

Tallawarra Lands Central Precinct: Aboriginal cultural heritage assessment report FINAL REPORT Prepared for Cardno 6 December 2017



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 (ILALC)
- Warra Bingi Nunda Gurri
- Woronora Plateau Gundangara Elders Council
- Darug Land Observations
- Three Ducks Dreaming Surveying and Consulting
- The Wadi Wadi Coomaditchie Aboriginal Corporation
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- Office of Environment and Heritage (OEH)
- National Native Title Tribunal (NNTT)
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Glossary

ACHAR	Aboriginal Cultural Heritage Assessment Report
AHIMS	Aboriginal Heritage Information Management System
DA	Determining Authority
DECCW	Department of Environment, Climate Change and Water (now OEH)
DP	Deposited Plan
EPA	Environment Planning and Assessment
GDA	Geocentric Datum of Australia
GPS	Global Positioning System
GSV	Ground Surface Visibility
ICOMOS	International Council on Monuments and Sites
LALC	Local Aboriginal Land Council
LEP	Local Environmental Plan
LGA	Local Government Area
MGA	Map Grid of Australia
NHL	National Heritage List
NPW Act	National Parks and Wildlife Act
NPWS	National Parks and Wildlife Service
NSW	New South Wales
NTSCORP	Native Title Services Corporation
OEH	NSW Office of Environment and Heritage
PAD	Potential Archaeological Deposit
RAP	Registered Aboriginal Party
REF	Review of Environmental Factors
REP	Regional Environmental Plan
SEPP	State Environmental Planning Policy
NNTT	National Native Title Tribunal
ICOMOS	International Council on Monuments and Sites



Summary

Biosis Pty Ltd was commissioned by Cardno on behalf of Bridgehill Group to undertake an Aboriginal cultural heritage assessment (ACHA) (this report) and archaeological report (AR) of a proposed residential development of the Tallawarra Central Precinct, Yallah NSW. The study area is located in Lot 15 DP 1050255,Lot 1 DP 1146409, Lot 102 DP 716727, Lot 1 DP 551658, Lot 1 DP 543285, Lot 7 DP 1049520 and Lot 8 DP 1049520. It is approximately 14 kilometres south west of the Wollongong central business district (CBD).

Bridgehill Group have acquired some of the Tallawarra Lands in the Northern and Central Precincts from Energy Australia, and intend to develop new residential communities, a light industrial development, and tourism facilities on those lands. The original concept approval (MP09_0131) was granted on 23 May 2013 by the Planning Assessment Commission as a delegate for the Minister for Planning and Infrastructure for a mixed use development including residential, commercial, industrial and retail development, public open space areas, new recreational facilities, environmental management, conservation areas and riparian corridors at Tallawarra Lands, Yallah.

Bridgehill Group, intends to modify the existing concept approval for the Central Precinct at Tallawarra, Yallah (MP 09_0131 MOD 1) under Part 3A section 75W of the *Environmental Planning and Assessment Act 1979*.

This ACHA covers the Central Precinct (the study area), and aims to determine whether the proposed modification will have any additional impacts on Aboriginal cultural values. The purpose of this assessment is to support an EIS application to modify the existing concept approval for the Central Precinct (MP 09_0131 MOD 1) to allow an increased residential lot yield.

This report has responded to Section 6.10.1 Aboriginal Cultural Heritage of the *Tallawarra Lands, Yallah: Request for Secretary's Environmental Assessment Requirements* (Urbis 2016) to:

- Confirm the location of the above archaeological site relative to the proposed expanded areas.
- Consultation with relevant stakeholders will be carried out prior to preparation of the EIS.
- Identifying the nature and extent of impacts on Aboriginal and cultural heritage values across the project area; and
- Provide the actions that will be taken to avoid or mitigate impacts or compensate to precent unavoidable or mitigate impacts of the project or Aboriginal cultural heritage values.

SEARs Item	Response
12. Aboriginal Cultural Heritage Aboriginal Cultural Heritage	This report has been conducted in accordance with the <i>Guide to Investigating Assessing</i> <i>and Reporting on Aboriginal Cultural Heritage in NSW</i> (OEH 2011). This report supports the Aboriginal cultural heritage assessment, which has been conducted in accordance with the <i>Aboriginal Cultural Heritage Consultation Requirements</i>
Assessment in accordance with the Guide to investigating Assessing and Reporting on Aboriginal Cultural Heritage in NSW	for Proponents 2010 (DECCW 2010b). Consultation with Registered Aboriginal Parties is currently underway.
(DECCW 2011) and Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010 (DECCW)	



There are 86 Aboriginal cultural heritage sites registered with the Aboriginal Heritage Information Management System (AHIMS) register in the vicinity of the study area, four of which are located within the study area; TLPD AFT 7 (AHIMS 52-5-0613), TLPD AFT 8 (AHIMS 52-5-0614), TLPD AFT 9 (AHIMS 52-5-0615), and Tallawarra Pipeline PAD 3 (AHIMS 52-5-0523).

The survey was conducted on 29 June 2017. 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 combined with a low amount of exposures.

No previously unrecorded Aboriginal cultural heritage sites were identified during the field survey.

Based on the site survey and previous assessments, the drainage line that runs through the study area and into Ducks Creek was assessed as having high archaeological potential to contain further subsurface cultural deposits, as their proximity to useful resources and fresh water made them valuable occupation areas. The ridgeline in the study area was assessed as having moderate potential as previous research had determined that the landform is likely to contain low density or isolated artefacts that were discarded as Aboriginal people travelled along them.

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 Illawarra Mercury newspaper (20 June 2017), which resulted in the following Aboriginal organisations registering their interest:

- Illawarra Local Aboriginal Land Council (ILALC)
- Warra Bingi Nunda Gurri
- Woronora Plateau Gundangara Elders Council
- Darug Land Observations
- Three Ducks Dreaming Surveying and Consulting
- The Wadi Wadi Coomaditchie Aboriginal Corporation
- Guunamaa Dreaming and Sites
 Surveying

- James Davis
- Goobah Development Pty Ltd (Murrin Clan/Peoples)
- Murramarang (Murrin Clan/Peoples
- Minnamunnung
- Duncan Falk Consultancy
- Cullendulla (Murrin Clan/Peoples)
- Biamanga (Murrin Clan/Peoples)

Upon registration, the Aboriginal parties were invited to provide their knowledge on the study area and on the proposal provided in *Project Information and Assessment Methodology, Aboriginal Cultural Heritage Assessment: Northern and Central Precincts at Tallawarra, Yallah NSW.* Responses from the Registered Aboriginal Parties (RAPs) are included in Appendix 3.

The outcome of the consultation process was that the RAPs considered the study area to have a high level of cultural significance. Three Ducks Dreaming Surveying and Consulting believes there are many significant areas within the area, especially around the creeks and plains. The 2010 Aboriginal archaeological



assessment conducted for the study area identified that the study area is considered to have high cultural significance due to the presence of Aboriginal archaeological sites and the study area proximity to Lake Illawarra, Duck Creek and Mount Brown (Biosis 2010). The results of the consultation process are included in this document.

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

Conclusions

This assessment has concluded that impacts to site Tallawarra Pipeline PAD 3 (AHIMS 52-5-0523) cannot be avoided by the proposed development. The proposed modification will therefore have an additional impact on Aboriginal cultural heritage.

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:
 - 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: Further archaeological assessment is required in areas of moderate and high archaeological potential

Areas identified as having high and moderate archaeological potential should be avoided wherever possible (Figure 5). If impacts to these areas cannot be avoided subsurface investigations (test excavations) will be required prior to the commencement of works as a condition of the DA or concept approval. Test excavations should be conducted in accordance with the *Code of Practice for archaeological investigation for Aboriginal objects in NSW* (DECCW 2010b) and *Aboriginal cultural heritage consultation requirements for proponents in New South Wales* (DECCW 2010a).

Recommendation 2: Further archaeological assessment is required at Tallawarra Pipeline PAD 3 (AHIMS 52-5-0523)

If impacts to Tallawarra Pipeline PAD 3 (AHIMS 52-5-0523) cannot be avoided, subsurface investigations (test excavations) will be required prior to the commencement of works as a condition of the DA or concept approval. Test excavations should be conducted in accordance with the *Code of Practice for archaeological investigation for Aboriginal objects in NSW* (DECCW 2010b) and *Aboriginal cultural heritage consultation requirements for proponents in New South Wales* (DECCW 2010b).

Recommendation 3: Conservation of Fig Tree associated with TLPD AFT 9 (AHIMS 52-5-0615)

If possible the Fig Tree associated with TLPD AFT 9 (AHIMS 52-5-0615) should be conserved and incorporated into the modification of the concept approval.



Recommendation 4: No further archaeological assessment is required in areas of low archaeological potential

No further archaeological work is required in areas identified as having low archaeological potential except in the event that unexpected Aboriginal sites, objects or human remains are unearthed during development (refer to Recommendations 9 and 10 below).

Recommendation 5: Fencing of AHIMS sites

AHIMS sites or PAD areas located within 30 metres of the area of proposed works should be clearly marked and fenced in order to avoid unintentional impacts during construction.

Recommendation 6: Aboriginal cultural heritage induction for workers and contractors

The locations of each AHIMS site and PAD area located within the Tallawarra Lands development should be clearly mapped. Workers and contactors working at, or visiting the site should be made aware of the location of all AHIMS sites and PAD areas within the Tallawarra Lands development through an Aboriginal cultural heritage induction.

Recommendation 7: Application for an Aboriginal heritage impact permit (AHIP)

Should the Development Application (DA) be approved, it is recommended that Cardno apply to OEH for an AHIP to destroy the listed Aboriginal sites within the study area which are currently protected under the NSW *National Parks and Wildlife Act 1974*. **The AHIP should be for a term of ten (10) years.** The sites that will be impacted by the proposed works are as follows

- TLPD AFT 7 (AHIMS 52-5-0613)
- TLPD AFT 8 (AHIMS 52-5-0614)
- TLPD AFT 9 (AHIMS 52-5-0615)
- Tallawarra Pipeline PAD 3 (AHIMS 52-5-0523)

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 Office of Environment and Heritage (OEH) 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 OEH. 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 OEH for the processing of AHIPs, which is dependent on the estimated total cost of the development project.

