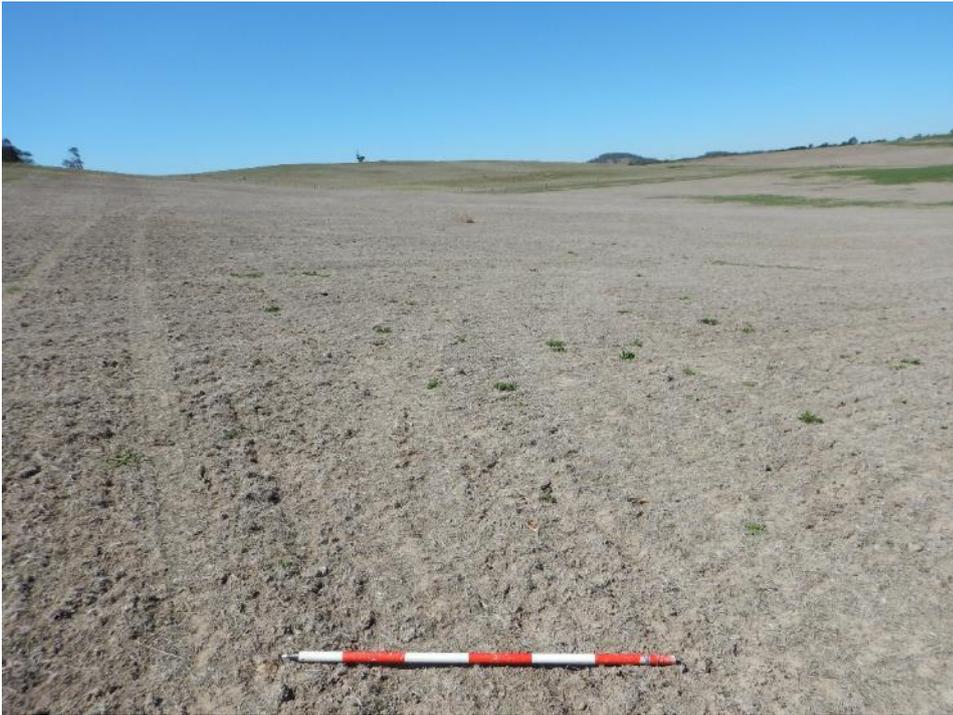


Plate 9 Photo showing a paddock with high visibility due to low levels of vegetation

4.3.2 Exposure

Exposure refers to the geomorphic conditions of the local landform being surveyed, and attempts to describe the relationship between those conditions and the likelihood the prevailing conditions provide for the exposure of (buried) archaeological materials. Whilst also usually expressed as a percentage estimate, exposure is different to visibility in that it is in part a summation of geomorphic processes, rather than a simple observation of the ground surface (Burke & Smith 2004, p.79, DECCW 2010b). Levels of exposure across the extent of the study area were low at 30%.

These areas of exposure were present where disturbances had impacted land and removed grass cover, with dams in the study area providing particularly good exposures of soil profiles (Plate 10). Due to these exposures, the two soil landscapes present within the study area were readily observed. The Moss Vale Highlands yellow and grey texture-contrast soils and the Robertson Basalts red and red-brown structured loams were present within some of these exposures.



Plate 10 Photo showing soil profile exposure on the edge of a dam

4.3.3 Disturbances

Disturbances can be associated with both natural and human causes. Natural agents generally affect small areas and include the burrowing and scratching in soil by animals, such as wombats, foxes, rabbits and wallabies, and sometimes exposure from slumping or scouring. Disturbances associated with recent human action more often cover large sections of the land surface. The agents can include residential development such as landscaping and construction of residential buildings; farming practices, such as initial vegetation clearance for creation of paddocks, fencing and stock grazing; agricultural practices such as fruit orchards; light industrial practices and creation of artificial dams.

The disturbances across the study area are primarily associated with human agents and ranged from large shallow disturbances to small intensive disturbances. The study area was being used for cattle grazing at the time of survey and isolated areas of disturbance around feed troughs and gates were observed. Portions of the study area also displayed disturbances from agriculture with several paddocks in the study area containing evidence of ploughing and one area displaying evidence of orchards. Several intensive areas of disturbance associated with dams were also present through the study area (Plate 11, Plate 12 and Plate 13).



Plate 11 Disturbance from cattle trampling in the study area

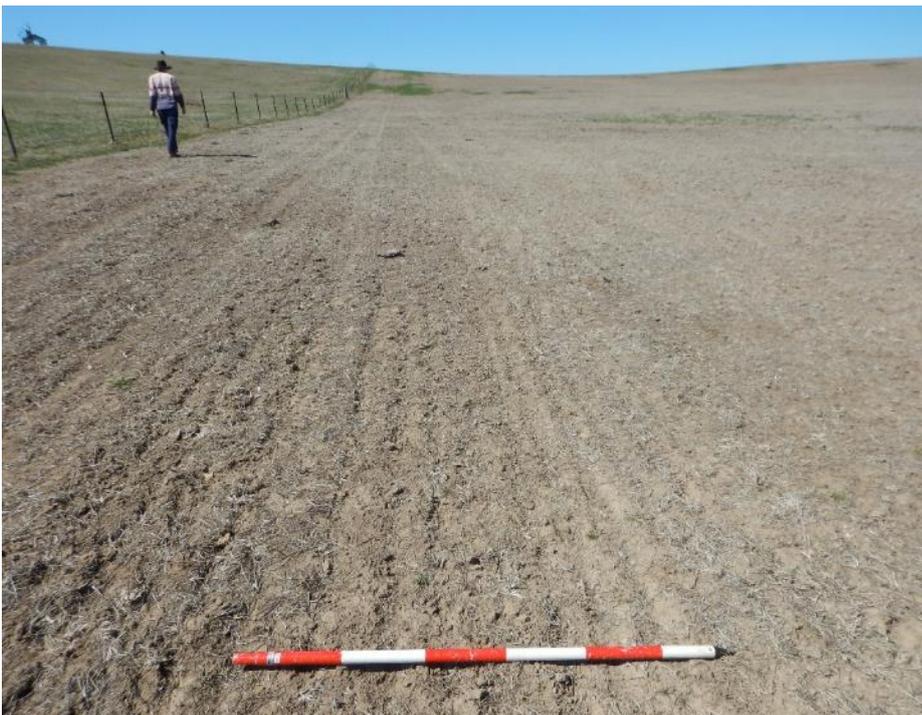


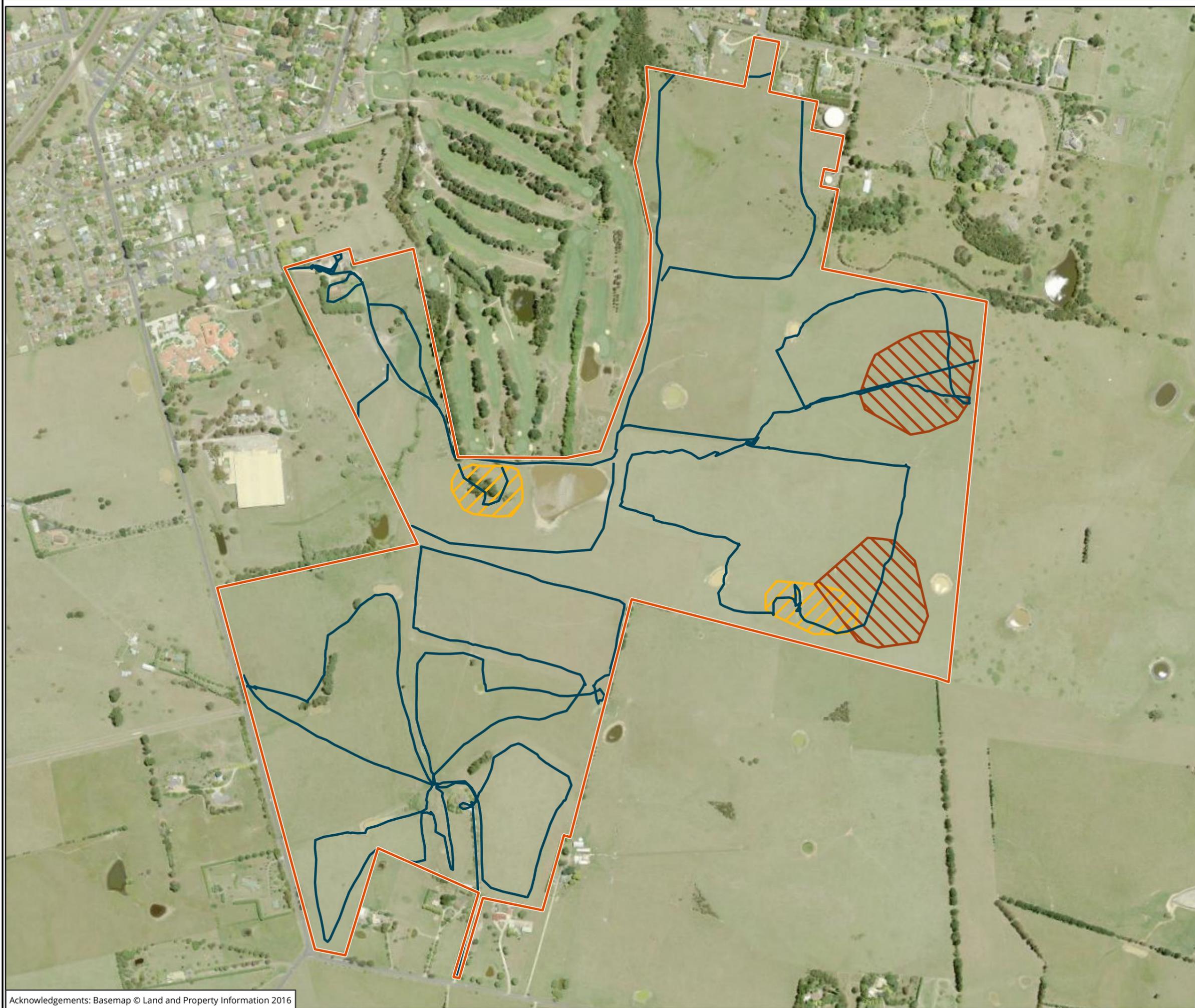
Plate 12 Photo showing plough furrows across the flats and hillslopes of the study area



Plate 13 Disturbances from a dam in study area

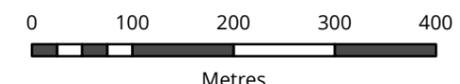
Table 7 Survey coverage

Survey unit	Landform	Survey unit area (m ²)	Effective coverage area (m ²)	Effective coverage (%)	No. of Aboriginal sites	No. of artefacts or features
1	Crest	67406.6	3251.6	4.8	1	30
2	Flat	101023.9	5871.1	5.8	0	0
3	Hillock	11927.9	795.3	6.7	1	90
4	Open depression	162401.9	6162.1	3.8	0	0
5	Saddle	20836.6	788.0	3.8	0	0
6	Simple slope	521311.3	18205.2	3.5	0	0
7	Slope	361869.4	19365.9	5.5	0	0



- Legend**
- Study area
 - Survey tracks
 - Artefact sites
 - Crest landforms

Figure 6 Survey results



Scale: 1:7,000 @ A3
 Coordinate System: GDA 1994 NSW Lambert



Albury, Ballarat, Melbourne,
 Newcastle, Sydney, Wangaratta & Wollongong

Matter: 28011
 Date: 19 July 2019
 Checked by: MJS, Drawn by: JSP, Last edited by: amurray
 Location: P:\28000s\28011\mapping\28011_AR_F7_SurveyResults

4.4 Discussion of archaeological survey results

The assessment of areas of low, moderate or high archaeological potential within the study area was based on a number of factors, including environmental conditions, geomorphological processes, past land use activities, results of previous archaeological studies, surveys and test excavations, and the results of the survey.

The archaeological survey consisted of a meandering transect, which targeted all portions of the study area. The results of the field survey are provided in Figure 7. The previously recorded Aboriginal site AHIMS 52-4-0193 (Chelsea Gardens Locale 1) and 52-4-0194 (Chelsea Gardens Locale 2) were relocated during the archaeological survey.

A possible scarred tree identified in Dibden's (2006) assessment was also relocated on the northern fence line. The tree is an isolated eucalypt with a heavily overgrown scar on the southern side measuring approximately 0.5 metres above ground level and 0.7 metres in length. Dibden (2006) concluded that, although the scar appeared to be cultural in origin, the placement on the original boundary of Throsby Park suggested that it was most likely a surveyor's blaze.

The tree was relocated and assessed as part of the field survey (Plate 14). The tree possessed a number of scars along its length displaying evidence of limb tearing and trauma, including a distinctive triangular scar extending to the ground below the potential cultural scar. This is considered consistent with fire damage. The potential cultural scar did not contain evidence of steel or stone tool marks, and did not reflect evidence of the range of bark removal techniques used by Aboriginal or European people. The scar also did not exhibit the features typical of a surveyor's blaze. It lacked the presence of steel axe marks and reference marks, and did not contain the correct number or orientation of scars in relation to the property boundary that would have been used for corner or boundary marking (Marshall 2004). The scar instead featured a recessed socket with heavy regrowth suggestive of a limb tear. The study area has also been used for cattle grazing, with the area surrounding the tree containing ground disturbances associated with animal trampling. Other trees in the study area also displayed similar scarring consistent with livestock damage and branch tearing. For this reason it is unlikely that this scar is cultural in nature due to its environmental context and lack of definitive features consistent with scarred trees.



Plate 14 Photo of relocated potential scarred tree identified by Dibden (2006)

The majority of the study area consists of a rolling hills landform pattern, characterised by rounded peaks with deep channel incisions; while two areas consist of flat topped hills above undulating shale hills. The Moss Vale Highlands soil landscape occurs over the northern and central portions of the study area and consists of widespread yellow and grey texture-contrast soils, and deep yellow earths on friable sandstone often with concretionary ironstone and accumulations of quartz sand in valleys. The primary geomorphological agents are likely to be sheet wash and aggradation causing a process of erosion. Top soils within the study area were likely formed from material being washed down the slopes where they have accumulated at the base of slopes and within stream channels. Land clearance is likely to have exposed soils and exasperated the effects of sheet wash, potentially eroding away archaeological deposits upon hillslopes and crests.

The initial vegetation removal and repeated ploughing of the ground are the most widespread disturbances within the study area. The impact of ploughing activities on subsurface artefact deposits has been investigated by a number of archaeologists. Odel and Cowan (1987) and Clark and Schofield (1991) undertook experimental studies on the movement of artefacts as a result of ploughing where a known number of stone artefacts were buried in ploughed fields. During the investigations the displacement of artefacts and their condition were recorded after ploughing. It was found that although artefacts were displaced from their original location, the ploughing did not affect the spatial distribution of the sites, concluding that the artefacts would generally remain within the landform where they were initially deposited.

The construction of a large dam would have caused significant disturbance to this part of the study area during its construction. All of these human land use practices have had an influence on site integrity and caused spatial and stratigraphic movements of artefacts. Significant land modifications, such as deep

excavations while constructing the dam, have caused the destruction and removal of cultural material. However, the potential for subsurface artefacts to be present is high and is supported by the results of the test excavation program (Section 5).