Recommendation 8: Cardno must abide by the conditions of the AHIP once obtained from OEH

The AHIP will be issued with conditions pertaining to the management and mitigation of Aboriginal heritage sites within the study area. These conditions will be outlined in Schedules A. B and C as follows:

- Schedule A: Aboriginal objects which must not be harmed.
- Schedule B: Aboriginal objects that may be harmed through certain actions.
- Schedule C: Aboriginal objects which may be harmed through the proposed works.



Cardno must undertake all further works to ensure the condition of the AHIP are met before construction begins.

Recommendation 9: Discovery of Unanticipated Aboriginal Objects

All Aboriginal objects and Places are protected under the *NSW National Parks and Wildlife Act 1974*. It is an offence to knowingly disturb an Aboriginal site without a consent permit issued by the OEH. Should any Aboriginal objects be encountered during works associated with this proposal, works must cease in the vicinity and the find should not be moved until assessed by a qualified archaeologist. If the find is determined to be an Aboriginal object, the archaeologist will provide further recommendations. These may include notifying the OEH and Aboriginal stakeholders.

Recommendation 10: 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
- 1. Notify the NSW Police and OEH's Environmental Line on 131 555 as soon as practicable and provide details of the remains and their location
- 2. Not recommence work at that location unless authorised in writing by the OEH.

Recommendation 11: Continued consultation with the registered Aboriginal stakeholders

As per the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010a), it is recommended that the proponent provides a copy of this report to the Aboriginal stakeholders and considers all comments received. The proponent should continue to inform these groups about the management of Aboriginal cultural heritage sites within the study area throughout the life of the project.



1 Introduction

1.1 Project background

Biosis Pty Ltd was commissioned by Cardno to undertake an Aboriginal cultural heritage assessment of a proposed residential development of the Tallawarra Central Precinct, Yallah NSW. This assessment will support an Environmental Impact Statement (EIS) application to modify the existing concept approval for the Central Precinct (MP 09_0131 MOD 1) to allow an increased residential lot yield.

The original concept approval (MP09_0131) was granted on 23 May 2013 by the Planning Assessment Commission as a delegate for the Minister for Planning and Infrastructure for a mixed use development including residential, commercial, industrial and retail development, public open space areas, new recreational facilities, environmental management, conservation areas and riparian corridors at Tallawarra Lands, Yallah.

A previous Aboriginal archaeological assessment for the Tallawarra Lands Part 3A Concept Plan (MP 09_0131) was conducted by Biosis in 2010. The previous assessment consisted of an Aboriginal archaeological survey, Aboriginal community consultation, and Aboriginal archaeological test excavations (Biosis 2010). An impact assessment conducted as part of the 2010 assessment concluded that three Aboriginal archaeological sites TLPD AFT-7 (AHIMS 52-5-0613), TLPD AFT-8 (AHIMS 52-5-0614), and TLPD AFT-9 (AHIMS 52-5-0615), along with a Fig Tree identified as having cultural significance; would be impacted on by the proposed development. Site Tallawara Pipeline PAD3 (AHIMS 52-5-0523) is also located within the study area however the previous assessment determined that it would not be impacted on.

All AHIMS sites located within the study area were assessed as having high cultural significance. TLPD AFT-7 (AHIMS 52-5-0613), TLPD AFT-8 (AHIMS 52-5-0614), and TLPD AFT-9 (AHIMS 52-5-0615) were assessed as having low archaeological significance, while Tallawara Pipeline PAD3 (AHIMS 52-5-0523) was determined to have unknown archaeological significance.

The majority of the Central Precinct study area was assessed as having moderate subsurface archaeological potential, with the northern section of the study area assessed as having low subsurface archaeological potential based on the results of the archaeological test excavations, and predictive modelling. The area along the first order tributary to Ducks Creek, located within the centre of the study area was assessed as having high subsurface archaeological potential. Further assessment in the form of additional archaeological test excavations in areas of high and moderate subsurface archaeological potential were recommended prior to development in order to establish the significance and extent of the archaeological resource.

The purpose of this assessment is to determine if the proposed modification will impact on any additional areas of archaeological potential or Aboriginal sites or objects; in particular Tallawara Pipeline PAD3 (AHIMS 52-5-0523). This investigation has been carried out under Part 6 of the *National Parks and Wildlife Act 1974* (NPW Act). It has been undertaken in accordance with the *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales* (DECCW 2010a) ('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.



1.2 Study area

The study area is located within the Tallawarra Central Precinct, Yallah NSW (Figure 1). It encompasses Lot 15 DP 1050255, Lot 1 DP 1146409, Lot 102 DP 716727, Lot 1 DP 551658, Lot 1 DP 543285, Lot 7 DP 1049520 and Lot 8 DP 1049520 and is approximately 14 kilometres south west of Wollongong central business district (CBD) Figure 2). The Central Precinct area covers 73.2 hectares of private access land.

The study area is within the:

- Wollongong Local Government Area (LGA).
- Parish of Calderwood
- County of Camden

The study area is bounded by Yallah Bay Road to the south, the Princes Motorway to the west, the suburb of Dapto to the north, and rural land to the east (Figure 2).

1.3 Proposed development

The Tallawarra Central Precinct comprises Lot 15 DP 1050255, Lot 1 DP 1146409, Lot 102 DP 716727, Lot 1 DP 551658, Lot 1 DP 543285, Lot 7 DP 1049520 and Lot 8 DP 1049520, with an area of 73.2 hectares. The development of the Central Precinct will comprise commercial, retail, industrial, open space and associated civil works (Figure 3). The modification to the concept approval seeks to increase the footprint and residential yield for the Central Precinct from 350 lots to 588 lots. Currently approved components of the concept plan for the Central Precinct include:

- Approximately 340 residential lots (27 hectares) and 10 large residential lots (11 hectares) to be modified to 588 residential lots
- A Neighbourhood Centre (4.25 hectares), incorporating a small supermarket, speciality shops, medical centre and child-care centre
- A tourism (2.5 hectares) use on the Lake foreshore headland at the eastern end of the precinct.
- An open space, incorporating the residential sports ground and Duck Creek riparian lands (109 hectares environmental and recreational)
- Industrial and light industrial uses (54 hectares)

The following amendments are proposed to the Concept Plan for the Central Precinct:

- Expand the R2 Zone (for low density residential development) east, into the E3 Environmental Management zone
- Expand the R2 zone (for low density residential) north into the R5 (large lot residential) zone
- Minor alterations to R2 zone (for low density residential development) into E3 Environmental Management Zone
- The composition of lots has been altered from the Concept Plan, with a new indicative layout that includes lots down to 300m² and 12.5 metres frontages, where suited to the topography of the site.



1.4 Planning approvals

The proposed development will be assessed under Part 3A section 75W of the *Environmental Planning and Assessment Act 1979* NSW (EP&A Act). Other relevant legislation and planning instruments that will inform this assessment include:

- Commonwealth Environmental Protection and Biodiversity Conservation Act 1999
- NSW National Parks and Wildlife Act 1974 (NPW Act)
- NSW National Parks and Wildlife Amendment Act 2010
- Infrastructure State Environmental Planning Policy 2007
- Wollongong Development Control Plan 2009.

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 +9000/-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. However, preliminary evidence presented by Biosis (2016) from a subsurface testing program in south-western NSW suggests Aboriginal people may have occupied the semi-arid zone of the region for 50,000 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 2010a 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 2010a p.iii).

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

- To provide a:
 - "connection and sense of belonging to Country" (DECCW 2010a p.iii)
 - Link between the present and the past (DECCW 2010a p.iii)
- As a learning tool to teach Aboriginal culture to younger Aboriginal generations and the general public (DECCW 2010a p.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 p.3).











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 study area is located within the coastal plain between the Illawarra Escarpment and Lake Illawarra (Figure 1).

2.1 Topography and hydrology

The Illawarra region forms part of the Sydney Basin; a geological basin filled with near horizontal sandstones and shales of Permian to Triassic age overlying older basement rocks of the Lachlan Fold Belt. The Illawarra subregion of the Sydney Basin is characterised by Permian siltstones, shale, sandstones and interbedded volcanics on and below the coastal escarpment. The geology of the region provides useful stone resources for toolmaking, including volcanic rocks useful for the manufacture of edge ground axes.

The study area is situated on the Coastal Plain on the edge of Lake Illawarra and the Escarpment. This physiographic unit has formed from the gradual recession westward of the Plateau (Bowman 1971). The Coastal Plain is characterised as a mosaic of foothills, ridges, spurs, hillocks and floodplains with slopes varying from very gently inclined to steep, with the occasional low cliff. It is dissected by easterly flowing streams at intervals that become more frequent towards the north (Fuller 1982, p.18). The Coastal Plain is widest at the points where the Macquarie Rivulet has entrenched into the Plateau at Macquarie Pass and where other waterways that provide the catchment area of Lake Illawarra carved into the Escarpment (Bowman 1971).

The Central Precinct is located approximately 750 metres inland from the shore of Lake Illawarra. Lake Illawarra was formed from the drowning of the Macquarie Rivulet valley during the raising of Holocene sea levels (6-7,000 years ago); the estuary was subsequently formed behind the large sand barrier that now forms the Windang Peninsula. Lake Illawarra is the largest estuarine lagoon on the south coast of NSW, covering an area of 33 square kilometres and extending over 9 kilometres in length and 5 kilometres in width. It receives salt water from the Pacific Ocean and fresh water from the Illawarra Escarpment (Roy 1984). Lake Illawarra is classified as an early Intermediate Barrier Estuary or an estuarine lagoon. Barrier estuaries are characterised by 'narrow elongated entrance channels with broad tidal and back barrier sand flats' (Roy 1984, p. 5).

One water stream also passes through the study area. This stream is a non-perennial tributary of Duck Creek, and so would not have contained water all year round.

Lake Illawarra, Duck Creek, and the first order creek running through the study area would have provided abundant food resources to Aboriginal groups in the area. It is likely that the proximity to water and food will have resulted in the presence of Aboriginal sites, such as middens, in the vicinity of the study area.

2.2 Soil landscapes

Soil landscapes have distinct morphological and topological characteristics that result in specific archaeological potential. Because 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. The study area contains one erosional soil landscape called the



Shellharbour soil landscape, one residual landscape called the Gwynneville soil landscape, and one swamp soil landscape called the Fairy Meadow soil landscape.