The results of the archaeological survey confirm the findings of previous assessments. Dibden's (2006) assessment recorded two sites within the study area; Chelsea Gardens Locale 1 consisted of a low density scatter of eight stone artefacts and Chelsea Gardens Locale 2 consisted of a low density scatter of 11 stone artefacts. Chelsea Gardens Locale 1 is located on a level flat area on the crest of a hill, while Chelsea Gardens Locale 2 is located on level raised areas above the flood zone of the creek line. Total Earth Care's (2007) survey along sections of Stony Creek, 7 kilometres north of the study area, recorded 64 artefacts within similar landforms. All of the PAD sites were located on level raised areas above the flood zone and all of them were considered to have high levels of associated subsurface deposits. The areas where these sites were located was considered a 'significant landscape that was a focus for camping, resource use and travel for Aboriginal people'. Likewise, a survey conducted by Rich (1988) found that sites will be located along minor water courses on elevated dry flat areas and more selectively along rivers where the valley is wide, or where resource areas such as swamps occur. Extensive test excavations conducted by Biosis (2019a) and AMBS (2007) demonstrated that the highest density of artefacts were recovered from alluvial deposits adjacent to drainage lines or on terrace slopes with deep sandy deposits.

5 Test excavation

Following the results of the field survey a test excavation program was undertaken to characterise the extent, nature and archaeological (scientific) value of Aboriginal cultural heritage within identified Aboriginal sites and areas of PAD. The sampling strategy, methodology and results of the test excavation program are discussed below

5.1 Test excavation objectives

The principle objectives of the sub-surface test excavation program was to identify and understand the nature, extent and significance of any subsurface archaeological material located within areas of archaeological sensitivity within the study area. The aims of the testing program are to:

- Determine whether sub-surface archaeological deposits exist which may be impacted upon by the development. If so, to determine the extent and nature of such deposits.
- Identify whether the archaeological material occurs in an intact, undisturbed context, by examining the soil profile and stratigraphy.
- Analyse and interpret any archaeological finds (such as stone artefacts, shell, hearths, knapping floors etc.) recovered during the testing program.
- Inform current knowledge of Aboriginal occupation and land use models of the region.
- Provide management and mitigation measures for Aboriginal archaeological objects identified during the subsurface testing program.

5.2 Test excavation methodology

Test excavations were conducted in accordance with requirement 16a of the Code and conformed to the following methodology:

- Test pits measuring 50 by 50 centimetres will be excavated within the area of high archaeological potential, spaced 20 metres apart.
- Pits will be placed further apart where possible and closer where higher densities are encountered to allow extent testing.
- This approach will ensure an effective sampling of landforms while minimising the amount of excavation actually required.
- Test excavations units must be excavated using hand tools only including spades, handle shovels, and trowels.
- The first test excavation unit within the landform will be excavated and documented in 5 centimetre spits. Based on the evidence of the first excavation unit, 10 centimetre spits or sediment profile/stratigraphic excavation (whichever is smaller) will then be implemented.
- All material excavated from the test excavation units must be dry sieved using 5 millimetre aperture wire-mesh sieves. If the soils encountered are clay, wet sieving will be utilised.

- Test excavation units must be excavated to at least the base of the identified Aboriginal object-bearing units, and must continue to confirm the soils below are culturally sterile.
- All cultural material recovered from the test pits will be collected and brought to the Biosis office at 30 Wentworth Street, Port Kembla for lithic analysis.
- For each test pit that is excavated, the following documentation will be taken:
 - Unique test pit identification number.
 - GPS coordinate of each test pit.
 - Munsell soil colour, texture and pH.
 - Amount and location of cultural material within the deposit.
 - Nature of disturbance where present.
 - Stratigraphy.
 - Archaeological features (if present).
 - Photographic records.
 - Context records.
- Test excavation units must be backfilled as soon as practicable due to safety issues.
- Following test excavation, an AHIMS Aboriginal Site Recording form must be completed and submitted to the AHIMS Registrar as soon as practicable, for each site that has been identified.
- Standard protocol for the discovery of any human remains is to be followed in the event that human remains are discovered.
- Test pits may be combined and excavated as necessary in 50 by 50 centimetre units for the purposes of further understanding site characteristics or in-situ features such as the extent of an area of high artefact density, or where intact Aboriginal archaeological features (knapping floors, hearths etc) may be suspected to be present. Note that under the Code, the maximum area that can be excavated in any one continuous area is 3 metres squared (3m²).

Test excavations can cease when enough information has been recovered to adequately characterise the objects present with regard to their nature and significance within the identified Aboriginal sites and areas of PAD.

5.3 Test excavation results

A total of 49 test pits were excavated within three PADs (Figure 8). Individual test pit and soil analysis results are provided in Appendix 2. Results by PADs are shown in Table 8 and a detailed discussion of results is provided below.

Table 8 Test excavation results by PAD

PAD	Landform	PAD area (m2)	Area tested (m2)	PAD effectively tested (%)	No. of sites	No. of artefacts
1	Hillock	8708	4.5	0.05	1	92
2	Crest	48860	5.25	0.01	1	24
3	Crest	40330	2.5	0.01	1	4

5.3.1 PAD 1

PAD 1 is associated with AHIMS site 52-4-0193 (Chelsea Gardens Locale 1). A total of 18 test pits were excavated at PAD 1 at 20 metres intervals in order to determine the extent and nature of Chelsea Gardens Locale 1. 92 artefacts were identified in 10 test pits (Figure 8). All artefacts were located within silty loam or sandy clay contexts. The majority of the artefacts were encountered in the top three contexts, between 0 and 300 millimetres in depth, with artefact occurrence decreasing past this point.

Soil stratigraphy varied across PAD 1. In the northern portion of the PAD, test pits typically had two or three contexts that consisted of a dark greyish brown sandy silt present to between 80 and 180 millimetres, which overlaid a yellowish brown sandy clay that was present to approximately 220 millimetres. Below this context was a yellowish brown sandy clay present to between 300 and 400 millimetres with a high percentage of ironstone (50-60%) inclusions (Plate 15). In the southern portion of the PAD, the test pits had two contexts that consisted of a very dark greyish brown sandy silt present to approximately 200 millimetres which overlaid a yellowish brown sandy clay that was present to approximately 300 millimetres. The soil profiles in this portion of the PAD were clearly disturbed and likely a result of continuous ploughing and the creation of furrows.



Plate 15 Test pit 3 within PAD 1 showing representative soil profiles within hillock landform

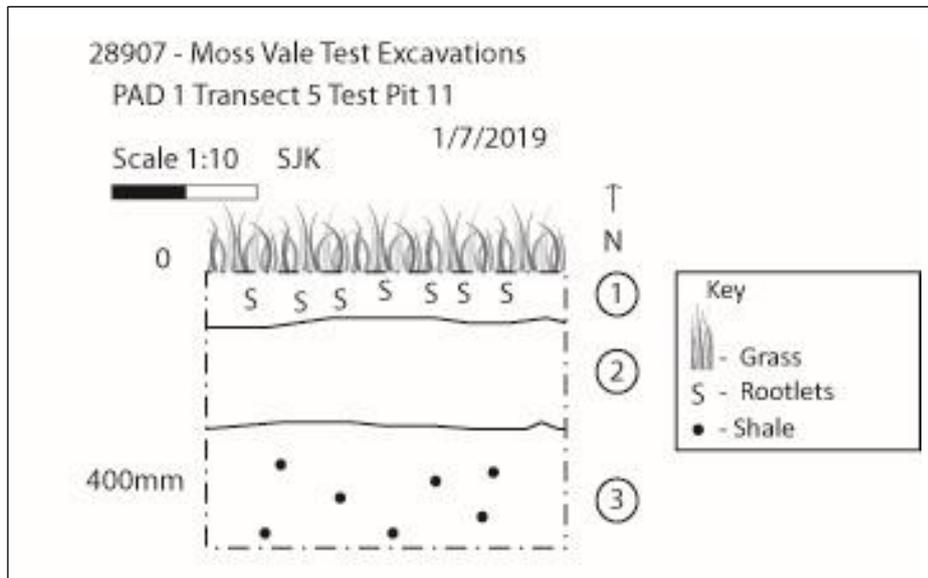


Plate 16 PAD 1, test pit 11 showing different stratigraphic profiles of the hillock landform

5.3.2 PAD 2

PAD 2 is associated with AHIMS site 52-4-0194 (Chelsea Gardens Locale 2). A total of 21 test pits were excavated at PAD 2 at 20 metres intervals in order to determine the extent and nature of Chelsea Gardens Locale 2. Test pits outside of the site extent of Chelsea Gardens Locale 2 were placed at intervals of 40 metres. 24 artefacts were identified in 5 test pits (Figure 8). All artefacts were located within silty loam or sandy clay contexts. The majority of the artefacts were encountered in the top three contexts, between 0 and 300 millimetres in depth, with artefact occurrence decreasing past this point.

Soil stratigraphy varied across PAD 2. Within the portion of the PAD associated with Chelsea Gardens Locale 2, test pits typically had three or four contexts that consisted of a very dark brown clayey loam present to between 100 and 200 millimetres, which overlaid a dark brown loamy clay that was present to approximately 300 millimetres. Below this context was a strong brown sandy clay present to between 300 and 400 millimetres with a varying percentages of ironstone inclusions (Plate 17). In the eastern portion of the PAD outside the site extent of Chelsea Gardens Locale 2, the test pits had two contexts that consisted of a very dark brown clayey loam present to approximately 200 millimetres which overlaid a dark yellowish brown sandy clay that was present to approximately 400 millimetres.



Plate 17 Test pit 2, transect 2 within PAD 2 showing representative soil profiles within crest landform

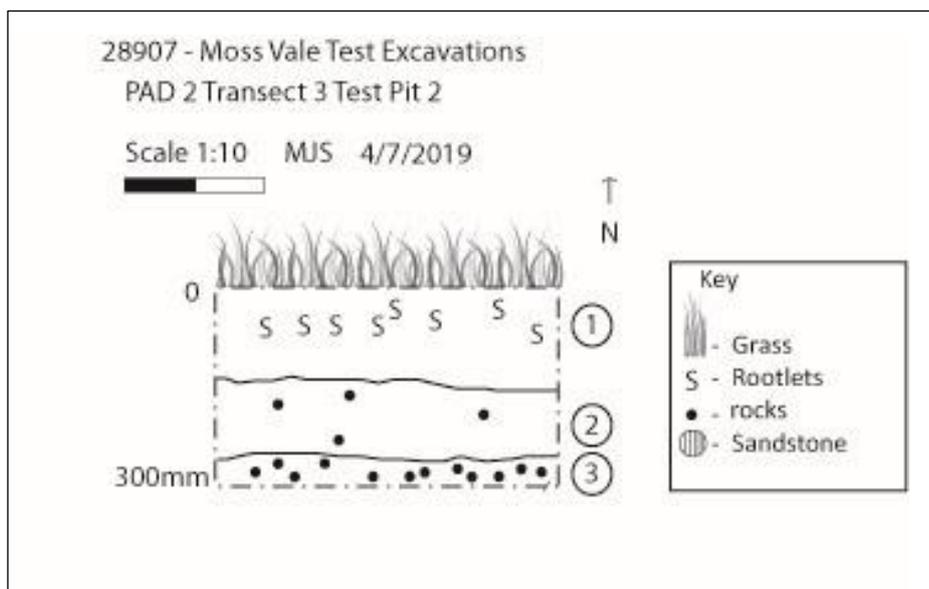


Plate 18 PAD 2, transect 3, test pit 2 showing different stratigraphic profiles of the crest landform

5.3.3 PAD 3

PAD 3 is associated with a crest landform in the northeast corner of the study area. A total of 10 test pits were excavated at PAD 3 at 40 metres intervals in order to determine the extent and nature of archaeological deposits. Four artefacts were identified in one test pit (Figure 8). All artefacts were located within silty loam or sandy clay contexts. The artefacts were encountered in context four, between 300 and 400 millimetres in depth, with artefact occurrence decreasing past this point.

Soil stratigraphy was relatively consistent across PAD 3. Test pits typically had two or three contexts that consisted of a dark brown clayey loam present to between 100 and 200 millimetres, which overlaid a strong brown sandy clay that was present to approximately 300 to 400 millimetres. Below this context was a dark yellowish brown sandy clay present to between 400 and 600 millimetres with a varying percentages of ironstone inclusions (Plate 19).



Plate 19 Test pit 3, transect 1 within PAD 3 showing representative soil profiles within crest landform