Erosional soil landscapes comprise soils that are derived from the erosive action of running water, primarily well-defined streams that have the ability to transport their sediment load. Soils may be either absent, derived from water-washed parent materials, or derived from *in situ* weathered bedrock. Residual soil landscapes are characterised by areas where soils are derived from the long-term, *in situ* weathering of parent materials. Examples of these types of soil landscapes are typically level to undulating elevated landforms, flats and plains, with poorly defined drainage lines. Swamp soil landscapes are dominated by ground surfaces and soils that are at least seasonally wet, with water tables frequently close to the surface. Soil parent material includes large amounts of accumulated decayed organic matter.

The characteristics of the Shellharbour soil landscape are summarised in Table 1.

Soil Landscape	Topography	Soils
Shellharbour	Rolling low hills with long side slopes and broad drainage lines. Relief 30-50 metres. Slopes <20% incline.	Crests and upper slopes: Hard setting black rich clays overlying <100 cm of brown strongly pedal heavy clay. Mid slopes: Up to 20 cm of brownish black sandy loam overlies <50 cm of strongly pedal reddish brown sandy clay. 50 cm of mottled reddish brown sandy clay overlies <50 cm of brown strongly pedal heavy clay. Foot slopes and drainage plains: Up to 40 cm of reddish brown sandy clay overlies >50 cm of strongly pedal brown heavy clay.

The Shellharbour soil landscape has a high to very high erodability rating and would therefore be susceptible to frequent soil movement (Hazelton 1992, pp. 58-60). This would result in poor preservation of archaeological material at shallow depths but would potentially lead to exposures of any deeper archaeological deposits were topsoil has eroded away.

The Gwynneville soil landscape has the following characteristics (Table 2):

Table 2	Gwynneville soil landscape characteristics (Hazelton and Tille 1990, pp. 38-40)
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Soil Landscape	Topography	Soils
Gwynneville	Undulating to steep hills with broad to moderate ridges, steeply inclined foot slopes, and isolated rises on the coastal plain. Local relief from 10-70 m, slopes 3- 25%.	Ridges: 10-30 cm of friable brown loam overlying bedrock. Upper and mid slopes: 10-30 cm of friable brown loam overlies 100 cm brown pedal clay. Lower slopes and localised position on mid slopes: 20-50 centimetres of brown pedal clay overlies brown pedal clay or bedrock.



The Gwynneville soil landscapes has a moderate soil erodability and would be susceptible to some soil movement as a result. The erodability combined with the shallow loam soils suggests that the preservation of archaeological material is likely to be poor throughout the study area.

The Fairy meadow soil landscape has the following characteristics (Table 3):

Soil Landscape	Topography	Soils
Fairy Meadow	Gently undulating alluvial plains including floodplains, valley flats, and terraces. Slopes greater than 5% and relief greater than 20 m.	Upper floodplains and terraces: Up to 20 cm of sandy loam overlying up to 40 cm of sand. Valley flats: Soils are highly variable but a typical soil consists of up to 40 cm of sandy clay loam overlying 50 cm of light clay and 80 cm of heavy clay.

 Table 3
 Fairy meadow soil landscape characteristics (Hazelton and Tille 1990, pp. 100-102)

The Fairy meadow soil landscape has a low soil erodability and would therefore preserve any potential subsurface deposits present; however, it is susceptible to flooding and seasonal waterlogging so sites are likely to be present only on raised landforms in this soil landscape (Hazelton and Tille 1990, pp. 100-102).

2.3 Landscape resources

The Coastal Plain of the Illawarra region provides a number of resources used by Aboriginal inhabitants. The geology of the region provides an abundant supply of raw materials. Quartz is the main stone raw material type suitable for Aboriginal tool manufacture that is likely to occur in the vicinity of the study area in any abundance. This would have been available locally and also from trading with other groups (Donlon and Sefton 1988, p. 23). Igneous material would have come from the south of the study area in areas like Gerringong (Donlon and Sefton 1988, p. 55) due to its volcanic nature. Some of the other fine grained siliceous material may have come from the Cumberland Plain. Silcrete cobbles are known to have occurred along the Cumberland Plain (McDonald 1992), to the north of the study area. Elsewhere on the Plain, the potential raw materials for stone artefact making include silicified wood, tuff, mudstone, quartz, quartzite and basalt. River gravels and cobbles containing silcrete, chert, and other fine grained volcanic rocks were also used (Attenbrow 2010). While previous archaeological work within the region has not identified any specific stone sources, the presence of the volcanic Dapto Latite Member in the region may have provided a suitable source of raw material, providing lithic material for stone axes. Resources would have been accessible in the outcrops of siltstone, shale and tuffaceous sandstones of the Berry Siltstone formation.

Aerial imagery and vegetation mapping undertaken by the National Parks and Wildlife Service (NPWS) shows that the study are has been cleared of native vegetation; however, native vegetation communities in the vicinity of the study area and around Lake Illawarra would have been comparable to vegetation found in the study area prior to clearing. These vegetation communities include (NPWS 2002):

 Lowland Woollybutt – Melaleuca Forest located on flat low-lying Shoalhaven Group sediments at elevations between 10 and 35 metres above sea level. It is characterised by the presence of Woolybutt (*Eucalyptus longifolia*), Stringybark (*E. globoidea/E. eugenioides*), and Honey Myrtle (*Melaleuca decora*).



• Coastal Swamp Oak Forest occurring in estuarine environment that include low-lying areas of coastal floodplain and the fringes of lakes and lagoons. Common and abundant species that occur include Swamp Oak (*Casuarina glauca*), Common Reed (*Phragmites australis*), and various sedges.

A number of these plant species would have been used by Aboriginal groups to make various wooden implements. Wood from the Swamp Oak was used to make tools such as nulla nullas, while the bark was removed and made into canoe hulls (Robinson 1991, p.152).

Local Aboriginal groups would have had access to an abundant range of marine, terrestrial and avian species present in the coastal resource zone which would have provided a variety of uses. Marine animals such as cockles, lobster and periwinkles were eaten). Abalone and stingrays were also used to make fish hooks and tools in addition to their use as a food source (Wesson 2009). Terrestrial species on the coastal plain, such as kangaroos, possums and wombats would have been exploited for food and to make cloaks, and tools (Attenbrow 2010). Avian species were used as a food source, and in the case of the pelican and black duck were often totem animals for Aboriginal groups (Wesson 2009).

2.4 European land use history

Within the proposed study area, soil disturbance is associated with historic pastoral land-use practices and recreational usage. The entire area between Koonawarra and Yallah bays have been subjected to extensive grazing and agricultural practices from the 1880's onwards (McDonald 1976). As well as vegetation clearing for pasture and agriculture, other land disturbances within the property include construction of the high voltage transmission lines and towers; recreational usage resulting in impact trails particularly by trail bikes and pedestrian traffic in the low lying areas along the foreshore.

Although these past land activities caused disturbances, they may have impacted only the surface contexts of any existing Aboriginal archaeological site; it is unlikely that they would have destroyed sites. Clearing of the land would have most likely removed a great number of native culturally modified trees.



3 Aboriginal cultural heritage context

3.1 Ethnohistory

Despite a proliferation of known indigenous sites there is considerable ongoing debate about the nature, territory and range of pre-contact indigenous language groups in the greater Sydney. These debates have arisen largely due to the lack of ethnographic and linguistic information recorded at the time of European contact. By the time colonial diarists, missionaries and proto-anthropologists began making detailed records of indigenous people in the late 19th century, pre-European indigenous groups had been broken up and reconfigured by European settlement activity. The following information relating to indigenous people on the Illawarra is based on early ethnographic accounts.

Although there are conflicting views between historical sources of the exact boundaries of tribal groups in the region, the linguistic evidence does identify distinct language groups at the time of European contact. Based on this information it appears that the study area was situated within the Tharawal (also Dharawal, Darawal, Carawal, Turawal, Thurawal) linguistic group. The named groups (often referred to as 'clans', 'bands' or 'tribes') belonging to the Tharawal/Dharawal language group included the following: Gweagal, Norongerraga, Illawarra, Threawal, Tagary, Wandeandega, Wodi Wodi and Ory-ang-ora (Tindale 1974). In his overview of Australian Aboriginal tribal boundaries, Tindale (1974:199-201), places the Illawarra area within the territories of the Wodi Wodi tribe (or 'named group'). Tindale (1940:194-195) describes the Wodi Wodi named group as occupying the area north of the Shoalhaven River to Wollongong.

The areas inhabited by each of the groups are considered to be indicative only and would have changed through time and possibly due to circumstances (i.e. availability and distribution of resources). The type and quantity of interactions between different social groupings would have varied with seasons and resource availability. Interactions between the groups inhabiting the many resource zones of the Sydney Basin (coastal and inland) would have varied but been continuous. This is reflected in the relatively homogenous observable cultural features such as art motifs, technology and resource use (McDonald 1992).

Ethnographic evidence considered by Donlon and Sefton (1988, pp. 22-29) indicates high population mobility on the Woronora Plateau with frequent contact between the neighbouring Gandangarra, Cobrakall (Liverpool and Cabramatta) and Wodi Wodi (Illawarra). The traditional Wodi Wodi land extended from around Stanwell Park to the Shoalhaven River, and as far inland as Picton, Moss Vale and Marulan. The Wodi Wodi spoke the Dharawal language, however Dharawal (Tharawal) was not a word they had heard of or used themselves (Tindale 1974).

The first European explorers in the area were Bass and Flinders when they travelled to Port Kembla in 1796. Flinders wrote about 'Canoe River' in his journal, making reference to the Lake Illawarra entrance (Flinders 1796 in Organ 1990, p.11).

'This part is called Alowrie, by the natives, and is very low and sandy near the sides of the rivulet. About four miles up it, to the north-west, is the lagoon: and behind, stands a semi-circular range of hills, of which the highest is Hat Hill. The water in the lagoon was distinctly seen, and appeared to be several miles in circumference. The land around it is probable fertile, and the slopes of the back hills had certainly that appearance.'

Lake Illawarra also provided a rich variety of food resources. Allan Cunningham, Government Botanist, wrote in 1818 (Organ 1990):



...we came out upon the margin of the Lake, which is extensive, but very shoaly on its expanded surface. Pelicans, ducks and teal and some other aquatic birds were swimming, and in detached parties I observed natives of the Lake...in canoes, spearing fish, which is said to be abundant.

After the arrival of European settlers the movement of Aboriginal hunter-gatherers began to be increasingly restricted. European expansion was swift following the initial exploration by Bass and Flinders, and soon there had been considerable loss of land to agriculture. This led to violence and conflict between Europeans and Aboriginal people as both groups sought to compete for the same resources. At the same time diseases such as small pox were having a devastating effect on the Aboriginal population. Death, starvation and disease were some of the disrupting factors that led to a reorganisation of the social practices of Aboriginal communities after European contact.

The formation of new social groups and alliances were made as Aboriginal people sought to retain some semblance of their previous lifestyle. In 1820, approximately 3000 Aboriginal people were living in the Illawarra, but by 1899 their numbers had declined to only 33 people of non-mixed descent (Organ 1990). Today many Wodi Wodi and Tharawal people continue to live in the Illawarra.

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:

- 52-5-0523 Tallawarra Pipeline PAD 3
- 52-5-0613 TLPD AFT 7
- 52-5-0614 TLPD AFT 8
- 52-5-0615 TLPD AFT 9

The archaeological report attached in Appendix 5 provides details for Aboriginal sites identified during the archaeological assessment. A brief description of each site is provided below and can be seen in Figure 4 and Figure 5.

52-5-0523 Tallawarra Pipeline PAD 3

This PAD site was registered by the Wadi Wadi Coomaditchie following the completion of a field survey for a proposed pipeline easement. The PAD area is situated on a mid-slope ridge on a moderate slope. It overlooks a small drainage feature to the south west and Duck Creek to the south.

52-5-0613 TLPD AFT 7

This site was recorded as a stone artefact scatter following test excavations conducted at the site. The excavations identified one chert core and one silcrete flake. The site was located on a drainage feature in an upper slope landform.

52-5-0614 TLPD AFT 8

The site was recorded as a stone artefact scatter located on a moderate slope north or Yallah Bay Road. Two artefacts were identified during test excavations of the site, consisting of one chert flake and one chert flake fragment.

52-5-0615 TLPD AFT 9

The site was recorded as an isolated artefact and was located on a spurline in a hillcrest landform. The artefact was uncovered during test excavations of the site and consisted of one piece of debitage. A fig tree



associated with site TLPD AFT 9 (AHIMS 52-5-0615) was identified as being culturally important in previous assessments (Biosis 2010). The fig tree is of cultural value as they are the main trees used for either men's business or women's business, as meeting places, and are known to be used in the area as birthing trees.

3.3 Interpretation of past Aboriginal land use

Ethno-historical information points out that the area was intensively occupied by people of the Dharawal language group. Tangible evidence of this occupation is reflected across the landscape by many recorded sites around Lake Illawarra, the majority of them shell middens and artefacts.

Previous archaeological work around Lake Illawarra has recognised archaeological and cultural landscape values of the locality. All of the previous studies provide a general overview of the Aboriginal archaeological site patterning and predictive behaviour around the lake. Results of previous archaeological assessments indicate that areas of archaeological potential will occur where disturbance has been limited in all the landforms around the lake, with shell middens and artefact sites most likely to be present in the area (Figure 5).

Due to the proximity of the study area to Lake Illawarra, it would have provided access to a range of terrestrial and aquatic flora and fauna species that could be utilised by Aboriginal groups in the region. Aquatic species in the area would have included a range of shellfish species that could be exploited, and this would result in the potential for shell midden sites in the study area. Several sites are recorded in the study area, including three isolated artefacts and a shell midden (Figure 4). This indicates that the study area was utilised by Aboriginal people in the past.





High
Moderate
Low



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:

- Wollongong City Council
- NSW Office of Environment and Water (OEH)
- 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 Coast Local Land Services
- Illawarra Local Aboriginal Land Council (ILALC).

A list of known Aboriginal stakeholders in the Illawarra was provided by OEH (a copy of these responses are provided in Appendix 2 and included:

A search conducted by the Office of the Registrar, Aboriginal Land Rights Act 1983 (NSW) listed no Aboriginal Owners with land within the study area. The National Native Title Tribunal did not respond to the request to find Aboriginal stakeholders. Both Wollongong City Council and South Coast Local Land Services recommended contacting OEH.

4.1.2 Public notice

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

• Illawarra Mercury (20 June 2017)

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 on 27 June 2017 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 14 groups registered their interest in the project. Responses to registration from Aboriginal parties are provided in Appendix 2. A full list of Aboriginal parties who registered for consultation is provided below:

- Illawarra Local Aboriginal Land Council (ILALC)
- Warra Bingi Nunda Gurri



- Woronora Plateau Gundangara Elders Council
- Darug Land Observations
- Three Ducks Dreaming Surveying and Consulting
- The Wadi Wadi Coomaditchie Aboriginal Corporation
- Guunamaa Dreaming and Sites Surveying

- James Davis
- Goobah Development Pty Ltd (Murrin Clan/Peoples)
- Murramarang (Murrin Clan/Peoples
- Minnamunnung
- Duncan Falk Consultancy
- Cullendulla (Murrin Clan/Peoples)
- Biamanga (Murrin Clan/Peoples)

4.2 Stage 2: Presentation of information about the proposed project

On 22 September 2017 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 22 September 2017 Biosis provided each RAP with a copy of the project methodology outlining the proposed Aboriginal cultural heritage assessment process and methodology for this project. RAPs were given 28 days to review and prepare feedback on the proposed methodology. A copy of the project methodology pack is provided in Appendix 3.

Biosis received comments from several RAPs, including Three Ducks Dreaming Surveying and Consulting, Darug Land Observations, Biamanga (Murrin Clan/Peoples), Cullendulla (Murrin Clan/Peoples), Goobah Development Pty Ltd (Murrin Clan/Peoples) and Murramarang (Murrin Clan/Peoples), who agreed with the project methodology. Three Ducks Dreaming Surveying and Consulting requested that any artefacts found are provided to the Illawarra Local Aboriginal Land Council for future educational design projects.

4.4 Stage 4: Review of draft Aboriginal cultural heritage assessment report

Following completion of the DRAFT Aboriginal cultural heritage assessment report, it was provided to RAPs on 2 November 2017 for review and comment. RAPs were given 28 days to provide comments. Comments on the draft report are provided in Appendix 4.

Responses on the report were received from Three Ducks Dreaminig, Guunamaa Dreaming Site and Surveying, Murramarang (Murrin Clan/Peoples), Cullendulla (Murrin Clan/Peoples), Biamanga (Murrin Clan/Peoples), Goobah Development Pty Ltd (Murrin Clan/Peoples) and Duncan Falk Consultancy. All groups agreed with the draft report. Duncan Falk Consultancy recommending that any artefacts found are reburied in an agreed location where they will not be impacted upon in the future, and also confirmed that Duncan Falk Consultancy holds evidence regarding language boundaries, noting that Dharawal ranged from the Illawarra to Bong Bong now known as the Southern Highlands and surrounding areas. Guunamaa Dreaming Sites and Surveying requested that only Aboriginal groups from the Illawarra be involved in any further work. Three Ducks Dreaming Surveying and Consulting believes there are many significant areas within the area, especially around the creeks and plains.



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 5.

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, 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 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 OEH 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 *Guide 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 (DECCWa 2010 p.iii). More specifically it provides a:

- "connection and sense of belonging to Country" (DECCW 2010a p.iii).
- Link between the present and the past (DECCWa 2010 p.3).
- A learning tool to teach Aboriginal culture to younger Aboriginal generations and the general public (DECCWa 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 (DECCWa 2010 p.3).

It is acknowledged that Aboriginal people are the primary determiners of the cultural significance of Aboriginal cultural heritage. Table 4 below outlines areas identified as having Aboriginal cultural significance based on the previous Aboriginal consultation for the study area in 2010 (Biosis 2010).

Table 4Areas of Aboriginal cultural sensitivity, identified through stakeholder consultation in
Biosis (2010)

Defined Area of Aboriginal Cultural Sensitivity	Description of component area	Identified Cultural Values
Duck Creek	Easterly trending creek with fluvial deposits located on the southern and	It would have been used as an access way to the lake and for its resources.



Defined Area of Aboriginal Cultural Sensitivity	Description of component area	Identified Cultural Values
	northern banks of the creek.	
Fig Tree	SSE trending basal slope	Men's business or women's business, a meeting place, birthing tree
Lake Illawarra Foreshore	Open, sloping lake shores and floodplain / swamp land	The lake itself, the foreshore, the midden sites and its association with the birth of Queen Rosie.
Wollingurry Point	Open low slope towards Lake Illawarra	Large midden site situated on a point that extends out into the lake
Ridgeline Access – Mt Brown to the Lake	Steep to moderate slopes trending south east towards Lake Illawarra	Ridgeline - access way from Mt Brown to Lake Illawarra - camping - vista
Mount Brown	Steep to moderate slopes trending south east towards Lake Illawarra	Mt Brown - lookout

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 5).

5.5 Aesthetic values

The study area has experienced low levels of disturbance including grazing and tree clearing practices. Power lines associated with Tallawarra power station also run through the south 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 due to its proximity to Lake Illawarra and the drainage line passing through the study area. The Illawarra Aboriginal community strongly identifies with the landscape of the study area.

5.6 Statement of significance

5.6.1 Statement of significance for 52-5-0523

This PAD site was registered by the Wadi Wadi Coomaditchie following the completion of a field survey for a proposed pipeline easement in 2010. The PAD area is situated on a mid-slope ridge on a moderate slope. It overlooks a small drainage feature to the south west and Duck Creek to the south. The Aboriginal community has indicated during previous consultation that the general area around Lake Illawarra has a high significance to the community, particularly to those who trace their ancestry to the Illawarra region. PAD sites represent a



common example of a site within the Illawarra region. However; archaeological testing has not been conducted at this site, therefore the site content and representativeness of the site cannot be adequately assessed. The site has no direct historical or aesthetic associations. This site has been assessed as having unknown scientific significance. The site displays low levels of disturbance and represents a common example of a site within the area. The site also has no direct historical or aesthetic associations and has a low scientific potential. The scientific significance of this site has been assessed as moderate (Table 5).

5.6.2 Statement of significance for 52-5-0613

This site was recorded as a stone artefact scatter following test excavations on which identified one chert core and one silcrete flake. The site was located on a drainage feature in an upper slope landform. The Aboriginal community has indicated during previous consultation that the general area around Lake Illawarra has a high significance to the community, particularly to those who trace their ancestry to the Illawarra region. The site displays low levels of disturbance and represents a common example of a site within the area. The site has no direct historical or aesthetic associations. The scientific significance of this site has been assessed as moderate (Table 5).