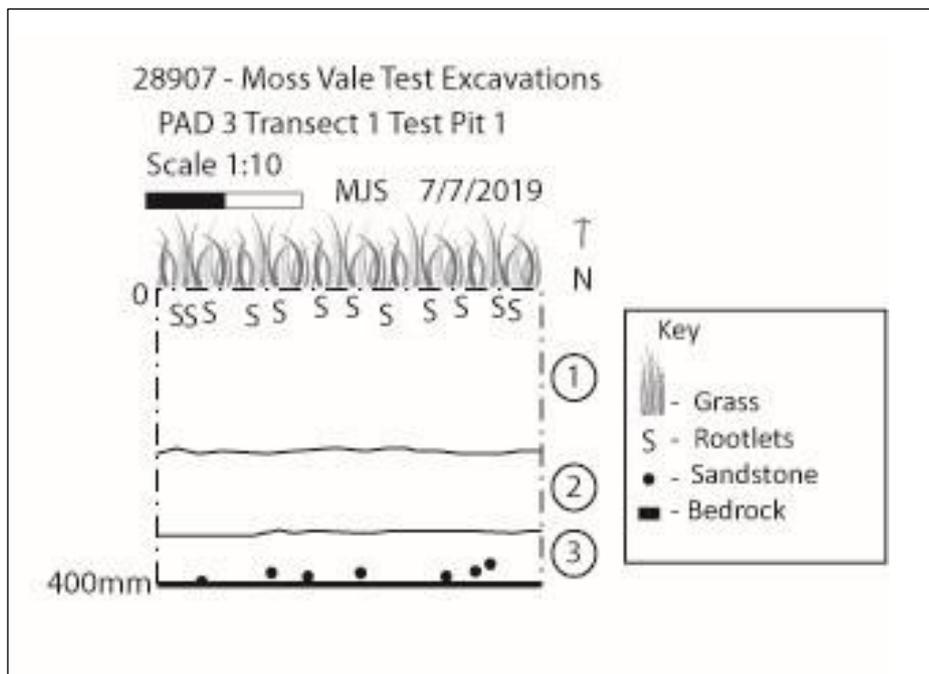
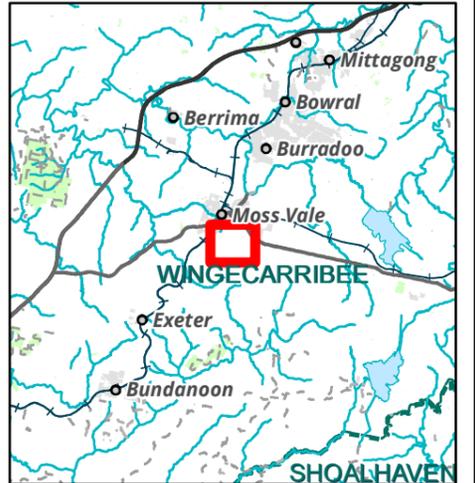
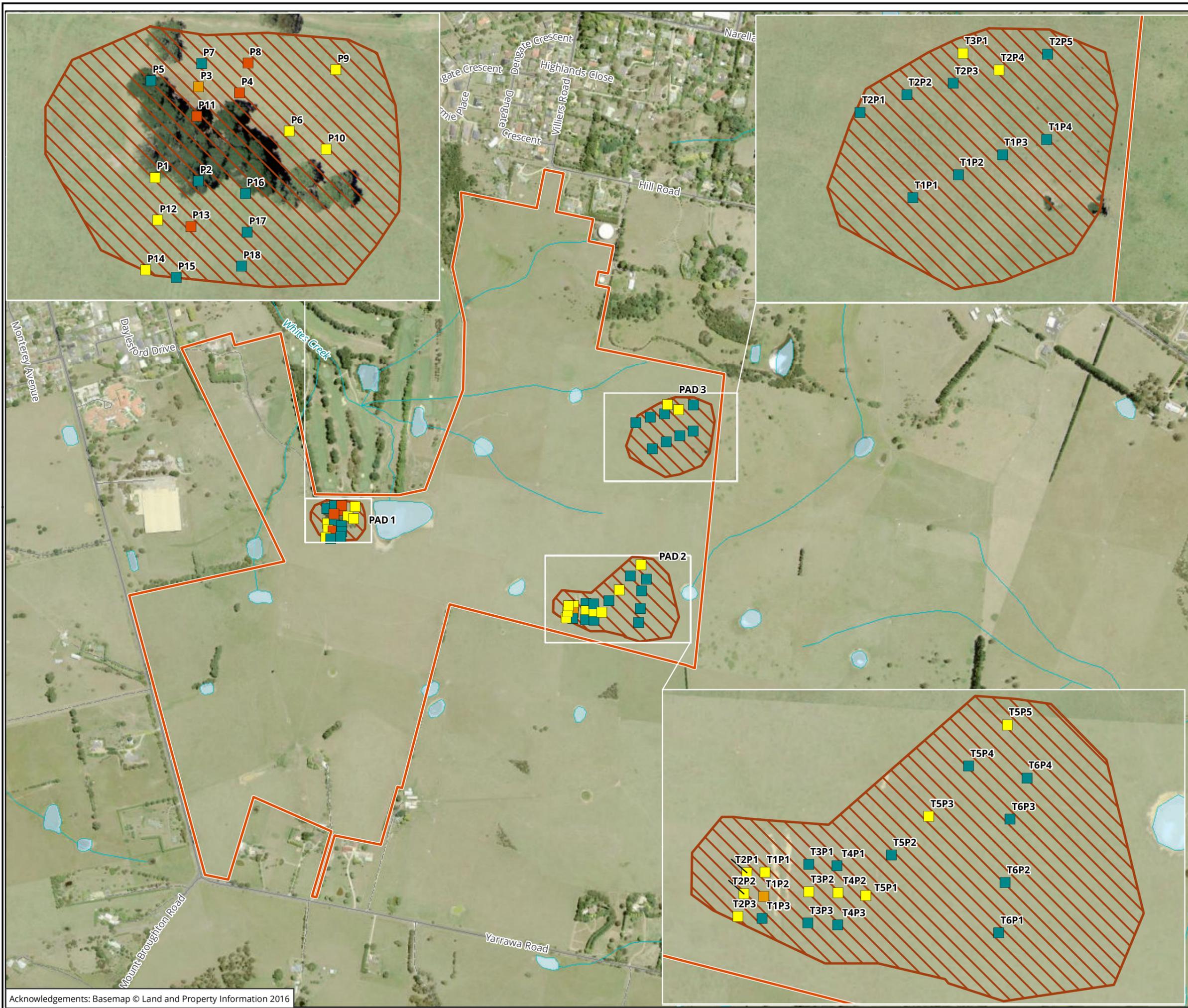


Plate 20 PAD3, transect 1, test pit 1 showing different stratigraphic profiles of the crest landform



Legend

- Study area
- Potential Archaeological Deposit (PAD)

No. of artefacts

- 0
- 1 - 5
- 6 - 10
- 11 - 20

Figure 8 Test excavation results

0 100 200 300 400 500
Metres

Scale: 1:9,000 @ A3
Coordinate System: GDA 1994 NSW Lambert

biosis
Biosis Pty Ltd

Albury, Ballarat, Melbourne,
Newcastle, Sydney, Wangaratta & Wollongong

Matter: 28011
Date: 30 July 2019,
Checked by: SJK, Drawn by: AEDM, Last edited by: amurray
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6 Artefact analysis

The following analysis has been undertaken for the sub-surface artefacts identified during test excavation within the study area. A total of 120 artefacts were identified during the test excavation program. The analysis addresses a series of themes which seek to understand when and how stone was procured, worked and distributed within the overall study area:

- Artefact assemblage composition.
- Artefact size and distribution.
- Stone raw material procurement.
- Flake analysis.
- Tool analysis.

6.1 Analysis methodology

Stone artefacts from the excavation program were recorded and analysed in the Biosis offices at Wollongong. Artefacts were individually analysed and recorded in an excel spread sheet developed by Biosis for the collection of artefact data. The excel sheet contains categories that allow the recorder to capture all relevant artefact attributes; this way a comprehensive typological, technological and metrical analysis of the assemblage can be undertaken. Analysis of the assemblage was undertaken using of a standard digital vernier caliper and a 10x hand lens. All measurements were recorded in millimetres to two decimal places. Appendix 3 contains the detailed sub-surface lithics recordings.

The analysis of the test pit excavations has been undertaken both individually and as a whole assemblage. This method allows comparisons to be made between this assemblage and other nearby assemblages and also allows attempts to determine past land use of the study area.

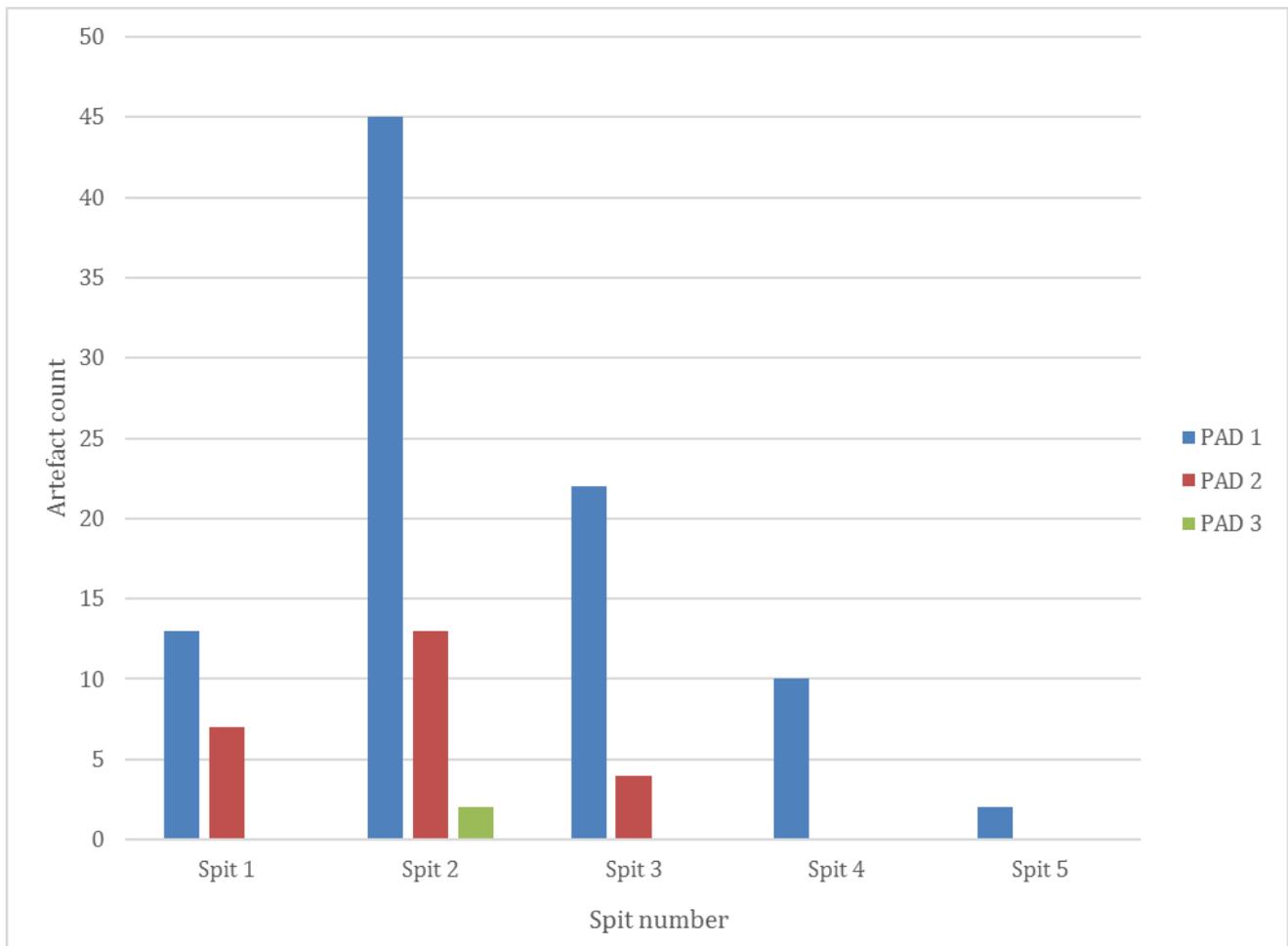
6.2 Sub-surface stone artefact analysis

A total of 120 artefacts from 49 test pits were recorded from the sub-surface excavations (Table 9). The highest density of artefacts were recorded in PAD 1, associated with AHIMS 52-4-0194/Chelsea Gardens Locale 2, which contained 77.97% of recorded artefacts. The second highest density of artefacts occurred in PAD 2 (AHIMS 52-4-0193/Chelsea Gardens Locale 1), which contained 20.34% of recorded artefacts. PAD 3 (AHIMS 52-4-0689/Chelsea Gardens Locale 3) contained the lowest density of artefacts, accounting for just 1.69% of recorded artefacts.

Table 9 Artefact count

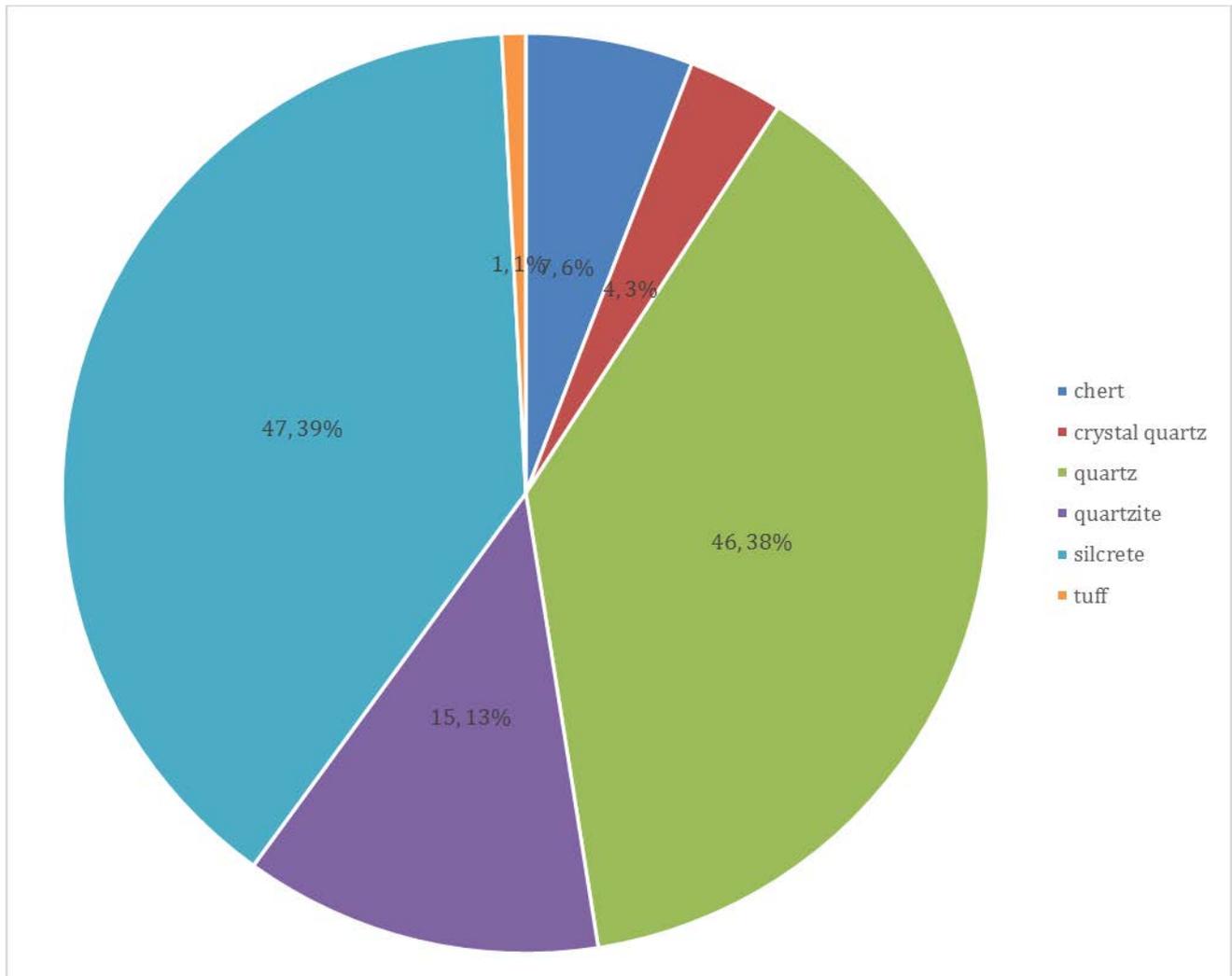
PAD	Artefact count	Percentage (%)
1	92	76.67
2	24	20.00
3	4	3.33
Grand Total	120	100

The concentration of artefacts by spit shows similar trends across all three PAD areas. The highest proportion of artefacts are identified in spit 2 for all areas of PAD, with artefact counts dropping off above and below this spit. This would suggest that the period of occupation was focused around the deposition of soils in spit 2.



Graph 5 Artefact counts by spit

A total of 6 different raw material types were recorded across the study area. Silcrete was the most recorded raw material, accounting for 39.17% (n=47) of the total assemblage (Graph 6), followed close behind by quartz making up 38.33% (n=46) of the assemblage. Quartzite (12.5%), chert (5.83%), crystal quartz (3.33%) and tuff (0.83%) were also recorded within the study area.



Graph 6 Raw materials in the study area

The cortex (weathered exterior of a rock) provides information about the origin of stone sources. Artefacts with a rough cortex were acquired from a primary source, such as an *in situ* outcrop. Artefacts with a smooth or water-rolled cortex originate from a secondary source, such as a river cobble from a waterway. The amount of cortex on an artefact often indicates the distance artefacts were transported from the source (Hiscock & Mitchell 1993, pp.12–17). A high percentage of cortex on an artefact often indicates that the source of stone was nearby, while artefacts with less cortex or no cortex were transported further from the source. As cores are transported away from the source they are typically highly reduced and the flakes from these cores are smaller.

The majority of artefacts within this assemblage contained almost no cortex, with 99.17% of the assemblage without cortex and the remaining 0.83% containing less than 66% remaining cortex (Table 10). This indicated a highly reduced assemblage and suggests that artefacts present in the study area have been transported to the site having already undergone primary reduction. This could also indicate that raw materials are being transported some distance from the raw material procurement locations.