5.6.3 Statement of significance for 52-5-0614

Site 52-5-0614 was recorded as a stone artefact scatter located on a moderate slope north of Yallah Bay Road. Two artefacts were identified during test excavations of the site, consisting of one chert flake and one chert flake fragment. The Aboriginal community has indicated during previous consultation that the general area around Lake Illawarra has a high significance to the community, particularly to those who trace their ancestry to the Illawarra region. The site displays low levels of disturbance and represents a common example of a site within the area. The site has no direct historical or aesthetic associations. The scientific significance of this site has been assessed as moderate (Table 5).

5.6.4 Statement of significance for 52-5-0615

The site was recorded as an isolated artefact and was located on a spurline in a hillcrest landform. The artefact was uncovered during test excavations of the site and one piece of debitage was identified. A fig tree associated with TLPD AFT 9 (52-5-0615) was identified as being culturally important in previous assessments (Biosis 2010). The fig tree is of cultural value as they are the main trees used for either men's business or women's business, as meeting places, and are known to be used in the area as birthing trees. The site displays low levels of disturbance and represents a common example of a site within the area. The site has no direct historical or aesthetic associations. The Aboriginal community has indicated during consultation that the general area around Lake Illawarra has a high significance to the community, particularly to those who trace their ancestry to the Illawarra region. The scientific significance of this site has been assessed as moderate (Table 5).

Site name	Criteria	Ranking
Tallawarra Pipeline PAD 3 52-5-0523	Cultural – discussions with the local Aboriginal communities reflect that the site is high in value due to its proximity to Lake Illawarra.	High
	Historical – the site is not connected to any historical event or personage.	Low
	Scientific – the site represents a potential archaeological deposit and so possesses some archaeological values.	Unknown

Table 5 Significance assessment criteria



Site name	Criteria	Ranking	
	Aesthetic – Located on the western side of a large gully in the north-western corner of the Study Area. The site is close to a series of powerlines and has low aesthetic value as a result	Low	
TLPD AFT 7 52-5-0613	Cultural – discussions with the local Aboriginal communities reflect that the site is high in value due to its proximity to Lake Illawarra.	High	
	Historical – the site is not connected to any historical event or personage.	Low	
	Scientific – the site contains one chert and one silcrete stone artefact and is a common site type in the region. The site displays low levels of disturbance. It has moderate scientific value.	Moderate	
	Aesthetic – located on the eastern side of a large gully in the north-western corner of the Study Area. The site is close to a series of powerlines and has low aesthetic value as a result	Low	
TLPD AFT 8 52-5-0614	Cultural – discussions with the local Aboriginal communities reflect that the site is high in value due to its proximity to Lake Illawarra.	High	
	Historical – the site is not connected to any historical event or personage.	Low	
	Scientific – the site contains two chert stone artefact and is a common site type in the region. The site displays low levels of disturbance. It has moderate scientific value.	Moderate	
	Aesthetic – Located on the western side of a large gully in the north-western corner of the study area. The site is close to a series of powerlines and has low aesthetic value as a result	Low	
TLPD AFT 9 52-5-0615	Cultural – discussions with the local Aboriginal communities reflect that the site is high in value due to its proximity to Lake Illawarra. A fig tree associated with TLPD AFT 9 (52-5-0615) was identified as being culturally important in previous assessments (Biosis 2010). The fig tree is of cultural value as they are the main trees used for either men's business or women's business, as meeting places, and are known to be used in the area as birthing trees.	High	
	Historical – the site is not connected to any historical event or personage.	Low	
	Scientific – the site contains one piece of debitage. Stone artefacts are a common site type in the region. The site displays low levels of disturbance. It has moderate scientific value.	Moderate	
	Aesthetic – located on the western boundary of the Study Area approximately 100m east of Cormack Avenue. The site is close to a series of powerlines and has low aesthetic value as a result	Low	



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

- Requirements of the Code
- The Burra Charter
- Guide to Investigating and reporting on Aboriginal Heritage.

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 5.



6 Proposed development limitations & mitigation measures

As previously outlined, Cardno on behalf of Bridgehill is proposing to submit a development application for the Tallawarra Lands Central Precinct and to modify the existing concept approval for the Central Precinct (MP 09_0131 MOD 1) to allow an increased residential lot yield.

The proposed works will include earthworks, the construction of new residential dwellings and associated infrastructure including roads, underground piping and cabling, and associated earthworks.

The proposed development will involve the following activities that have the potential to impact on Aboriginal archaeological sites or objects:

- earthworks
- subdivision
- new housing stock
- public open space areas
- new recreation facilities
- environmental management and conservation areas and riparian corridors
- new internal roads
- new pedestrian and cycle pathways
- landscaping
- power station buffer areas
- installation of services (water, gas, power).

Within the study area, there are four recorded Aboriginal sites that may be subject to harm. It is expected that the potential of harm to Aboriginal archaeological sites Tallawarra Pipeline PAD 3 (52-5-0523), TLPD AFT 7 (52-5-0613), TLPD AFT 8 (52-5-0614), and TLPD AFT 9 (52-5-0615) from the proposed development will be direct, with a total loss of value (Figure 6).

A summary of the potential impacts of the proposed works on known Aboriginal sites within the study area is provided in Table 6.

AHIMS site no.	Site name	Significance	Type of harm	Degree of harm	Consequence of harm
52-5-0523	Tallawarra Pipeline PAD 3	Moderate	Direct	Total	Total loss of value
52-5-0613	TLPD AFT 7	Low	Direct	Total	Total loss of value
52-5-0614	TLPD AFT 8	Low	Direct	Total	Total loss of value
52-5-0615	TLPD AFT 9	Low	Direct	Total	Total loss of value

Table 6 Summary of potential archaeological impact


6.1 Avoiding harm to Aboriginal heritage

Aboriginal sites Tallawarra Pipeline PAD 3 (52-5-0523), TLPD AFT 7 (52-5-0613), TLPD AFT 8 (52-5-0614), and TLPD AFT 9 (52-5-0615) are located within the development footprint and impacts to these sites cannot be avoided.

Strategies to minimise harm to Aboriginal heritage in or adjacent to the study area are discussed below.

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 and Walker 1994: 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.

Tallawarra Pipeline PAD 3 (52-5-0523) has been assessed as having unknown scientific significance. The development cannot avoid impacts to Tallawarra Pipeline PAD 3 (52-5-0523), further archaeological assessment in the form of subsurface investigations (archaeological test excavations) will be required in order to mitigate any development impacts (Figure 6).

TLPD AFT 7 (52-5-0613), TLPD AFT 8 (52-5-0614), and TLPD AFT 9 (52-5-0615) have been assessed as having moderate scientific significance. All four sites are currently located within the proposed development area and impacts on them cannot be avoided (Figure 6).

Prior assessment by Biosis (2010) identified areas of high and moderate potential within the study area and, even though a limited program of test excavations was conducted, further testing is recommended to fully identify the nature and extent of Aboriginal occupation (Figure 5).

Furthermore, the conservation and integration of the Fig Tree associated with site TLPD AFT 9 (52-5-0615) should be incorporated into modification of the concept approval.





7 Recommendations

The recommendations below respond specifically to the wishes of the registered Aboriginal parties. Recommendations regarding the archaeological value of the site, and the subsequent management of Aboriginal cultural heritage is provided in the archaeological report (Appendix 5).

Recommendation 1: Further archaeological assessment is required in areas of moderate and high archaeological potential

Areas identified as having high and moderate archaeological potential should be avoided wherever possible (Figure 5). If impact to these areas cannot be avoided subsurface investigations (test excavations) will be required prior to the commencement of works as a condition of the DA or concept approval. Test excavations should be conducted in accordance with the *Code of Practice for archaeological investigation for Aboriginal objects in NSW* (DECCW 2010b) and *Aboriginal cultural heritage consultation requirements for proponents in New South Wales* (DECCW 2010a).

Recommendation 2: Further archaeological assessment is required at Tallawarra Pipeline PAD 3 (AHIMS 52-5-0523)

If impacts to Tallawarra Pipeline PAD 3 (AHIMS 52-5-0523) cannot be avoided, subsurface investigations (test excavations) will be required prior to the commencement of works as a condition of the DA or concept approval. Test excavations should be conducted in accordance with the *Code of Practice for archaeological investigation for Aboriginal objects in NSW* (DECCW 2010b) and *Aboriginal cultural heritage consultation requirements for proponents in New South Wales* (DECCW 2010a).

Recommendation 3: Conservation of Fig Tree associated with TLPD AFT 9 (AHIMS 52-5-0615)

If possible the Fig Tree associated with TLPD AFT 9 (AHIMS 52-5-0615) should be conserved and incorporated into the modification of the concept approval.

Recommendation 4: No further archaeological assessment is required in areas of low archaeological potential

No further archaeological work is required in areas identified as having low archaeological potential except in the event that unexpected Aboriginal sites, objects or human remains are unearthed during development (refer to Recommendations 9 and 10 below).

Recommendation 5: Fencing of AHIMS sites

AHIMS sites or PAD areas located within 30 metres of the area of proposed works should be clearly marked and fenced in order to avoid unintentional impacts during construction.

Recommendation 6: Aboriginal cultural heritage induction for workers and contractors

The locations of each AHIMS site and PAD area located within the Tallawarra Lands development should be clearly mapped. Workers and contactors working at, or visiting the site should be made aware of the location of all AHIMS sites and PAD areas within the Tallawarra Lands development through an Aboriginal cultural heritage induction.



Recommendation 7: Application for an Aboriginal heritage impact permit (AHIP)

Should the Development Application (DA) be approved, it is recommended that Cardno apply to OEH for an AHIP to destroy the listed Aboriginal sites within the study area which are currently protected under the NSW *National Parks and Wildlife Act 1974*. **The AHIP should be for a term of ten (10) years.** The sites that will be impacted by the proposed works are as follows

- TLPD AFT 7 (AHIMS 52-5-0613)
- TLPD AFT 8 (AHIMS 52-5-0614)
- TLPD AFT 9 (AHIMS 52-5-0615)
- Tallawarra Pipeline PAD 3 (AHIMS 52-5-0523)

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 Office of Environment and Heritage (OEH) 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 OEH. 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 OEH for the processing of AHIPs, which is dependent on the estimated total cost of the development project.