Table 10 Percentage of cortex on artefacts

Amount of cortex (%)	Artefact count	Percentage (%)
0	119	99.17

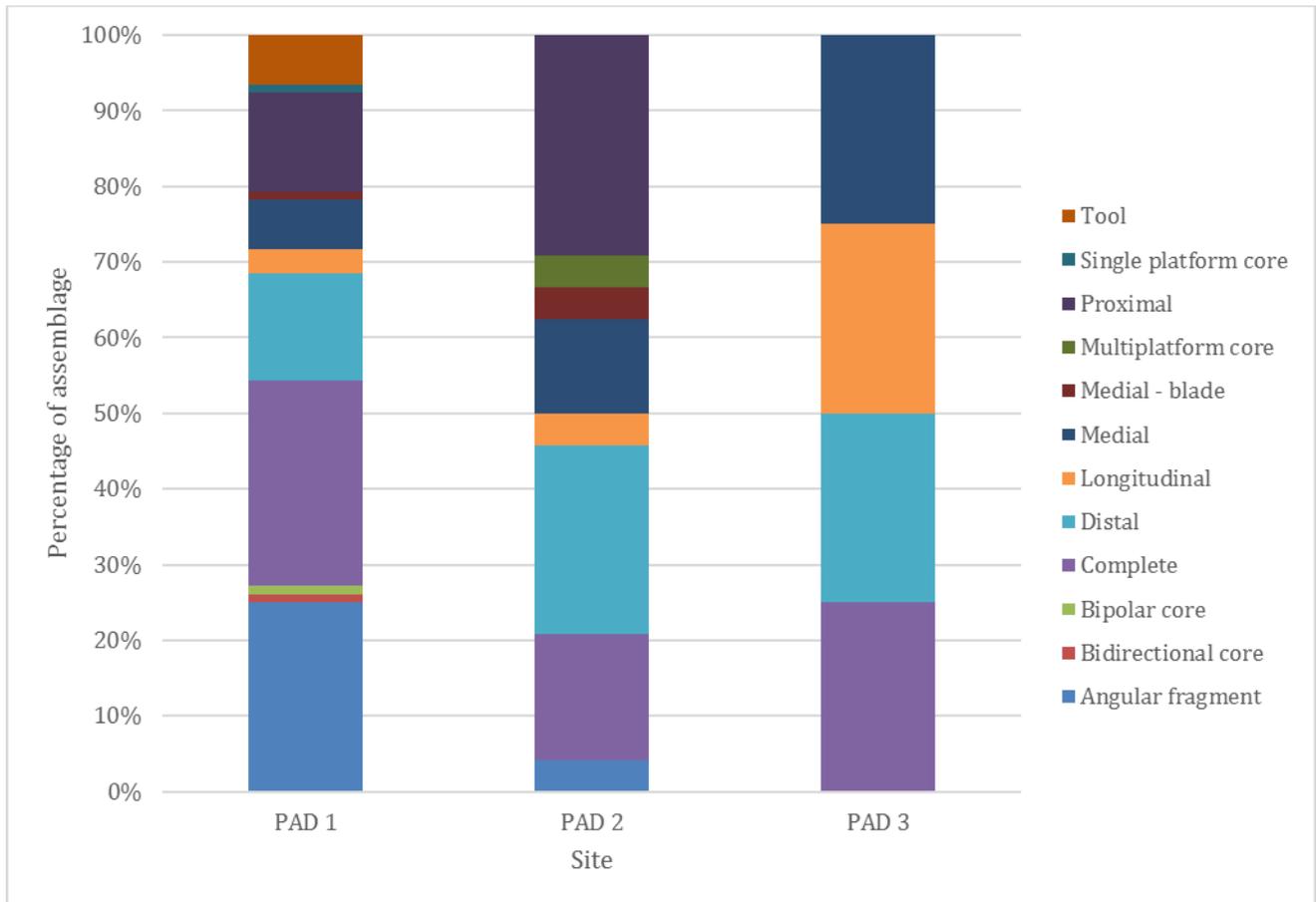
Amount of cortex (%)	Artefact count	Percentage (%)
1-32	0	0
33-66	1	0.83
67-99	0	0
100	0	0
Total	120	100

A review of artefact types within the study area shows that complete flakes were the most commonly recorded artefact type, accounting for 25% of the assemblage (Table 11). Angular fragments (20%), followed by distal (16.67%) and proximal fragments (18.83%) were the next most common artefact types recorded. The assemblage also contained 12 (10%) medial fragments, 6 tools (5%), 5 longitudinal fragments (4.17%), and one each of bidirectional, bipolar, multiplatform and single platform cores (0.83% each).

Table 11 Artefact types

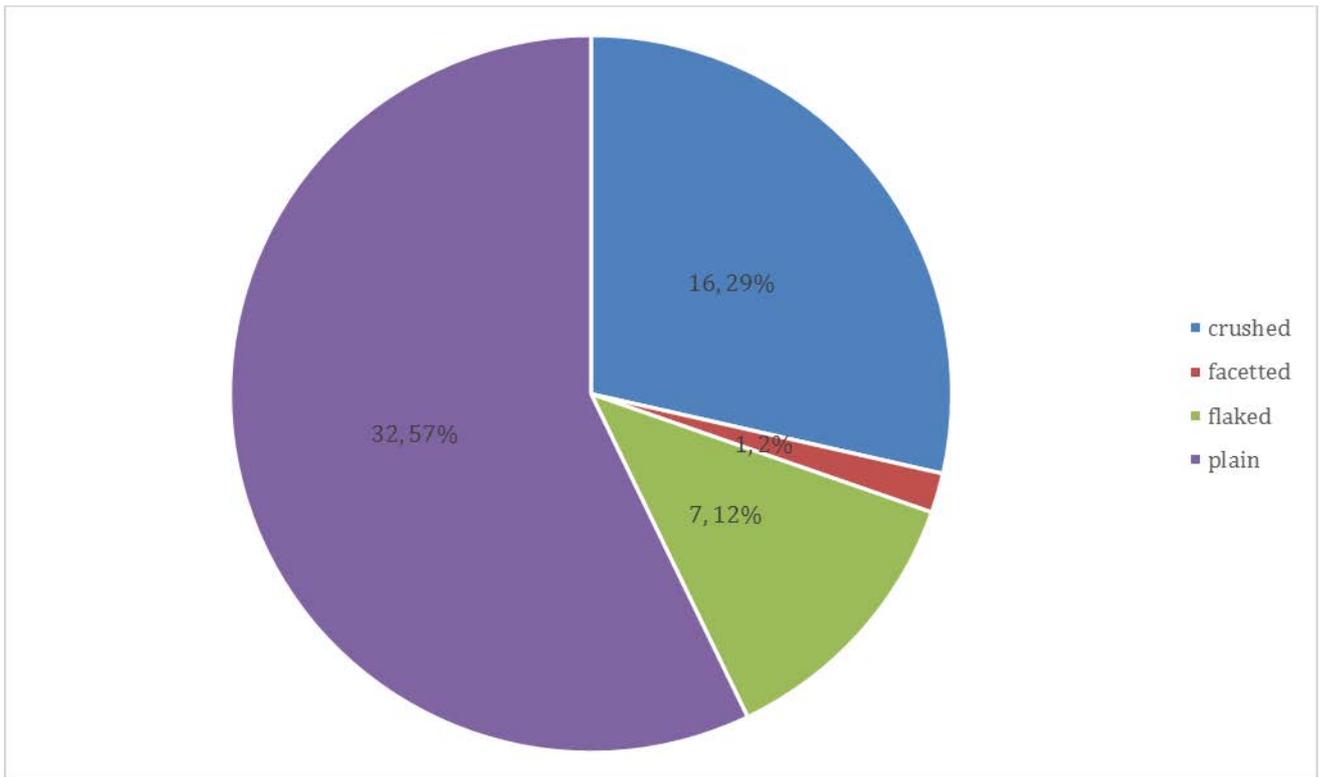
Artefact type	PAD 1	PAD 2	PAD 3	Entire study area
Angular fragment	23	1	-	24
Bidirectional core	1	-	-	1
Bipolar core	1	-	-	1
Complete	25	4	1	30
Distal	13	6	1	20
Longitudinal	3	1	1	5
Medial	6	3	1	10
Medial - blade	1	1	-	2
Multiplatform core	-	1	-	1
Proximal	12	7	-	19
Single platform core	1	-	-	1
Tool	6	-	-	6
Total	92	24	4	120

The distributions of artefact types by PAD shows that the most diverse assemblage was present within PAD 1, containing 11 out of the 12 identified artefact types (Graph 7). PAD 1 was the only site to contain tools, a single platform core, bipolar core, and a bidirectional blade core; however, it did not contain any multidirectional cores. PAD 2 had the second highest diversity of artefact types, containing 8 out of the 12 identified artefact types. PAD 2 was the only site to contain a multiplatform core and also contained the highest proportion of proximal fragments to other artefact types; however, this site did not contain any tool types. PAD 3 contained the least diverse assemblage, with 4 out of the 12 artefact types present. This site contained one distal, complete, medial and longitudinal flake type and did not contain any cores, angular fragments, or tools, suggesting no artefact manufacture was occurring at this location.



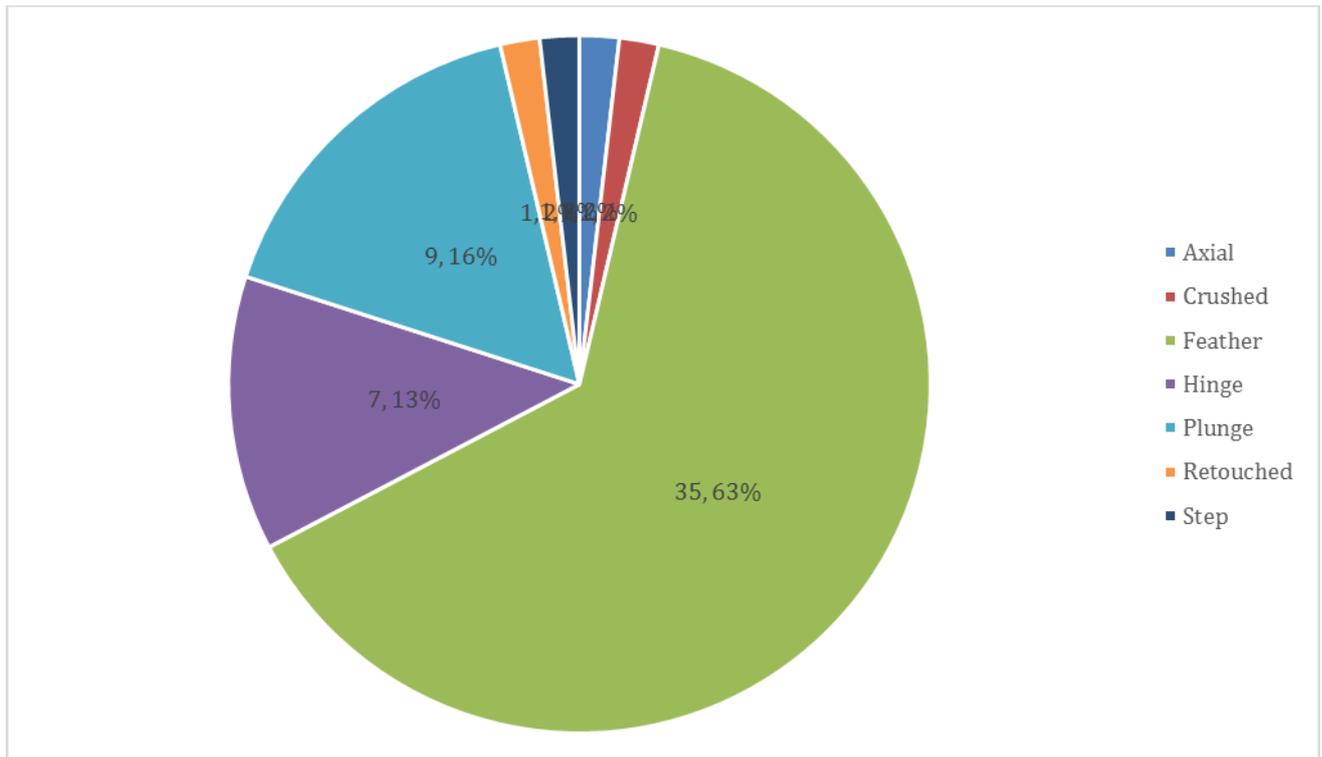
Graph 7 Proportions of artefact types by PAD

A breakdown of the platform types present within the artefact assemblage is shown in below (Graph 8). Flake platform types are useful in determining the methods of stone tool reduction, and the manner in which a core was utilised by Aboriginal people (Holdaway & Stern 2004, p.119). The most prevalent platform type within this assemblage are plain platforms, which contain no flake scars on the surface (57.14%, n=32), followed by crushed platforms (28.57%, n=16), and flaked platforms containing 1-2 flake scars (12.5%, n=7). Faceted platforms containing for than 2 flake scars were also recorded, making up the remaining 1.79% (n=1) of the assemblage platform types.



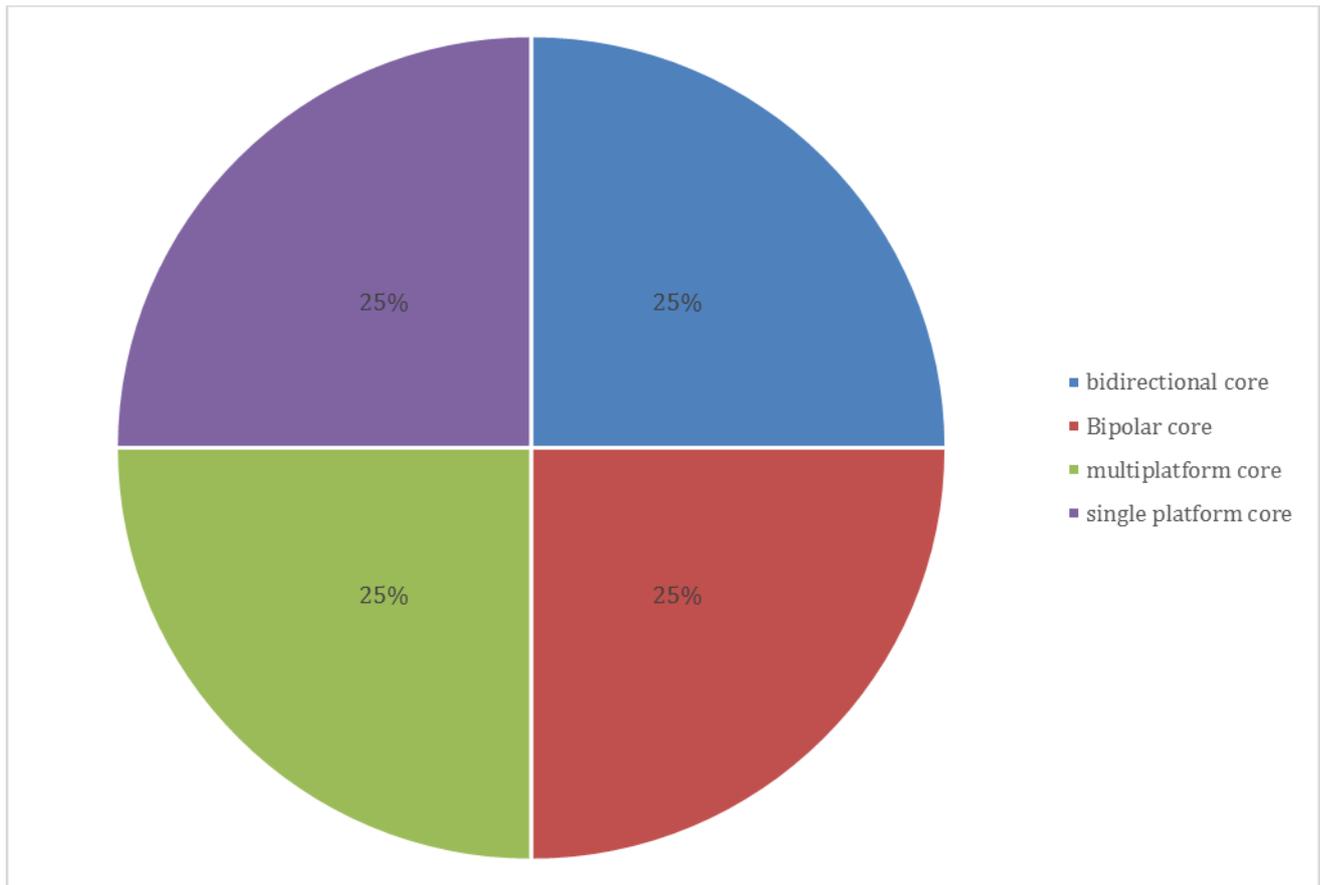
Graph 8 Platform types in the study area

The dominant termination type within the assemblage is feather terminations, making up 63.64% (n=35) of terminations (Graph 9). Feather terminations are achieved when the knapper has struck the core at an appropriate distance from the core edge with the appropriate amount of force, meaning the knapper is showing some degree of control in the process (Holdaway & Stern 2004, p.132). Plunge (16.36%, n=9) then Hinge (12.73%, n=7) terminations are the next most prevalent termination types within the assemblage, and generally represent knapping “failures” as these termination types occur when the incorrect application of force is applied to a core during reduction. Crushed, axial, step and retouch terminations make up the remaining 7.27% of flake terminations present in the assemblage, each occurring once (1.82%, n=1 each).