Recommendation 8: Cardno must abide by the conditions of the AHIP once obtained from OEH

The AHIP will be issued with conditions pertaining to the management and mitigation of Aboriginal heritage sites within the study area. These conditions will be outlined in Schedules A. B and C as follows:

- Schedule A: Aboriginal objects which must not be harmed.
- Schedule B: Aboriginal objects that may be harmed through certain actions.
- Schedule C: Aboriginal objects which may be harmed through the proposed works.

Cardno must undertake all further works to ensure the condition of the AHIP are met before construction begins.

Recommendation 9: Discovery of Unanticipated Aboriginal Objects

All Aboriginal objects and Places are protected under the *NSW National Parks and Wildlife Act 1974*. It is an offence to knowingly disturb an Aboriginal site without a consent permit issued by the OEH. Should any Aboriginal objects be encountered during works associated with this proposal, works must cease in the vicinity and the find should not be moved until assessed by a qualified archaeologist. If the find is determined to be an Aboriginal object, the archaeologist will provide further recommendations. These may include notifying the OEH and Aboriginal stakeholders.

Recommendation 10: 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 OEH'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 to the OEH.

Recommendation 11: Continued consultation with the registered Aboriginal stakeholders

As per the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010a), it is recommended that the proponent provides a copy of this report to the Aboriginal stakeholders and considers all comments received. The proponent should continue to inform these groups about the management of Aboriginal cultural heritage sites within the study area throughout the life of the project.



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Appendices



Appendix 1 Consultation log

A1.1 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
Wollongong City Council (WCC)	15/06/2017 - Letter	29/06/2017 - email	Encouraged to refer to OEH List
NSW Office of Environment and Water (OEH)	15/06/2017 - Letter	26/08/2017 - email	Provided list of Aboriginal stakeholders
NSW Native Title Services Corporation Limited (NTSCORP Limited)	15/06/2017 - Letter	N/A	
Office of the Registrar, Aboriginal Land Rights Act 1983 of Aboriginal Owners	15/06/2017 - Letter	26/08/2017 - email	Indicated there were no Aboriginal owners and to contact ILALC
National Native Title Tribunal (NNTT)	15/06/2017 - Letter	N/A	
South East Local Land Services	15/06/2017 - Letter	23/06/2017- letter	Recommended to contact OEH
Illawarra Local Aboriginal Land Council (ILALC)	15/06/2017 - Letter	N/A	

Step 2- Public advertisement

The public notice was published in the Illawarra Mercury on the 20 June 2017. A copy of the advertisement is provided in Appendix 2.

Step 3- Registration of interest.

The registration period ran from the 27 June 2017 to the 11 June 2017. 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)	27/06/2017 - email	N/A	N/A
Bellambi Indigenous Corporation Gandangarra Traditional Owners	27/06/2017 - email	N/A	N/A



Organisation contacted	Date and type of contact	Date and type of response	Response details
Biamanga (Murrin Clan/Peoples)	27/06/2017 - email	10/07/2017 - email	Registered interest
Bilinga (Murrin Clan/Peoples)	27/06/2017 - email	N/A	N/A
Bilinga Cultural Heritage Technical Services (Mirramajah)	27/06/2017 - email	N/A	N/A
Coomaditchie United Aboriginal Corporation	27/06/2017 - email	N/A	N/A
Cullendulla (Murrin Clan/Peoples)	27/06/2017 - email	10/07/2017 - email	Registered interest
Darug Land Observations	27/06/2017 - email	21/06/2017 - email	Registered interest
Dharug (Murrin Clan/Peoples)	27/06/2017 - email	N/A	N/A
Duncan Falk Consultancy	27/06/2017 - email	10/07/2017 - email	Registered interest
Gadhu Dreaming	27/06/2017 - email	N/A	N/A
Garrara Aboriginal Corporation	27/06/2017 - email	N/A	N/A
Goobah Development Pty Ltd (Murrin Clan/Peoples)	27/06/2017 - email	10/07/2017 - email	Registered interest
Gundungurra Tribal Technical Services	27/06/2017 - email	N/A	N/A
Gunyuu (Murrin Clan/Peoples)	27/06/2017 - email	N/A	N/A
Gunyuu Cultural Heritage Technical Services (Mirramajah)	27/06/2017 - email	N/A	N/A
Guunamaa Dreaming Sites and Surveying	27/06/2017 - letter	27/06/2017 - email	Registered interest
Illawarra Aboriginal Corporation	27/06/2017 - email	N/A	N/A
Illawarra Local Aboriginal Land Council	27/06/2017 - email	N/A	N/A
Jerringong (Murrin Clan/Peoples)	27/06/2017 - email	N/A	N/A
Karrial (Murrin Clan/Peoples)	27/06/2017 - letter	N/A	N/A
Korewal Elouera Jerrungurah Tribal Elders Council	27/06/2017 - letter	N/A	N/A



Organisation contacted	Date and type of contact	Date and type of response	Response details
Kulila Site Consultants & Koori Site Management	27/06/2017 - letter	N/A	N/A
La Perouse Botany Bay Corporation	27/06/2017 - email	N/A	N/A
Minnamunnung	27/06/2017 - email	10/07/2017 - email	Registered interest
Munyunga (Murrin Clan/Peoples)	27/06/2017 - email	N/A	N/A
Munyunga Cultural Heritage Technical Services (Mirramajah)	27/06/2017 - email	N/A	N/A
Murramarang (Murrin Clan/Peoples)	27/06/2017 - email	10/07/2017 - email	Registered interest
Murrumbul (Murrin Clan/Peoples)	27/06/2017 - email	N/A	N/A
Murrumbul Cultural Heritage Technical Services (Mirramajah)	27/06/2017 - letter	N/A	N/A
NIAC	27/06/2017 - email	N/A	N/A
Nundagurri (Murrin Clan/Peoples)	27/06/2017 - email	N/A	N/A
Pemulwuy (Murrin Clan/Peoples)	27/06/2017 - letter	N/A	N/A
South West Rocks Corporation	27/06/2017 - letter	N/A	N/A
The Wodi Wodi Elders Corporation	27/06/2017 - email	N/A	N/A
Three Ducks Dreaming Surveying and Consulting	27/06/2017 - email	27/06/2017 - email	Registered interest
Walbunja (Murrin Clan/Peoples)	27/06/2017 - email	N/A	N/A
Walgalu (Murrin Clan/Peoples)	27/06/2017 - email	N/A	N/A
Warra Bingi Nunda Gurri	27/06/2017 - email	21/06/2017 - email	Registered interest
Wingikara Cultural Heritage Technical Services (Mirramajah)	27/06/2017 - email	N/A	N/A
Gary Caines	27/06/2017 - email	N/A	N/A
James Davis	27/06/2017 - letter	30/06/2017 - email	Registered interest



Organisation contacted	Date and type of contact	Date and type of response	Response details
Ken Foster	27/06/2017 - letter	N/A	N/A
Norman Simms	27/06/2017 - email	N/A	N/A
Woronora Plateau Gundungara Elders Council	27/06/2017 - email	27/06/2017 - email	Registered interest
Wullung (Murrin Clan/Peoples)	27/06/2017 - email	N/A	N/A
Yerramurra (Murrin Clan/Peoples)	27/06/2017 - letter	N/A	N/A
The Wadi Wadi Coomaditchie Aboriginal Corporation	27/06/2017 - email	28/06/2017 - verbal	Registered interest
Tungai Tonghi	27/06/2017 - email	N/A	N/A

A1.2 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
Biamanga (Murrin Clan/Peoples)	22/09/2017 – Email	19/10/2017 – email	Confirmed support for proposed draft ACHA methodology; requested that any artefacts found are given to the Illawarra Local Aboriginal Land Council for future educational design projects.
Cullendulla (Murrin Clan/Peoples)	22/09/2017 – Email	19/10/2017 – email	Confirmed support for the ACHA report.
Darug Land Observations	22/09/2017 – Email	29/09/2017 – email	Jamie Workman contacted Biosis on behalf of Darug Land Observations in response to the methodology. Darug Land Observation Pty Ltd suports the methodology, and wishes to be involved in the monitoring of the topsoil removal, test excavations, and any other works to be carried out.
Duncan Falk Consultancy	22/09/2017 – Email	N/A	
Goobah Development Pty Ltd (Murrin Clan/Peoples)	22/09/2017 – Email	19/10/2017 - email	Confirmed support for proposed draft ACHA methodology, wishes to be kept informed of any further developments.
Guunamaa Dreaming Sites and Surveying	22/09/2017 – Email	N/A	



Organisation contacted	Date and type of contact	Date and type of response	Response details
Illawarra Local Aboriginal Land Council	22/09/2017 – Email	N/A	
Individual	22/09/2017 – Email	N/A	
Minnamunnung	22/09/2017 – Email	N/A	
Murramarang (Murrin Clan/Peoples)	22/09/2017 – Email	19/10/2017 - email	Confirmed support for proposed draft ACHA methodology, wishes to be kept informed of any further developments.
The Wadi Wadi Coomaditchie Aboriginal Corporation	22/09/2017 – Post	N/A	
Three Ducks Dreaming Surveying and Consulting	22/09/2017 – Email	22/09/2017 - email	Confirmed support for proposed draft ACHA methodology; requested that any artefacts found are given to the Illawarra Local Aboriginal Land Council for future educational design projects.
Warra Bingi Nunda Gurri	22/09/2017 – Email	N/A	
Woronora Plateau Gundangara Elders	22/09/2017 – Email	N/A	

A1.3 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 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
Biamanga (Murrin Clan/Peoples)	22/09/2017 – Email	19/10/2017 – email	Confirmed support for proposed draft ACHA methodology; requested that any artefacts found are given to the Illawarra Local Aboriginal Land Council for future educational design projects.
Cullendulla (Murrin Clan/Peoples)	22/09/2017 – Email	19/10/2017 – email	Confirmed support for the ACHA report.
Darug Land Observations	22/09/2017 – Email	29/09/2017 – email	Jamie Workman contacted Biosis on behalf of Darug Land Observations in response to the methodology. Darug Land Observation Pty Ltd suports the methodology, and wishes to be involved in the monitoring of the topsoil removal, test excavations, and any other works to be carried out.
Duncan Falk Consultancy	22/09/2017 -	N/A	



Organisation contacted	Date and type of contact	Date and type of response	Response details
	Email		
Goobah Development Pty Ltd (Murrin Clan/Peoples)	22/09/2017 – Email	19/10/2017 - email	Confirmed support for proposed draft ACHA methodology, wishes to be kept informed of any further developments.
Guunamaa Dreaming Sites and Surveying	22/09/2017 – Email	N/A	
Illawarra Local Aboriginal Land Council	22/09/2017 – Email	N/A	
James Davis (individual)	22/09/2017 – Email	N/A	
Minnamunnung	22/09/2017 – Email	N/A	
Murramarang (Murrin Clan/Peoples)	22/09/2017 – Email	19/10/2017 - email	Confirmed support for proposed draft ACHA methodology, wishes to be kept informed of any further developments.
The Wadi Wadi Coomaditchie Aboriginal Corporation	22/09/2017 – Letter	N/A	
Three Ducks Dreaming Surveying and Consulting	22/09/2017 – Email	22/09/2017 - email	Confirmed support for proposed draft ACHA methodology; requested that any artefacts found are given to the Illawarra Local Aboriginal Land Council for future educational design projects.
Warra Bingi Nunda Gurri	22/09/2017 – Email	N/A	
Woronora Plateau Gundangara Elders	22/09/2017 – Email	N/A	

A1.4 Stage 4 – Review of Draft Aboriginal Cultural Heritage Assessment

A copy of the correspondence relevant to this stage of consultation is available in Appendix 4.

Organisation contacted	Date and type of contact	Date and type of response	Response details
Biamanga (Murrin Clan/Peoples)	02/11/2017 - Email	28/11/2017 - Email	Confirmed support for draft ACHA and AR.
Cullendulla (Murrin Clan/Peoples)	02/11/2017 - Email	28/11/2017 - Email	Confirmed support for draft ACHA and AR.
Darug Land Observations	02/11/2017 - Email	N/A	



Organisation contacted	Date and type of contact	Date and type of response	Response details
Duncan Falk Consultancy	02/11/2017 - Email	28/11/2017 - Email	Confirmed support for draft ACHA and AR; recommended that any artefacts found are reburied in an agreed location where they will not be impacted upon in the future. Confirmed that Duncan Falk Consultancy holds evidence regarding language boundaries, noting that Dharawal ranged from the Illawarra to Bong Bong now known as the Southern Highlands and surrounding areas.
Goobah Development Pty Ltd (Murrin Clan/Peoples)	02/11/2017 - Email	28/11/2017 - Email	Confirmed support for draft ACHA and AR; wishes to be kept informed of any further developments.
Guunamaa Dreaming Sites and Surveying	02/11/2017 - Email	06/11/2017 – Email	Confirmed support for draft ACHA and AR; request for Aboriginal groups from Illawarra only to be involved.
Illawarra Local Aboriginal Land Council (ILALC)	02/11/2017 - Email	N/A	
Minnamunnung	02/11/2017 - Email	N/A	
Murramarang (Murrin Clan/Peoples)	02/11/2017 - Email	28/11/2017 - Email	Confirmed support for draft ACHA and AR.
The Wadi Wadi Coomaditchie Aboriginal Corporation	02/11/2017 - Letter	N/A	
Three Ducks Dreaming Surveying and Consulting	02/11/2017 - Email	06/11/2017 - Email	Confirmed support for draft ACHA and AR; believes there are many significant areas within the area, especially around the creeks and plains.
Warra Bingi Nunda Gurri	02/11/2017 - Email	N/A	
Woronora Plateau Gundangara Elders Council	02/11/2017 - Email	N/A	
James Davis (individual)	02/11/2017 - Email	N/A	



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

Tuesday, June 20, 2017 ILLAWARRA MERCURY 23



For more information please contact: Daniel Thompson P.O. Box 1285 Wollongong NSW 2500	ladies to town dally.Erotic rub.Busty.M2M.Cheap Rates. 0458704535	Parking A/C Eftpos View Phoenix55 website	Creative design	suite of professional design and print solutions for any business without the expensive
daniel.thompson@cardno.com.au To register in writing please contact: Taryn Gooley Biosis Pty Ltd	 At Fairy Meadow Full Body Relaxing Thai Massage - Essential Oils 	***At Oak Flats *** New Management Exotic Asian Ladies	and print solutions for any platform	commercial design agency costs.
Suite 8, 27 Annie Street Wickham NSW 2293 tgooley@biosis.com.au	Ph 4285 0636 - 7 Days 10am - 7pm	Ready To Please Double Special Ph: 4256-8003	designlink@fairfaxmed	Fairfax Media
REGISTRATIONS MUST BE RECEIVED BEFORE 5.00pm 4th July 2017	78-80 Princes Hwy, Fairy Meadow	115 Industrial Rd, Oak Flats Visit our website: Blueangels		

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Wollongong City Council Locked Bag 8821, Wollongong DC NSW 2500

To Whom It May Concern,

RE: Proposed Development of Northern and Central Precincts at Tallawarra, Yallah NSW – Aboriginal cultural heritage assessment

Our Ref: Matter 24090

Cardno, on behalf of Bridgehill Group, intends to lodge a development application for the Northern Precinct and to modify the existing concept approval for the Northern and Central Precinct at Tallawarra, Yallah (MP 09_0131 MOD 1). The Northern Precinct covers an area of 45.06 hectares, while the Central Precincts comprises two areas of 73.2 hectares and 6.497 hectares respectively. Table 1 and Table 2 below, detail the Lot and DP's for each precinct.

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

Daniel Thompson P.O. Box 1285 Wollongong NSW 2500 daniel.thompson@cardno.com.au

Biosis Pty Ltd Newcastle Resource Group

Suite 8, 27 Annie Street Wickham NSW 2293 Phone: 02 4911 4040



Taryn Gooley Biosis Pty Ltd Suite 8, 27 Annie Street Wickham NSW 2293 tgooley@biosis.com.au

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

Yours sincerely,

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Taryn Gooley Archaeologist 0407 980 961 (02) 4911 4041 tgooley@biosis.com.au

Table 1Central precinct Lot and DP's

Lot	DP
1	551658
102	716727
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7	1049520
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Table 2

Northern precinct Lot and DP's

Lot	DP
30	1175058
31	1175058



Illawarra Local Aboriginal Land Council 3 Ellen Street Wollongong NSW 2500

To Whom It May Concern,

RE: Proposed Development of Northern and Central Precincts at Tallawarra, Yallah NSW – Aboriginal cultural heritage assessment

Our Ref: Matter 24090

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Rose O'Sullivan Office of Environment and Heritage PO Box 5436 Wollongong NSW 2520

Dear Rose,

RE: Proposed Development of Northern and Central Precincts at Tallawarra, Yallah NSW – Aboriginal cultural heritage assessment

Our Ref: Matter 24090

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Daniel Thompson P.O. Box 1285 Wollongong NSW 2500 daniel.thompson@cardno.com.au

Biosis Pty Ltd
Newcastle Resource Group

Suite 8, 27 Annie Street Wickham NSW 2293 Phone: 02 4911 4040

ACN 006 175 097 ABN 65 006 175 097

Email: newcastle@biosis.com.au



Taryn Gooley Biosis Pty Ltd Suite 8, 27 Annie Street Wickham NSW 2293 tgooley@biosis.com.au

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Yours sincerely,

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Stephen Wright, Registrar Office of the Registrar, Aboriginal Land Rights Act 1983 PO Box 112 Glebe NSW 2037

Dear Stephen,

RE: Proposed Development of Northern and Central Precincts at Tallawarra, Yallah NSW – Aboriginal cultural heritage assessment

Our Ref: Matter 24090

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Daniel Thompson P.O. Box 1285 Wollongong NSW 2500 daniel.thompson@cardno.com.au

Biosis Pty Ltd Newcastle Resource Group

Suite 8, 27 Annie Street Wickham NSW 2293 Phone: 02 4911 4040

ACN 006 175 097 ABN 65 006 175 097



Taryn Gooley Biosis Pty Ltd Suite 8, 27 Annie Street Wickham NSW 2293 tgooley@biosis.com.au

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Yours sincerely,

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Native Title Services Corporation Limited PO Box 2105 Strawberry Hills NSW 2012

To Whom It May Concern,

RE: Proposed Development of Northern and Central Precincts at Tallawarra, Yallah NSW – Aboriginal cultural heritage assessment

Our Ref: Matter 24090

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Email: <u>newcastle@biosis.com.au</u>



Taryn Gooley Biosis Pty Ltd Suite 8, 27 Annie Street Wickham NSW 2293 tgooley@biosis.com.au

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National Native Title Tribunal New South Wales Registry GPO Box 9973 Sydney NSW 2001

To Whom It May Concern,

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South East Local Land Services PO Box 3095 Wollongong East NSW 2520

To Whom It May Concern,

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ACN 006 175 097 ABN 65 006 175 097

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Lot	DP
30	1175058
31	1175058



RECEIVED

CARDNO (NSWIACT) Pty Lid

2 9 JUN 2017

23 June 2017

TRIM Ref: DOC17/64477

Attn: Mr Daniel Thompson Biosis PO Box 1285 Wollongong NSW 2500

Dear Daniel

Re: YALLAH NSW : Proposed Development of Northern and Central Precincts at Tallawarra : Identification of Aboriginal Interested Parties

Thank you for your letter dated 15 June 2017 requesting assistance with identifying Aboriginal stakeholder groups or persons who may have an interest in your project area.

Catchment Management Authorities are listed in Section 4.1.2 (g) of the Aboriginal cultural heritage consultation requirements for proponents 2010, under Part 6, National Parks and Wildlife Act 1974 as a source of information to obtain the "names of Aboriginal people who may hold cultural knowledge relevant to determining the significance of Aboriginal objects and/or places". We understand that with the loss of Catchment Management Authorities in NSW such requests are likely to be forwarded to Local Land Services.

South East Local Land Services is a partner with many Aboriginal communities in the region on natural resource management (NRM) projects. We are not, however, the primary source for contacting or managing contact lists for Aboriginal communities or persons that may inform or provide comment on planning issues. Currently we do not coordinate or administer any Aboriginal reference group for our region.

We strongly recommend that you make contact with the Office of Environment and Heritage (OEH), Cultural Heritage Division, Queanbeyan on T:02 6229 7188 for all-inclusive contact lists of persons and organisations that may assist with your investigation.