Graph 9 Termination types in the study area

Analysis of cores across the study area shows that 75% (n=3) of all cores were found in PAD 1, with one core (25%) also identified in PAD 2. No cores were identified in PAD 3. The core assemblage was evenly spread across single platform, multiplatform, bipolar and bidirectional cores all occurring once in the assemblage (Graph 10).



Graph 10 Core types in the study area

Artefacts exhibiting distinctive technical and morphological groupings, known as tools, were identified in PAD 1 only. These tools were broken up into 5 types, with asymmetric backed artefacts occurring twice (33.33%), and Bondi points, geometric microliths, steep edged scrapers and a backed artefact fragment all occurring once (16.67%) (Table 12). When combined, backed artefacts (bondi points, asymmetric, geometric and fragments) made up the most prevalent tool type and it is possible these tools were being manufactured at PAD 1. Backed artefact manufacture will inevitably result in a high number of transversely broken flakes with backing present (Hiscock 1994, McBryde 1986). Once such fragment occurs within PAD 1 suggesting that backed artefact production could have occurred on site; however, the assemblage is too small to definitively determine if this is the case or whether the backed artefact fragment is a result of breakage and discard during its use life or a result of post depositional fragmentation.

Table 12 Tool types in PAD 1

Tool type	Tool count	Percentage (%)
Asymmetric backed artefact	2	33.33
Bondi point	1	16.67
Geometric microlith	1	16.67
Steep edged scraper	1	16.67
Backed artefact fragment	1	16.67
Total	6	100

In order to account for breakage within the artefact assemblage the number of artefactual specimens (NAS) and the minimum number of flakes (MNF) has been calculated (Holdaway & Stern 2004, p.15). The NAS to MNF ratio has been calculated in Table 13 to determine the level of fragmentation at each site.

The fragmentation ratio at PAD 1 is close to 1 indicating that very minimal fragmentation has occurred at this site, while the fragmentation ratio at PAD 2 is close 0.5 suggesting fragmentation has occurred much more intensively at this site. PAD 3 also contained a low fragmentation ratio; however, the limited sample size at this site is likely a factor in this small ratio.

The ratio of proximal to distal fragment was also calculated to determine the level of recorder error. The proximal flakes to distal flakes within an assemblage should be approximately 1:1 and deviations from this ratio can often indicate misidentification of complete artefacts with step terminations; or that breakage discard within the artefact assemblage differs from standard site assemblages.

The ratio of proximal to distal flakes within the salvage excavation assemblage is approximately 0.95:1. This ratio is almost 1:1 suggesting that the recorder has correctly identified artefacts within the assemblage and that the assemblage is representative of a standard discard pattern.

Table 13 Artefact fragmentation ratios

Artefact type	PAD 1	PAD 2	PAD 3	Whole study area
NAS	59	22	4	85
MNF	52.5	11.5	2.5	52.5
NAS:MNF Ratio	1:0.89	1:0.52	0.62	0.62

6.3 Discussion

The results of the current test excavations have revealed a varying density of artefacts over the study area. Excavations at PAD 1 (AHIMS 52-4-0194/Chelsea Gardens Locale 2) identified a total of 92 artefacts with a density of 20.44 artefacts per square metre. The highest density of artefacts were seen in the centre of this site at P3, P11 and P4 and P8, with much lower densities occurring on the edges of the site consistent with a site boundary or background scatter. The artefacts at PAD 1 also contained the highest diversity of form, with all six tools identified in the study area occurring at this site, as well as four out of the five recorded cores. PAD 2 (AHIMS 52-4-0193/Chelsea Gardens Locale 1) contained the second highest number of artefacts containing 24 artefacts or a density of 4.57 artefacts per square metre. This represents a low density artefact scatter and the diversity of artefacts was also smaller at this site, with no tools and only a single multi-platform core identified. PAD 3 (Chelsea Gardens Locale 3) contained the lowest number of artefacts, with four in total identified at this site, accounting for an artefact density of just 1.6 artefacts per square metre. The diversity of artefact types at this site was also the lowest, with no tools or cores identified.

Looking at the makeup of tools and cores in the study area, backed artefacts and scrapers were the only artefact types identified in the study area. While single platform, bipolar, bidirectional and multiplatform cores were all identified.

Geometric microliths and Bondi points, along with tools such as thumbnail scrapers, are generally considered to belong to the Australian small tool tradition and are commonly featured in Holocene sites dating to the last 5,000 years in Australia (Holdaway & Stern 2004, p.260, Hiscock 1994, p.267). Attempts to further refine the date of the appearance and disappearance of backed artefacts in the archaeological record in Australia have been made by a number of archaeologists (Attenbrow et al. 2009, Attenbrow 2004, Flood 1980, Hiscock 1994). Excavations conducted at Warraty rockshelter in South Australia identified three backed artefacts dating to

between 30,000 and 24,000 BP (Hamm et al. 2016, p.280), while excavations conducted at Serpents Glen rockshelter (Karnatukul) in the Canarvon Ranges in Western Australia identified the earliest evidence of backed artefact use in Australia at 45,570 to 41,650 BP (McDonald et al. 2018, p.1). A number of other archaeological sites dating to the Pleistocene period have also produced evidence of backed artefact usage across Australia (Slack et al. 2004). Evidence from Serpents Glen rock shelter suggests that while backed artefacts were used during the Pleistocene period, the use and production of backed artefacts increased substantially during the Holocene period (McDonald et al. 2018, p.22).

The earliest evidence of backed artefacts in South Eastern Australia dates to 8,500 BP (Attenbrow et al. 2009). Current archaeological evidence indicates the occurrence of backed artefacts in Aboriginal archaeological assemblages in South Eastern Australia increased significantly from the mid Holocene (around 4000 – 3500 BP) (White 2011, Attenbrow et al. 2009, Attenbrow 2004, Flood 1980). According to Flood (1980), the earlier Australian core tool and scraper tradition was phased out by around 5,500 years BP and was subsequently replaced by the Australian small tool tradition. Flood further argued that there are three phases of the Australian small tool tradition (Early, Middle, and Late). The middle phase is characterised by an increase in backed blades and thumbnail scrapers, while retouched artefacts and other small tools decreased in occurrence during the Late phase (Flood 1980, pp.250–3). Bipolar quartz flaking was also considered typical of the Late phase (Flood 1980, pp.250–3). Flood posited that the late phase dates to around 770 years BP; however, she noted that backed blades had been recorded in deposits dating between 510 -310 years BP (Flood 1980, pp.250–3). Excavations conducted at Upper Mangrove Creek, NSW (Attenbrow et al. 2009, p.2765, Attenbrow 2004), and at Lake George, NSW (Hughes et al. 2014) also appear to support Flood's small tool tradition phases. Further examination of the backed artefacts identified at Upper Mangrove Creek suggested there are three phases of backed artefact use that demonstrates a marked increase of use and production from 3,300 – 1,970 BP (Attenbrow et al. 2009, p.2768).

This sequence has more recently been examined and argued to be inaccurate in temporal and regional phasing (Mulvaney & Kaminga 1999). Instead, the "Australian Small Tool Tradition" has been suggested for an alternative model that purports site intensification supported by greatly increased artefact discard from 5,000-2000 BP (Hiscock 1986, Attenbrow 1987). The cause for this change remains unclear but increased population, environmental change associated with the stabilisation of sea levels and associated coastal/estuarine resource establishment, or the development of new technologies have all been suggested. However, critics argue that this model may also be too simplistic, as more recent work has identified continuing or decreasing artefact discard in this same time period (Boot 1996).

The differences in artefact densities and diversity suggest a variation in the use of the site that could be attributed to location preferences. AHIMS 52-4-0194/Chelsea Gardens Locale 2 contained the highest density of artefacts including tools and cores, suggesting it was the favoured loci for occupation in the study area. This site was located on a small hillock landform and was located closest to the original pathway of Whites Creek where it would have provided easiest access to resources. AHIMS 52-4-0193/Chelsea Gardens Locale 1 contained a lower density of artefacts and artefact diversity and was located on a hill crest at the base of Park Leigh Hill. This site was located further from Whites Creek and would not have provided as easy access to resources as AHIMS 52-4-0194/Chelsea Gardens Locale 2. The lower density and diversity of this assemblage could suggest this site was used as a secondary camp site location, possibly during times of flooding, as the hill crest landform provided greater elevation than the hillock at AHIMS 52-4-0194/Chelsea Gardens Locale 2. AHIMS 52-4-0689/Chelsea Gardens Locale 3 contained the lowest density and most limited diversity of artefacts in the study area. The deposit at this location consisted of background scatter and it is likely artefacts were discarded during travel through the area rather than during periods of short or long term occupation.

The results of these test excavations have confirmed the predictive modelling undertaken for this assessment and fit into the results of previous assessments in the area. Artefacts were the most prevalent site type

identified in the study area, with the highest density of artefacts occurring closest to sources of water on flat elevated landforms (Rich 1988, Total Earth Care 2007).

7 Scientific values and significance assessment

The two main values addressed when assessing the significance of Aboriginal sites are cultural values to the Aboriginal community and archaeological (scientific) values. This report will assess scientific values while the ACHA report will detail the cultural values of Aboriginal sites in the study area.

7.1 Introduction to the assessment process

Heritage assessment criteria in NSW fall broadly within the significance values outlined in the Australia International Council on Monuments and Sites (ICOMOS) Burra Charter (Australia ICOMOS 2013). This approach to heritage has been adopted by cultural heritage managers and government agencies as the set of guidelines for best practice heritage management in Australia. These values are provided as background and include:

- **Historical significance** (evolution and association) refers to historic values and encompasses the history of aesthetics, science and society, and therefore to a large extent underlies all of the terms set out in this section. A place may have historic value because it has influenced, or has been influenced by, an historic figure, event, phase or activity. It may also have historic value as the site of an important event. For any given place the significance will be greater where evidence of the association or event survives in situ, or where the settings are substantially intact, than where it has been changed or evidence does not survive. However, some events or associations may be so important that the place retains significance regardless of subsequent treatment.
- **Aesthetic significance** (Scenic/architectural qualities, creative accomplishment) refers to the sensory, scenic, architectural and creative aspects of the place. It is often closely linked with social values and may include consideration of form, scale, colour, texture, and material of the fabric or landscape, and the smell and sounds associated with the place and its use.
- **Social significance** (contemporary community esteem) refers to the spiritual, traditional, historical or contemporary associations and attachment that the place or area has for the present-day community. Places of social significance have associations with contemporary community identity. These places can have associations with tragic or warmly remembered experiences, periods or events. Communities can experience a sense of loss should a place of social significance be damaged or destroyed. These aspects of heritage significance can only be determined through consultative processes with local communities.
- **Scientific significance** (Archaeological, industrial, educational, research potential and scientific significance values) refers to the importance of a landscape, area, place or object because of its archaeological and/or other technical aspects. Assessment of scientific value is often based on the likely research potential of the area, place or object and will consider the importance of the data involved, its rarity, quality or representativeness, and the degree to which it may contribute further substantial information.

The cultural and archaeological significance of Aboriginal and historic sites and places is assessed on the basis of the significance values outlined above. As well as the ICOMOS Burra Charter significance values guidelines, various government agencies have developed formal criteria and guidelines that have application when assessing the significance of heritage places within NSW. Of primary interest are guidelines prepared by the Commonwealth Department of the Environment and Energy and DPIE,. The relevant sections of these guidelines are presented below.

These guidelines state that an area may contain evidence and associations which demonstrate one or any combination of the ICOMOS Burra Charter significance values outlined above in reference to Aboriginal heritage. Reference to each of the values should be made when evaluating archaeological and cultural significance for Aboriginal sites and places.

In addition to the previously outlined heritage values, the OEH Guidelines (OEH 2011) also specify the importance of considering cultural landscapes when determining and assessing Aboriginal heritage values. The principle behind a cultural landscape is that ‘the significance of individual features is derived from their inter-relatedness within the cultural landscape’. This means that sites or places cannot be ‘assessed in isolation’ but must be considered as parts of the wider cultural landscape. Hence the site or place will possibly have values derived from its association with other sites and places. By investigating the associations between sites, places, and (for example) natural resources in the cultural landscape the stories behind the features can be told. The context of the cultural landscape can unlock ‘better understanding of the cultural meaning and importance’ of sites and places.

Although other values may be considered – such as educational or tourism values – the two principal values that are likely to be addressed in a consideration of Aboriginal sites and places are the cultural/social significance to Aboriginal people and their archaeological or scientific significance to archaeologists. The determinations of archaeological and cultural significance for sites and places should then be expressed as statements of significance that preface a concise discussion of the contributing factors to Aboriginal cultural heritage significance.

7.2 Archaeological (scientific significance) values

Archaeological significance (also called scientific significance, as per the ICOMOS Burra Charter) refers to the value of archaeological objects or sites as they relate to research questions that are of importance to the archaeological community, including indigenous communities, heritage managers and academic archaeologists. Generally the value of this type of significance is determined on the basis of the potential for sites and objects to provide information regarding the past life-ways of people (Burke & Smith 2004, p.249, NPWS 1997). For this reason, the NPWS summarises the situation as ‘while various criteria for archaeological significance assessment have been advanced over the years, most of them fall under the heading of archaeological research potential’ (NPWS 1997, p.26). The NPWS criteria for archaeological significance assessment are based largely on the ICOMOS Burra Charter.

Research potential

Research potential is assessed by examining site content and site condition. Site content refers to all cultural materials and organic remains associated with human activity at a site. Site content also refers to the site structure – the size of the site, the patterning of cultural materials within the site, the presence of any stratified deposits and the rarity of particular artefact types. As the site contents criterion is not applicable to scarred trees, the assessment of scarred trees is outlined separately below. Site condition refers to the degree of disturbance to the contents of a site at the time it was recorded.

The site contents ratings used for archaeological sites are shown in Table 14, and the site condition ratings in Table 15.

Table 14 Site content ratings

Rating	Description
0	No cultural material remaining.

Rating	Description
1	Site contains a small number (e.g. 0–10 artefacts) or limited range of cultural materials with no evident stratification.
2	Site contains a larger number, but limited range of cultural materials; and/or some intact stratified deposit remains; and/or are or unusual example(s) of a particular artefact type.
3	Site contains a large number and diverse range of cultural materials; and/or largely intact stratified deposit; and/or surface spatial patterning of cultural materials that still reflect the way in which the cultural materials were deposited.

Table 15 Site condition ratings

Rating	Description
0	Site destroyed.
1	Site in a deteriorated condition with a high degree of disturbance; lack of stratified deposits; some cultural materials remaining.
2	Site in a fair to good condition, but with some disturbance.
3	Site in an excellent condition with little or no disturbance. For surface artefact scatters this may mean that the spatial patterning of cultural materials still reflects the way in which the cultural materials were laid down.

Pearson and Sullivan (1995, p.149) note that Aboriginal archaeological sites are generally of high research potential because ‘they are the major source of information about Aboriginal prehistory’. Indeed, the often great time depth of Aboriginal archaeological sites gives them research value from a global perspective, as they are an important record of humanity’s history. Research potential can also refer to specific local circumstances in space and time – a site may have particular characteristics (well preserved samples for absolute dating, or a series of refitting artefacts, for example) that mean it can provide information about certain aspects of Aboriginal life in the past that other less or alternatively valuable sites may not (Burke & Smith 2004, pp.247–8). When determining research potential value particular emphasis has been placed on the potential for absolute dating of sites.

The following sections provide statements of significance for the Aboriginal archaeological sites recorded during the sub-surface testing for the assessment. The significance of each site follows the assessment process outlined above. This includes a statement of significance based on the categories defined in the Burra Charter. These categories include social, historic, scientific, aesthetic and cultural (in this case archaeological) landscape values. Nomination of the level of value—high, moderate, low or not applicable—for each relevant category is also proposed. Where suitable the determination of cultural (archaeological) landscape value is applied to both individual sites and places (to explore their associations) and also, to the study area as a whole. The nomination levels for the archaeological significance of each site are summarised below.

Representativeness

Representativeness refers to the regional distribution of a particular site type. Representativeness is assessed by whether the site is common, occasional, or rare in a given region. Assessments of representativeness are subjectively biased by current knowledge of the distribution and number of archaeological sites in a region. This varies from place to place depending on the extent of archaeological research. Consequently, a site that is assigned low significance values for contents and condition, but a high significance value for

representativeness, can only be regarded as significant in terms of knowledge of the regional archaeology. Any such site should be subject to re-assessment as more archaeological research is undertaken.

Assessment of representativeness also takes into account the contents and condition of a site. For example, in any region there may only be a limited number of sites of any type that have suffered minimal disturbance. Such sites would therefore be given a high significance rating for representativeness, although they may occur commonly within the region.

The representativeness ratings used for archaeological sites are shown in Table 16.

Table 16 Site representativeness ratings

Rating	Description
1	Common occurrence
2	Occasional occurrence
3	Rare occurrence

Overall scientific significance ratings for sites, based on a cumulative score for site contents, site integrity and representativeness are shown in Table 17

Table 17 Scientific significance ratings

Rating	Description
1-3	Low scientific significance
4-6	Moderate scientific significance
7-9	High scientific significance

Each site is given a score on the basis of these criteria – the overall scientific significance is determined by the cumulative score. This scoring procedure has been applied to the Aboriginal archaeological sites identified during the sub-surface testing. The results are in Table 20.

7.2.1 Statements of archaeological significance

The following archaeological significance assessment is based on Requirement 11 of the Code. Using the assessment criteria detailed in Scientific Values and Significance Assessment, an assessment of significance was determined and a rating for each site was determined. The results of the archaeological significance assessment are given in Table 18 below.

Table 18 Scientific significance assessment of archaeological sites recorded within the study area.

Site name	Site content	Site condition	Representativeness	Scientific significance
Chelsea Gardens Locale 1 52-4-0193	1	1	1	3 – Low
Chelsea Gardens Locale 2 52-4-0194	2	2	2	6 – Moderate

Site name	Site content	Site condition	Representativeness	Scientific significance
Chelsea Gardens Locale 3	1	1	1	3 - Low

Table 19 Statements of scientific significance for archaeological sites recorded within the study area

Site name	Statement of significance
Chelsea Gardens Locale 1 52-4-0193	AHIMS 52-4-0193/Chelsea Gardens Locale 1 consists of a low density scatter of eight stone artefacts eroding out of a silage pit that is currently used as a refuse area. The site is located on the western margin of the ridgeline that extends along the eastern boundary of the study area. The artefacts were found within an area measuring 50 metres north-south by 10 metres east-west, with most being located in redeposited soil excavated from the silage pit. The artefact scatter included complete flakes and flake pieces made from chert, silcrete, quartz and volcanic material. Test excavations at this site confirmed the presence of a spread out, low density artefact deposit containing a limited range of artefact types across a hill crest and ridgeline landform, with 24 total sub surface artefacts identified. Portions of this site have been disturbed from the silage pit and agricultural uses of the study area. The artefact assemblage also displayed evidence of vertical movement of artefacts and heavy fragmentation, possibly as a result of ploughing and cattle trampling which has occurred in the study area. The scientific significance of this is assessed as low, due to the low density, disturbed nature of the site.
Chelsea Gardens Locale 2 52-4-0194	AHIMS 52-4-0914/Chelsea Gardens Locale 2 consists of a low density scatter of at least eleven stone artefacts eroding out of the topsoil on a small knoll to the west of the main dam and immediately south of the golf course. The recorded artefacts were visible in the patches of bare earth beneath the trees. The recorded artefacts extend over an area of 50 metres north-south by 30 metres east-west. Test excavations of this site identified 92 artefacts representing a moderate density deposit, with some diversity of artefact types present. Parts of this site had been disturbed through previous land uses, but the area of highest density located in the centre of the site remained relatively intact. This site is assessed with moderate scientific significance due to its density, diversity and intactness.
Chelsea Gardens Locale 3 52-4-0689	Chelsea Gardens Locale 3 is located on an undulating hill crest to the north east of Chelsea Gardens Locale 2. This site was originally assessed with moderate archaeological potential to contain subsurface deposits due to its elevated nature. Test excavations undertaken at this site, identified 4 artefacts making a small, low density deposit located at the highest point of the crest (T3P1 and T2P4). The artefact deposit at this location contained a limited range of artefactual material that was common in the local and regional area and of low scientific significance.

8 Impact assessment

As previously outlined, the project proposes to subdivide Lot 3 DP 706194 and Lot 12 DP 866036 Moss Vale for residential purposes of land contiguous with the township of Moss Vale NSW. The development is likely to involve civil works to facilitate the construction of infrastructure to support a residential land development, which will consist of landscaping, excavation and installation of services, footings and roads.

8.1 Predicted physical impacts

This ACHA will support a development application to Wingecarribee Shire Council for the proposed residential development within the study area. A total of 1121 lots will be subdivided and developed, with a number of lakes, ponds and recreational areas also proposed. As part of these works bulk earthworks associated with residential development will involve the removal of topsoil and subsoils, while heavy vehicle movement will have the potential to compact surface soils. Left unmitigated, these activities have the potential to completely remove or disturb archaeological deposits and Aboriginal objects in the study area.

A summary of impacts is provided below in Table 20.

Table 20 Summary of potential archaeological impacts

AHIMS site no.	Site name	Significance	Type of harm	Degree of harm	Consequence of harm
52-4-0193	Chelsea Gardens Locale 1	Low	Direct	Total	Total loss of value
52-4-0194	Chelsea Gardens Locale 2	Moderate	Direct	Partial	Partial loss of value
52-4-0689	Chelsea Gardens Local 3	Low	Direct	Total	Total loss of value

8.2 Management and mitigation measures

Ideally, heritage management involves conservation of sites through the preservation and conservation of fabric and context within a framework of 'doing as much as necessary, as little as possible' (Marquis-Kyle & Walker 1994, p.13). In cases where conservation is not practical, several options for management are available. For sites, management often involves the salvage of features or artefacts, retrieval of information through excavation or collection (especially where impact cannot be avoided) and interpretation.

Avoidance of impact to archaeological and cultural heritage sites through design of the development is the primary mitigation and management strategy, and should be implemented where practicable. The following mitigation measures, which considered the principles of ecologically sustainable development (ESD) and intergenerational equity in their design, are proposed.

Test excavations were conducted across two PAD areas associated with AHIMS 52-4-0193/Chelsea Gardens Locale 1 and 52-4-0194/Chelsea Gardens Locale 2, along with another area of PAD associated with a crest landform in the north east portion of the study area. The results of the test excavations identified that AHIMS 52-4-0194/Chelsea Gardens Locale 2 contains a medium density, partially intact subsurface archaeological deposit with a moderate range of artefact types, while 52-4-0193/Chelsea Gardens Locale 1 and Chelsea

Garden Locale 3 contain low density subsurface archaeological deposits with a limited range of artefact types and poor subsurface intactness.

It is not possible to avoid impacts to AHIMS 52-4-0193/Chelsea Gardens Locale 1 and AHIMS 52-4-0689/Chelsea Garden Locale 3 therefore an AHIP application is recommended. Test excavations have uncovered valuable information regarding these sites and the recovered artefacts have been analysed, given the lower density and limited range of artefacts at 52-4-0193/Chelsea Gardens Locale 1 and AHIMS 52-4-0689/Chelsea Garden Locale 3 as well as the common nature of these site types in the region, no further mitigation measures are recommended. Artefacts should be given to the Illawarra Local Aboriginal Land Council for safe keeping where they can be repatriated or used as teaching tools for future generations.

The proposed works will result in partial impacts to AHIMS 52-4-0194/Chelsea Gardens Locale 2 which contained a medium density artefact deposit with a moderate range of artefact types (Figure 9). The site was found to contain varying densities of artefacts with low density artefact numbers recovered on the edges of the site, representing the site boundary or background scatter and higher densities identified in the centre of the site (tree area). Impacts are proposed to this site, but will be isolated to the low density deposits on the site boundary. The areas of moderate density deposit will be avoided by the current works and it is recommended that no further ground disturbances or physical impacts occur to this area. The area of moderate density should continue to be conserved as a green space so that cumulative impacts to this site are kept to a minimum, this should include fencing off the portion of AHIMS 52-4-0194/Chelsea Gardens Locale 2 as a no go area and providing a site induction to construction personnel to inform them of the site. If further impacts are likely to occur to AHIMS 52-4-0194/Chelsea Gardens Locale 2 it is recommended that the area of medium artefact density undergo a program of surface salvage and salvage excavation prior to works in that area.



- Legend**
- Study area
 - Potential Archaeological Deposit (PAD)

Figure 9 Aboriginal sites within the study area



Metres
 Scale: 1:7,000 @ A3
 Coordinate System: GDA 1994 NSW Lambert

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 Albury, Ballarat, Melbourne,
 Newcastle, Sydney, Wangaratta & Wollongong

**OPTION 1
 Lot and Area Schedule**

Lot Type	Lot Nos	Approximate Areas
Commercial	8 (nom)	0.7 ha
400-599 m ²	289	13.9 ha
600-999 m ²	742	47.4 ha
1000-1999 m ²	54	6.1 ha
2000 m ²	13	7.1 ha
Open Space	-	15.2 ha
Rain Reserve	-	39.3 ha
TOTAL	1121	125.5 ha

9 Recommendations

Strategies have been developed based on the archaeological (significance) of cultural heritage relevant to the study area and influenced by:

- Predicted impacts to Aboriginal cultural heritage.
- The planning approvals framework.
- Current best conservation practise, widely considered to include:
 - Ethos of the Australia ICOMOS Burra Charter.
 - The Code.

Prior to any impacts occurring within the study area, the following is recommended:

Recommendation 1: Conservation of AHIMS 52-4-0194/Chelsea Gardens Locale 2

AHIMS 52-4-0194/Chelsea Gardens Locale 2 has been identified as having moderate archaeological significance. The archaeological test excavations have identified a medium density partially intact subsurface archaeological deposit within a hillock landform at the confluence of two creeklines. Therefore, it is recommended that this area of medium density deposit be conserved as a green space and no further ground disturbances occur, including landscaping. It is recommended that no go fencing is placed around the portion of AHIMS 52-4-0194/Chelsea Gardens Locale 2 that will not be impacted and construction personnel undergo a site induction to avoid accidental impacts. If impacts to the areas of highest density currently located outside of proposed works are to occur, then a program of salvage excavations is recommended.

Recommendation 2: Application for an AHIP to harm AHIMS 52-4-0193/Chelsea Gardens Locale 1, AHIMS 52-4-0194/Chelsea Gardens Locale 2 and AHIMS 52-4-0689/Chelsea Gardens Locale 3

The proposed works will result in direct impacts, with a total loss of value to AHIMS 52-4-0193/Chelsea Gardens Locale 1 and AHIMS 52-4-0689/Chelsea Garden Locale 3, and partial loss of value to AHIMS 52-4-0194/Chelsea Gardens Locale 2. It is recommended that Aoyuan International apply to the DPIE for an area wide Aboriginal Heritage Impact Permit (AHIP) covering the entirety of the study area for a term of 20 years. The AHIP should allow for the following:

- Total Impact to the recorded Aboriginal cultural heritage sites AHIMS 52-4-0193/Chelsea Gardens Locale 1 and AHIMS 52-4-0689/Chelsea Garden Locale 3.
- Partial impacts to AHIMS 52-4-0194/Chelsea Gardens Locale 2, avoiding the area of moderate density within this site.
- Impact within the limits of the area wide AHIP for any further Aboriginal objects encountered during construction, unless human remains are identified.

A site impact recording form for registered Aboriginal site AHIMS 52-4-0193/Chelsea Gardens Locale 1, AHIMS 52-4-0194/Chelsea Gardens Locale 2, and AHIMS 52-4-0689/Chelsea Garden Locale 3 should also be completed and submitted to the DPIE following impacts to the site.

For information about AHIPs and their preparation, see below.

Advice preparing AHIPs

An AHIP is required for any activities likely to have an impact on Aboriginal objects or Places or cause land to be disturbed for the purposes of discovering an Aboriginal object. The DPIE issues AHIPs under Part 6 of the NPW Act.

AHIPs should be prepared by a qualified archaeologist and lodged with the DPIE. Once the application is lodged processing time can take between 8-12 weeks. It should be noted that there will be an application fee levied by the DPIE for the processing of AHIPs, which is dependent on the estimated total cost of the development project.

Where there are multiple sites within one study area an application for an AHIP to cover the entire study area is recommended.

Recommendation 3: Establish care and control of Aboriginal objects

All artefacts identified during the test excavations should be reburied in an area adjacent to the study area which will not be impacted by future developments, or given to the ILALC for safe keeping.

Recommendation 4: Discovery of Aboriginal Ancestral Remains

Aboriginal ancestral remains may be found in a variety of landscapes in NSW, including middens and sandy or soft sedimentary soils. If any suspected human remains are discovered during any activity you must:

1. Immediately cease all work at that location and not further move or disturb the remains.
2. Notify the NSW Police and DPIE's Environmental Line on 131 555 as soon as practicable and provide details of the remains and their location.
3. Not recommence work at that location unless authorised in writing by DPIE.

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Appendices

Appendix 1 AHIMS results

THE FOLLOWING APPENDIX IS NOT TO BE MADE PUBLIC

Appendix 2 Test excavation results

Test pit	Date excavated	Landform	Context number	Start depth (mm)	End depth (mm)	Munsell soil colour	Soil description/inclusions	PH	Artefacts
Moss Vale PAD 1									
1	30/06/2019	Crest	1	0	180	10YR 3/2 very dark greyish brown	Semi compacted silty loam with rootlet inclusions.	6	-
			2	180	400	10YR 5/4 yellowish brown	Semi compacted sandy clay with shale inclusions.	6	1
2	01/07/2019	Crest	1	0	200	7.5YR 4/3 brown	Pottery inclusion.	5.5	-
			2	200	300	7.5YR 5/6 strong brown	Semi compacted sandy clay with shale inclusions.	5.5	-
3	01/07/2019	Crest	1	0	80	19YR 3/3 dark brown	Loose sandy silt with small amount of rootlet inclusions.	5	-
			2	80	220	10YR 5/3 brown	Highly compacted silty sand.	5	6
			3	220	400	10YR 5/4 yellowish brown	Semi compacted sandy clay with large shale inclusions.	5	-
4	01/07/2019	Crest	1	0	200	5YR 6/2 pinkish grey	Silty sand.	5	8
			2	200	300	10YR 7/4 very pale brown	Highly compacted clayey sand.	5	13
5	01/07/2019	Simple slope	1	0	120	10YR 3/3 dark brown	Semi compacted silty loam with rootlet inclusions.	5	-
			2	120	300	10YR 5/4 yellowish brown	Semi compacted sandy clay with shale inclusions.	5.5	-

Test pit	Date excavated	Landform	Context number	Start depth (mm)	End depth (mm)	Munsell soil colour	Soil description/inclusions	PH	Artefacts
6	01/07/2019	Crest	1	0	80	19YR 3/3 dark brown	Loose silty sand with small amount of rootlet inclusions.	5	-
			2	80	220	10YR 5/3 brown	Highly compacted silty sand. Artefacts present.	5	-
			3	220	300	10YR 5/4 yellowish brown	Semi compacted sandy clay with large shale inclusions.	5.5	-
7	01/07/2019	Crest	1	0	80	10YR 3/3 dark brown	Loose sandy silt with rootlet inclusions.	5	-
			2	80	160	10YR 5/3 brown	Highly compacted sandy clay. Artefacts present.	5	-
			3	160	300	10YR 5/4 yellowish brown	Semi compacted sandy clay with large shale inclusions.	5.5	1
8	01/07/2019	Crest	1	0	80	10YR 3/3 dark brown	Loose sandy silt with rootlet inclusions.	5	-
			2	80	280	10YR 5/3 brown	Highly compacted silty sand.	5	10
			3	160	400	10YR 5/4 yellowish brown	Semi compacted sandy clay with large shale inclusions.	5.5	4
9	01/07/2019	Simple slope	1	0	180	7.5YR 4/3 brown	Loose silty sand with rootlet inclusions.	5.5	1
			2	180	300	7.5YR 5/6 strong brown	Semi compacted sandy clay with shale inclusions.	5.5	2
10	02/07/2019	Crest	1	0	80	10YR 3/3 dark brown	Loose sandy silty with small amount of rootlet inclusions.	5	-
			2	80	200	10YR 5/3 brown	Highly compacted silty sand. Artefacts present.	5	10
			3	200	400	10YR 5/4 yellowish brown	Semi compacted sandy clay with large shale inclusions.	5.5	10

Test pit	Date excavated	Landform	Context number	Start depth (mm)	End depth (mm)	Munsell soil colour	Soil description/inclusions	PH	Artefacts
11	02/07/2019	Crest	1	0	100	5YR 4/2 dark reddish grey	Loose loamy sand with rootlet inclusions.	5	1
			2	100	250	7.5YR 6/2 pinkish grey	Highly compacted clayey sand.	5.5	-
12	02/07/2019	Crest	1	0	200	10YR 3/2 very dark greyish brown	Semi compacted silty loam with rootlet inclusions.	6	-
			2	200	400	10YR 5/4 yellowish brown	Semi compacted sandy clay with shale inclusions.	6	4
13	02/07/2019	Crest	1	0	170	5YR 4/3 reddish brown	Loose Loamy clay with rootlet inclusions.	5	12
			2	170	270	10YR 5/4 yellowish brown	Loose loamy sand.	5	67
			3	270	400	10YR 6/4 light yellowish brown	Loose clayey sand.	5.5	7
14	02/07/2019	Simple slope	1	0	200	10YR 3/2 very dark greyish brown	Semi compacted silty loam with rootlet and single artefact inclusion.	6	-
			2	200	300	10YR 5/4 yellowish brown	Semi compacted sandy clay with shale inclusions.	6	1
15	02/07/2019	Upper slope	1	0	150	7.5YR 4/2 brown	Loose loamy sand with rootlet inclusions.	5.5	-
			2	150	260	7.5YR 4/3 brown	Loose loamy sand.	5.5	-
			3	260	300	5YR 5/6 yellowish red	Semi compacted clayey sand with light shale inclusions.	5.5	-
16	02/07/2019	Simple slope	1	0	200	7.5YR 4/3 brown	Semi contacted silty sand.	5.5	-
			2	200	300	7.5YR 5/6 strong brown	Semi compacted sandy clay.	5.5	-
17	02/07/2019	Upper slope	1	0	200	7.5YR 4/3 brown	Semi compacted silty sand with rootlet	5.5	-

Test pit	Date excavated	Landform	Context number	Start depth (mm)	End depth (mm)	Munsell soil colour	Soil description/inclusions	PH	Artefacts
							inclusions.		
			2	200	300	7.5YR 5/6 strong brown	Semi compacted sandy clay with shale inclusions.	5.5	-
18	02/07/2019	Crest	1	0	180	7.5YR 5/2 brown	Semi compacted silty sand with rootlets.	5	-
			2	180	300	7.5YR 6/4 reddish yellow	Loose loamy clay.	5	-
Moss Vale PAD 2									
Transect 1									
1	03/07/2019	Crest	1	0	50	7.5YR 3/3 dark brown	Loose sandy clay loam with root and 2% ironstone inclusion.	4.5	1
			2	50	100	7.5YR 3/3 dark brown	Loose sandy clay loam with root and 5% ironstone inclusion.	4.5	-
			3	100	150	7.5YR 3/3 dark brown	Loose sandy clay loam with root and 10% ironstone inclusion.	4.5	-
			4	150	200	7.5YR 3/3 dark brown	Loose loamy sand with root and 15% ironstone inclusion.	4.5	-
			5	200	250	7.5YR 5/6 strong brown	Loose sandy clay with 15% ironstone inclusion.	4.5	-
			6	250	310	7.5YR 5/6 strong brown	Loose sandy clay with 20% ironstone inclusion.	4.5	-
2	03/07/2019	Crest	1	0	100	7.5YR 3/3 dark brown	Loose sandy clay loam with root and 2% ironstone inclusion.	4.5	-
			2	100	200	7.5YR 3/3 dark brown	Loose loamy sand with root and 2% ironstone inclusion.	4.5	-

Test pit	Date excavated	Landform	Context number	Start depth (mm)	End depth (mm)	Munsell soil colour	Soil description/inclusions	PH	Artefacts	
3	03/07/2019	Upper slope	3	200	300	7.5YR 5/6 strong brown	Loose sandy clay with roots and single burnt root with 5% ironstone inclusion.	4.5	3	
			4	300	400	7.5YR 5/6 strong brown	Loose sandy clay with root and 5% ironstone inclusion.	4.5	-	
			1	0	100	2.5/3 7.5YR very dark brown	Loose clayey sandy loam with root and 3% ironstone inclusion.	4.5	-	
			2	100	200	2.5/3 7.5 YR very dark brown	Loose silty clay loam with root and rock inclusions. Rock size varies from 5-30mm.	4.5	-	
3	03/07/2019	Upper slope	3	200	300	3/4 7.5 YR dark brown	Loose sandy clay with root and rock inclusions. Rock size varies from 5-20mm.	4.5	-	
			4	300	400	3/4 7.5YR dark brown	Loose sandy clay with root and rock inclusions. Rock size varies from 5-20mm.	4.5	-	
			Transect 2							
			1	03/07/2019	Upper slope	1	0	100	3/3 7.5YR dark brown	Loose clayey loam with root and rock inclusions. Rock size varies from 2-5mm.
1	03/07/2019	Upper slope	2	100	200	3/3 7.5YR dark brown	Loose clayey loam with root and rock inclusions. Rock size varies from 5-20mm	4.5	5	
			3	200	300	4/6 7.5 YR strong brown	Loose sandy clay with root, rock and charcoal (2%) inclusions. Rock size varies from 5-30mm.	4.5	1	
			2	03/07/2019	Crest	1	0	300	7.5YR 3/3 dark brown	Semi compacted loamy silt with rootlet inclusions.
2	03/07/2019	Crest	2	300	400	7.5YR 6/8 reddish yellow	Semi compacted clayey silt.	4.5	3	
			3	03/07/2019	Crest	1	0	220	10YR 4/4 dark yellowish	Loose loamy silt with rootlet inclusions.

Test pit	Date excavated	Landform	Context number	Start depth (mm)	End depth (mm)	Munsell soil colour	Soil description/inclusions	PH	Artefacts
						brow			
			2	220	300	10YR 5/6 yellowish brown	Semi compacted loamy clay.	5.5	2
Transect 3									
1	04/07/2019	Crest	1	0	120	2.5/3 7.5YR very dark brown	Semi compacted clayey loam with root and 3% ironstone inclusions.	4.5	-
			2	120	250	3/4 7.5 YR dark brown	Loose sandy clay with root and small sandstone (50%) fragment inclusions. Size of sandstone fragments varies from 5-20mm.	4.5	-
			3	250	300	7.5YR 5/6 dark brown	Semi compacted clay with root and sandstone fragment (70%) inclusions. Size of sandstone fragments range from 5-20mm.	4.5	-
2	04/07/2019	Crest	1	0	140	2.5/3 7.5YR very dark brown	Semi compacted clayey loam with root and 3% small ironstone inclusion.	4.5	3
			2	140	250	3/4 7.5YR dark brown	Loose sandy clay with root and small sandstone (30%) inclusions. Size of sandstone fragments range from 5-20mm.	4.5	-
			3	250	300	7.5YR 5/6 strong brown	Semi compacted clay with root and sandstone fragment (70%) inclusions. Size of sandstone fragments range from 5-20mm.	4.5	-
3	04/07/2019	Upper slope	1	0	160	2.5/3 7.5YR very dark brown	Semi compacted clayey loam with root and ironstone (3%) inclusions.	4.5	-
			2	160	290	10YR 4/3 brown	Loose loamy clay with root and charcoal (10%) inclusions.	4.5	-
			3	290	300	10YR 4/4 dark yellowish	Semi compacted clay.	4.5	-

Test pit	Date excavated	Landform	Context number	Start depth (mm)	End depth (mm)	Munsell soil colour	Soil description/inclusions	PH	Artefacts
						brown			
Transect 4									
1	04/07/2019	Crest	1	0	120	2.5/3 7.5YR very dark brown	Semi compacted clayey loam with root inclusions.	4.5	1
			2	120	350	3/4 7.5YR dark brown	Loose sandy clay with root and small sandstone (20%) inclusions. Size of sandstone fragments ranges from 5-20mm	4.5	-
			3	350	400	7.5YR 5/6	Semi compacted clayey sand with sandstone fragment (80%) inclusions. Sandstone fragment sizes ranges from 5-50mm.	4.5	-
2	04/07/2019	Crest	1	0	190	7.5YR 2.5/3 very dark brown	Semi compacted clayey loam with root inclusions.	4.5	1
			2	190	290	10YR 3/4 dark yellowish brown	Semi compacted sandy clay with small rock (30%) inclusions.	4.5	-
			3	290	300	10YR 4/6 dark yellowish brown	Semi compacted sandy clay with rock and sandstone fragment (80%) inclusions.	4.5	-
3	04/07/2019	Simple slope	1	0	160	2.5/3 7.5YR very dark brown	Semi compacted clayey loam with root and ironstone (3%) inclusions.	4.5	-
			2	160	320	10YR 4/4	Loose sandy clay with small rock (5%) inclusions.	4.5	-
			3	320	400	10YR 4/6	Semi compacted clay.	4.5	-
Transect 5									
1	04/07/2019	Crest	1	0	180	2.5/3 7.5YR very dark brown	Semi compacted clayey loam with root inclusions. Some soil mixing.	4.5	2

Test pit	Date excavated	Landform	Context number	Start depth (mm)	End depth (mm)	Munsell soil colour	Soil description/inclusions	PH	Artefacts
			2	180	360	3/4 7.5 YR dark brown	Loose sandy clay with root and sandstone fragment (10%) inclusions. Sandstone fragment size ranges from 5-20mm.	4.5	-
			3	360	400	7.5YR 5/6 strong brown	Semi clayey sand with sandstone fragment (80%) inclusions. Sandstone fragment size ranges from 5-50mm.	4.5	-
2	05/07/2019	Crest	1	0	200	10YR 3/2 dark brown	Semi compacted silty clay with rootlet inclusions.	5.5	-
			2	200	400	10YR 4/4 dark yellowish brown	Semi compacted sandy clay with small gravel (5mm) and shale fragment inclusions.	4.5	-
3	05/07/2019	Crest	1	0	200	10YR 3/2 dark brown	Semi compacted silty clay with rootlet inclusions.	5.5	2
			2	200	400	10YR 4/4 dark yellowish brown	Semi compacted sandy clay with small gravel (5mm) and shale fragment inclusions.	4.5	-
4	05/07/2019	Crest	1	0	80	10YR 3/2 very dark greyish brown	Semi compacted silty sand with rootlet inclusions.	5.5	-
			2	80	250	10YR 4/4 dark yellowish brown	Semi compacted sandy clay with very large shale fragments.	4.5	-
5	05/07/2019	Crest	1	0	80	10YR 3/2 very dark greyish brown	Semi compacted Silty clay with rootlet inclusions.	5.5	-
			2	80	200	10YR 4/4 dark yellowish brown	Semi compacted Sandy clay with medium shale fragment inclusions.	4.5	1
Transect 6									
1	05/07/2019	Crest	1	0	180	10YR 3/2 very dark greyish brown	Semi compacted silty clay with rootlet inclusions.	5.5	-

Test pit	Date excavated	Landform	Context number	Start depth (mm)	End depth (mm)	Munsell soil colour	Soil description/inclusions	PH	Artefacts
			2	180	300	10YR 4/4 dark yellowish brown	Semi compacted sandy clay with shale fragment inclusions.	4.5	-
2	05/07/2019	Crest	1	0	160	10YR 3/2 very dark greyish brown	Semi compacted silty clay with rootlet inclusions.	5.5	-
			2	160	300	10YR 4/4 dark yellowish brown	Semi compacted sandy clay with small gravel (5mm) and shale inclusions.	4.5	-
3	05/07/2019	Crest	1	0	180	10YR 3/2 very dark greyish brown	Semi compacted silty clay with rootlet inclusions.	5.5	-
			2	180	300	10YR 4/4 dark yellowish brown	Semi compacted sandy clay with shale fragment inclusions.	4.5	-
4	05/07/2019	Crest	1	0	160	10YR 3/2 very dark greyish brown	Semi compacted silty clay with rootlet inclusions.	5.5	-
			2	160	300	10YR 4/4 dark yellowish brown	Semi compacted sandy clay with small gravel (5mm) inclusions.	4.5	-
Moss Vale PAD 3									
Transect 1									
1	08/07/2019	Upper slope	1	0	210	10YR 3/4 dark yellowish brown	Loamy clay with rootlet inclusions.	5.5	-
			2	210	320	7.5YR 5/8 strong brown	Sandy clay. Diffuse clarity.	5.5	-
			3	320	400	10YR 5/8 yellowish brown	Clayey sand with sandstone fragment (30%) inclusions. Size of sandstone fragments range from 5-20mm. Diffuse clarity	5	-
2	08/07/2019	Crest	1	0	250	10YR 3/4 dark yellowish brown	Loamy clay with rootlet inclusions.	5.5	-

Test pit	Date excavated	Landform	Context number	Start depth (mm)	End depth (mm)	Munsell soil colour	Soil description/inclusions	PH	Artefacts
			2	250	420	7.5YR 5/8 strong brown	Clayey sand with sandstone fragment (10%) inclusions.	5	-
			3	420	500	10YR 6/8 brownish yellow	Sand with sandstone fragment (90%) inclusions.	5	-
			3	08/07/2019	Crest	1	0	240	10YR 3/4 dark yellowish brown
			2	240	450	7.5YR 5/8 strong brown	Sandy clay with charcoal inclusions.	5	-
			3	450	490	10YR 6/6 brownish yellow	Clay.	4.5	-
4	08/07/2019	Top slope	1	0	210	7.5YR 4/2 brown	Sandy loam with rootlet inclusions.	5	-
			2	210	300	10YR 6/4 light yellowish brown	Sand.	5	-
			3	300	670	10YR 7/6 yellow	Sand.	5	-
5	08/07/2019	Crest	1	0	150	7.5YR 3/4 dark brown	Silty loam with rootlet inclusions.	5	-
			2	150	300	7.5YR 5/6 strong brown	Sandy loam with sandstone inclusions.	5	-
Transect 2									
1	08/07/2019	Upper slope	1	0	150	7.5YR 3/3 dark brown	Loamy clay with root inclusions.	5	-
			2	150	200	7.5YR 4/6 strong brown	Sandy clay with sandstone fragment (80%) inclusions. Size of sandstone fragments ranges from 10-50mm.	5	-
2	08/07/2019	Upper slope	1	0	230	7.5YR 3/3 dark brown	Loamy clay with root inclusions.	5	-
			2	230	300	7.5YR 4/6 strong brown	Sandy clay with sandstone fragment (40%) inclusions.	5	-

Test pit	Date excavated	Landform	Context number	Start depth (mm)	End depth (mm)	Munsell soil colour	Soil description/inclusions	PH	Artefacts
3	08/07/2019	Crest	1	0	210	7.5YR 5/3 brown	Loamy clay with rootlet and charcoal inclusions.	5.5	-
			2	210	280	7.5YR 4/6 strong brown	Sandy clay.	5	-
			3	280	300	10YR 4/6 dark yellowish brown	Clay with sandstone fragment (20%) inclusions.	5	-
4	08/07/2019	Crest	1	0	190	7.5YR 3/3 dark brown	Clay loam with root and sandstone fragment (10%) inclusions.	5	-
			2	190	300	10YR 4/6 dark yellowish brown	Sandy clay with sandstone fragment (60%) inclusions.	4.5	2
5	08/07/2019	Crest	1	0	150	7.5YR 3/3 dark brown	Loamy clay with root inclusions.	5	-
			2	150	360	7.5YR 4/6 strong brown	Sandy clay.	5	-
			3	360	400	10YR 4/6 dark yellowish brown	Clayey sand with sandstone fragment inclusions.	4.5	-

Appendix 3 Lithics analysis

ID No.	PAD	Transect	Pit	Spit	Type	Raw material	Cortex (%)	Platform type	Platform width (mm)	Platform depth (mm)	Termination	Retouch type	Retouch location	Length (mm)	Width (mm)	Thickness (mm)	Flake scars	Tool type	Comments
1	1		8	1	Complete	silcrete	0	faceted	9.37	6.89	Feather	scalar	scalar on distal half of right lateral margin	31.76	13.04	9.03	12		redirecting flake
2	1		8	1	proximal	quartz	0	plain	6.51	2.41				8.93	10.49	4.03	1		
3	1		8	1	angular fragment	quartz	0							12					
4	1		8	1	angular fragment	quartz	0							7.19					
5	1		8	1	angular fragment	quartz	0							9.52					
6	1		8	1	angular fragment	silcrete	0							4.47					
7	1		8	1	distal	silcrete	0				feather			2.69	2.35	0.44	2		
8	2	2	1	2	proximal	quartzite	0	plain	5.17	1.79				7.78	8.79	1.55	1		
9	2	2	3	1	medial	quartzite	0							8.72	7.71	1.75	3		
10	1		14	2	angular fragment	silcrete	0							14.29					
11	1		8	3	complete	silcrete	0	plain	5.31	2.53	plunge			15	8.89	5.31	1		
12	1		8	3	tool	silcrete	0	plain	9.2	4.02	retouched	scalar and step	distal edge (q3)	15.78	14.82	6.02	7	steep edged scaper	
13	1		8	3	proximal	quartz	0	crushed						12.46	7.17	2.87	1		
14	1		8	3	medial	tuff	0							23.25	11.81	4.98	2		
15	1		13	2	complete	silcrete	0	plain	8.59	6.67	plunge			30.65	10.6	10.26	2		
16	1		13	2	Distal	silcrete	0				feather			18.24	7.39	4.15	3		
17	1		13	2	complete	quartz	0	plain	5.72	1.45	plunge			7.5	11.27	1.92	1		
18	1		13	2	distal	quartz	0				feather			14.38	7.3	2.6	2		
19	1		13	2	complete	quartz	0	plain	4.78	2.69	plunge			11.51	7.07	2.68	0		
20	1		13	2	angular fragment	crystal quartz	0							7.79					

21	1		13	2	angular fragment	quartz	0						6.72					
22	1		13	2	angular fragment	quartz	0						4.3					
23	1		13	2	angular fragment	quartz	0						5.34					
24	1		10	3	complete	silcrete	0	crushed					5.31	3.71	1.07	1		
25	1		10	4	complete	quartzite	0	plain	7.17	3.25			10.39	8.06	2.64	1		
26	1		10	4	angular fragment	quartzite	0						5.95					
27	1		10	4	distal	quartzite	0						13.07	9.35	2.41	0		
28	1		4	4	single platform core	quartzite	0						20.76	17.05	14.18	2		LFS L:14,18
29	1		4	4	distal	silcrete	0%						11.63	6.85	2.01	2		
30	1		11	3	tool	silcrete	0%				backing	one lateral margin	13.45	7.73	3.79	8	geometric microlith	
31	1		11	3	longitudinal	silcrete	0	plain		3.14			11.08		2.83	0		
32	1		11	3	proximal	silcrete	0	plain	9.62	2.39			7.23	10.99	3.26	2		
33	1		11	3	distal	silcrete	0						11.46	9.26	3.67	2		
34	1		11	3	distal	quartz	0						10.23	5.62	1.38	0		
35	1		11	3	angular fragment	quartz	0						7.9					
36	1		11	3	distal	quartz	0						6.38	4.08	1.66	0		
37	1		8	2	complete	chert	0	crushed					10.76	9.31	1.88	1		
38	1		8	2	distal	silcrete	0						23.8	6.49	4.04	3		
39	1		8	2	Proximal	quartz	0	crushed					8.92	10.36	6.7	3		possible bipolar core fragment
40	1		8	2	complete	quartz	0	plain	11.57	2.26			6.93	7.35	2.92	1		
41	1		8	2	longitudinal	quartz	0	crushed					7.56	4.49	0.97	2		
42	1		4	1	complete	quartz	0	crushed					15.63	9.38	2.09	1		
43	1		6	4	proximal	silcrete	0	plain	12.96	12.95			20.27	21.23	11.2	1		
44	1		13	4	complete	chert	0	crushed					8.49	6.58	1.19	2		
45	1		13	4	complete	silcrete	0	crushed					7.29	9.24	1.47	1		
46	1		13	4	Bipolar core	quartz	0						16.84	6.15	6.28	1		LFS L: 11.44
47	1		9	3	medial	quartz	0						6.51	5.19	1.39	1		
48	1		11	1	angular fragment	silcrete	0						10.86					
49	2	4	2	1	proximal	silcrete	0	plain	10.83	2.71			12.68	18.75	4.11	1		
50	1		13	1	distal	silcrete	0						5.2	4.86	0.93	2		
51	1		13	1	proximal	quartz	0	crushed					6.78	3.59	1.52	2		
52	1		13	1	medial	quartzite	0						11.66	16.73	5.92	1		
53	1		13	1	angular fragment	quartz	0						18.61					
54	2	5	3	1	distal	silcrete	0						23.16	8.07	3.09	3		

55	2	5	3	1	medial	quartz	0						5.38	10.13	1.66	0			
56	2	3	2	2	longitudinal	silcrete	0	plain		2.94	feather		16.07	4.69	4.36	1			
57	2	3	2	2	proximal	silcrete	0	plain	4.85	1.71			15.21	7.03	2.09	2			
58	2	3	2	1	distal	chert	0				feather		13.76	7.07	5.41	1			
59	2	3	2	1	proximal	silcrete	0	plain	11.72	3.57			24.5	29.47	13.94	1			
60	2	1	1	1	proximal	silcrete	0	flaked	9.02	2.51			10.75	12.42	2.64	1			
61	3	2	4	2	distal	quartzite	0				hinge		11.87	8.64	1.53	1			
62	3	2	4	2	longitudinal	quartzite	0	plain		1.17	feather		6.5	3.59	0.88	0			
63	2	2	1	3	complete	silcrete	0	plain	5.74	1.3	feather		9.46	10.75	1.39	1			
64	2	5	5	2	proximal	quartzite	0	flaked	10.34	5.64			15.97	17.99	5.68	1			
65	2	2	2	2	multiplatform core	silcrete	0						32.02	25.74	13.55	3		LFS L: 20.66	
66	2	2	2	2	distal	silcrete	0				feather		11.21	10.31	2.8	1			
67	2	5	1	2	medial - blade	silcrete	0						6.31	2.27	16.98	2			
68	2	5	1	2	complete	quartz	0	crushed			feather		8.54	9.76	3.17	2			
69	1		3	2	tool	chert	0					backing	proximal and left lateral marginS	18.43	8.81	2.5	9		aysmetric backed artefact
70	1		3	2	distal	silcrete	0%				feather		23.08	9.34	5.34	0			
71	1		3	2	complete	quartz	0	crushed			feather		13.11	15.5	2.44	0			
72	1		3	2	complete	quartz	0	plain	6.32	2.96	crushed		13.12	9.07	2.76	0			
73	1		3	2	complete	quartz	0	plain	6.16	2.49	feather		9.21	4.57	2.68	2			
74	1		3	2	medial	chert	0						7.78	6.12	0.95	1			
75	1		3	2	angular fragment	quartz	0						13.86						
76	1		13	3	medial-blade	silcrete	0						14.93	4.61	1.82	2			
77	1		13	3	tool	silcrete	0	plain	6.31	5.2		backing	left lateral margin	22.15	7.79	4.83	5		Bondi point
78	1		13	3	distal	silcrete	0				feather		12.73	7.95	2.58	1			
79	1		13	3	angular fragment	silcrete	0						8.78						
80	1		4	3	proximal	silcrete	0	flaked	7.73	3.31			11.22	8.69	2.61	3			
81	1		4	3	angular fragment	silcrete	0						8.05						
82	1		4	3	tool	chert	0					backing	right lateral margin	13.28	8.15	3.51	4		distal backed artefact fragment
83	1		4	3	medial	crystal quartz	0						10.77	5.74	1.87	3			
84	1		4	3	angular fragment	quartz	0						8.16	5.79	4.47				
85	1		4	5	complete	quartz	0	crushed			axial		13.51	7.59	3.87	1			
86	2	1	2	2	distal	quartzite	0				feather		16.11	11.57	5.36	1			
87	2	1	2	2	distal	quartz	0				feather		15.1	8.1	3.69	0			

88	2	1	2	2	medial	quartz	0							7.82	3.34	1.49	2		
89	2	1	2	2	proximal	quartz	0	plain	3.54	1.9				9.51	4.32	2.83	2		
90	2	1	2	2	angular fragment	quartz	0							7.21					
91	2	1	2	3	complete	quartzite	40	plain	5.3	3.2	feather			18.85	10.62	4	1		
92	2	1	2	3	complete	quartz	0	flaked	3.49	1.36	feather			4.23	4.92	1.26	0		
93	2	1	2	3	distal	quartz	0				feather			8.31	5.05	2.34	0		
94	1		9	4	longitudinal	quartzite	0	plain		1.92	feather			11.82	3.43	2.44	0		
95	1		1	2	tool	quartzite	0					backing	right lateral margin	13.66	5.61	2.22	4	asymetric backed artefact	
96	1		9	5	proximal	chert	0	plain	2.5	1.19				6.23	5.15	1.38	2		
97	1		12	2	complete	silcrete	0	flaked	3.61	1.49	plunge			9	8.72	1.64	2		
98	1		12	2	complete	crystal quartz	0	crushed			feather			11.8	8.87	3.04	1		
99	1		12	2	complete	quartz	0	plain	8.19	5.81	feather			11.25	5.99	3.99	1		
100	1		12	2	complete	crystal quartz	0	plain	9.16	5.53	feather			10.7	8.89	5.67	0		
101	1		4	2	proximal	quartz	0%	crushed						8.27	7.31	1.65	1		
102	1		4	2	proximal	quartz	0%	plain	2.62	1.43				10.24	5.72	2.23	0		
103	1		4	2	proximal	quartz	0	crushed						4.9	6.28	1.34	0		
104	1		4	2	complete	silcrete	0	plain	1.97	1.32				5.25	4.63	1.73	2		
105	1		4	2	dsital	quartz	0				feather			6.97	4.54	1.17	0		
106	1		4	2	complete	quartzite	0	plain	2.95	1.74	feather			6.85	5.02	1.99	2		
107	1		11	2	bidirectional core	silcrete	0							30.01	10.12	10.29	3	blade core	LFS L: 28.08
108	1		11	2	complete	silcrete	0	flaked	12.3	3.74	plunge			12.19	10.69	2.68	1		
109	1		11	2	complete	quartz	0	flaked	14.04	6.08	hinge			14.26	14.44	7.59	2		
110	1		11	2	complete	silcrete	0	plain	4.72	1.9	feather			11.42	6.07	3.35			
111	1		11	2	angular fragment	silcrete	0							7.68					
112	1		11	2	medial	silcrete	0							5.74	8.36	1.27	0		
113	1		11	2	angular fragment	silcrete	0							8.88					
114	1		11	2	angular fragment	quartz	0							9.14					
115	1		11	2	proximal	quartz	0	crushed						5.28	4.95	1.57	1		
116	1		11	2	angular fragment	quartz	0%							9.24					
117	1		11	2	angular fragment	quartz	0%							10.03					
118	1		11	2	angular fragment	silcrete	0							4.76					
119	3	3	1	2	complete	silcrete	0	plain	9.11	3.32	plunge			19.43	10.54	5.73	2		
120	3	3	1	2	medial	silcrete	0							16.25	8.01	4.93	1		