Yours sincerely,

Kerry Avery Aboriginal Community Support Officer South East Local Land Services



Taryn Gooley Biosis Pty Ltd Suite 8 27 Annie Street Wickham NSW 2293

By email: tgooley@biosis.com.au

Dear Taryn

REQUEST FOR INFORMATION ABOUT POTENTIAL ABORIGINAL STAKEHOLDERS AS REQUIRED UNDER OEH ABORIGINAL CULTURAL HERITAGE CONSULTATION REQUIREMENTS FOR PROPONENTS 2010

RE: Northern and Central Precincts, Tallawarra, Yallah

Thank you for your request dated 22 June 2017 regarding the above matter. Attached is a list of known Aboriginal parties for the Wollongong Local Government Area. OEH believes these groups and individuals are likely to have an interest in the project.

The consultation process involves getting the views of, and information from, Aboriginal people and reporting on these. It is not to be confused with other field assessment processes involved in preparing a proposal and a permit application. Consultation does not include the employment of Aboriginal people to assist in field assessment and/or site monitoring. Aboriginal people may provide services to proponents through a contractual arrangement, however, this is separate from consultation. The proponent is not obliged to employ those Aboriginal people registered for consultation. Consultation as per the requirements will continue irrespective of potential or actual employment opportunities for Aboriginal people.

This list is not necessarily an exhaustive list of all interested Aboriginal parties and does not remove the requirement of a proponent or consultant to advertise in local print media and contact other groups in accordance with the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (April 2010).

The contact details in the attached list are provided solely for the purpose of contacting people about this project. The contact details must remain private and must not be reproduced in publically available reports or other documents.

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

Please note that the contact details in the list provided by OEH may be out of date as the list relies on Aboriginal parties advising OEH when their details need changing. If you are aware of any incorrect contact details on the list please contact OEH. AHIP applicants should make a note of any group they are unable to contact as part of their consultation record.

If you wish to discuss any of the above matters further please contact Rose O'Sullivan on 4224 4177.

Yours sincerely

Loc 1 Chris Page Senior Team Leader, Planning – Illawarra Regional Operations Group <u>Office of Environment and Heritage</u>

Enclosure: Attachment 1



Attachment 1.

Organisation/ Name	Contact Person	Address	Phone number; email	Notes
Badu (Murrin Clan/Peoples)	Karia Lea Bond	11 Jeffery Place Moruya NSW 2537	Mobile Phone: 0476 381 207 Email: baduchts@gmail.com	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River
Bellambi Indigenous Corporation Gandangara Traditional Owners	Ms Kim Moran		Email: kimmoran@hotmail.com Mobile Phone: 0475 863 627	Requests that contact details are not forwarded to the Local Aboriginal Land Council.
Biamanga (Murrin Clan/Peoples)	Seli Storer		Email: biamangachts@gmail.com	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River
Bilinga (Murrin Clan/Peoples)	Simalene Carriage		Email: bilingachts@gmail.com	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River
Bilinga Cultural Heritage Technical Services (Mirramajah)	Robert Brown		Email: bilinga@mirramajah.com	This group is a member of the Mirramajah Group
Individual	Gary Caines	28 Gowan Brae Avenue Mt Ousley NSW 2519	Ph: 4227 2690 Email: grc04@live.com.au and garycaines87@qmail.com	
Coomaditchie United Aboriginal Corporation	Lorraine Brown	PO Box 160 Warrawong NSW 2502	Ph: 02 4274 7477	
Cullendulla (Murrin Clan/Peoples)	Corey Smith		Email: cullendullachts@gmail.com	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River
Darug Land Observations	Anna O'Hara	PO Box 2006 Bendelong NSW 2539	Email: daruglandobservations@gmail.com	
Dharug (Murrin Clan/Peoples)	Andrew Bond		Email: dharugchts@gmail.com	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River
Duncan Falk Consultancy	Duncan Falk	34 Robinia Drive Bowral NSW 2576	Email: DuncanFalk@hotmail.com Mobile Phone: 0406 610 644	
Individual	James Davis	2 Poplar Ave, Unanderra NSW 2526	Mobile Phone: 0423 715 395 Email: jvdcorp@hotmail.com	

Individual	Ken Foster	68 Australia St Matraville	Mobile Phone: 0411 818 091	
Gadhu Dreaming	Gordon Campbell		Email: gordy2540@hotmail.com	
Garrara Aboriginal Corporation	Raymond Ingrey		Email: raymond@bariyu.org.au	
Goobah Development PTY LTD (Murrin Clan/Peoples)	Basil Smith	66 Grantham Road Batehaven NSW 2536	Mobile Phone: 0405 995 725 Email: bunjilsmith@gmail.com	This group states that their boundaries (Murrin Peoples) extend from the Hawkesburv River to the Snowy River
Gundungurra Tribal Technical Services	David Bell	67 Dickens Road, Ambervale NSW 2560	Mobile Phone: 0450 124 891 Email: gundungurratectribsevices@gmail.com	
	Pimmy Johnson Bell	67 Dickens Road, Ambervale NSW 2560	Mobile Phone: 0425 066 100 Email: gundungurratectribsevices@gmail.com	
	Peter Foster	4 Tuppal Way Airds NSW 2560	Mobile Phone: 0432 590 289 Email: gundungurratectribsevices@gmail.com	
	Teangi Mereki Foster	1/6 Central Avenue Oak Flats NSW 2529	Mobile Phone: 0420 978 969 Email: gundungurratectribsevices@qmail.com	
	Larry Hoskins	2/3 Colville Place Rosemeadow NSW 2560	Mobile Phone: 0478 009 879 Email: gundungurratectribsevices@gmail.com	
	Christopher Payne	9/15-22 Burns Road Leumah NSW 2560	Mobile Phone: 0466 975 437 Email: gundungurratectribsevices@amail.com	
	Sam Wickman		Email: gundungurratectribsevices@gmail.com	
Gunyuu (Murrin Clan/Peoples)	Kylie Ann Bell		Email: gunyuuchts@gmail.com	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River
Gunyuu Cultural Heritage Technical Services (Mirramajah)	Darlene Hoskins- McKenzie		Email: gunyuu@mirramajah.com and management@mirramajah.com (management & administrative email address for the Mirramajah Group of RAPs).	This group is a member of the Mirramajah Group
Guunamaa Dreamin Sites and Surveying	Richard Campbell	2 Minda Crescent Oakflats NSW 2529	Mobile Phone: 0499 688 663 Email: richardcampbell123@outlook.com	
Illawarra Aboriginal Corporation	Rhonda Cruse	22 Kenny Street Wollongong, NSW 2500	Ph: 4228 1585	
			Page 3	
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Illawarra Local Aboriginal Land Council	Paul Knight	3 Ellen Street Wollongong, NSW 2500	Ph: 4226 3338 Email: ceo@ilalc.org.au	
Jerringong (Murrin Clan/Peoples)	Jodi Anne Stewart	2/10 Burnett Avenue Gerringong NSW 2534	Mobile Phone: 0422 800 184 Email: jerringong@gmail.com	This group states that their boundaries (Murrin Peoples) extend from the
Karrial (Murrin Clan/Peoples)	Karrial Johnson		Email: karrialchts@gmail.com	This group states that their boundaries (Nurrin Peoples) extend from the Hawkeebirry Pivor to the Sconvic
Korewal Elouera Jerrungurah Tribal Elders Council	Uncle Rueben Brown	86 Hertford Street Berkeley NSW 2506	Ph: (02) 4271 3069	MALE OF THE OFFICE AND
Kullila Site Consultants and Koori Site Management	Paul Charles	14 Werang Road Primbee, NSW 2502	Mobile Phone: 0423 795 389	
La Perouse Botany Bay Corporation	Yvonne Simms	10 Murrong Place La Perouse NSW 2036	Mobile Phone: 0466 094 491 Fax: 9311 3440	
Minnamunnung	Aaron Broad	1 Waratah Avenue Albion Park Rail NSW 2527	Email: minnamunnung@gmail.com	
Munyunga (Murrin Clan/Peoples)	Kaya Dawn Bell		Email: munyungachts@gmail.com	This group states that their boundaries (Murrin Peoples) extend from the Hawkeeving Disort of the Construction
Munyunga Cultural Heritage Technical Services (Mirramajah)	Suzannah McKenzie		Email: munyunga@mirramajah.com	This group is a member of the Mirramajah Group
Murramarang (Murrin Clan/Peoples)	Roxanne Smith		Email: murramarangchts@gmail.com	This group states that their boundaries (Murrin Peoples) extend from the Hawkoeshun bioor of the Conner Disco
Murrumbul (Murrin Clan/Peoples)	Mark Henry		Email: murrumbul@gmail.com	This group states that their boundaries (Murrin Peoples) extend from the
Murrumbul Cultural Heritage Technical Services (Mirramajah)	Levi McKenzie- Kirkbright		Email: murrumbul@mirramajah.com	This group is a member of the Mirramajah Group
NIAC		PO Box 595 Moss Vale NSW 2577	Ph: 4883 6639	
Nundagurri (Murrin Clan/Peoples)	Newton Carriage		Email: nundagurri@gmail.com	This group states that their boundaries (Murrin Peoples) extend from the
Pemulwuy (Murrin Clan/Peoples)	Pemulwuy Johnson		Email: pemulwuyd@gmail.com	This group states that their boundaries (Murrin Peoples) extend from the
Individual	Norma Simms	10 Murrong Place La Perouse NSW 2036	Mobile Phone: 0466 094 491	Hawkesoury Kivel to the Showy Kiver
South West Rocks Corporation	Edward Moran (Director)	4 Crystal Place South West Rocks NSW	Mobile Phone: 0499 281 456	

Page 3

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		2431		
Three Ducks Dreaming Surveying and Consulting	Leonard Wright	40 Tuggerah Circuit Flinders NSW 2529	Mobile Phone: 0422 382 950 Email: Ibjwright1977@hotmail.com	
Tungai Tonghi	Troy Tungai	10 Paterson Place Barrack Heights 2528	Email: troy.tungai72@hotmail.com Mobile Phone: 0423 350 430	
The Wadi Wadi Coomaditchie Aboriginal Corporation (correspondence via NIAC)		PO Box 595 Moss Vale NSW 2577	Ph: 02 4283 3009	
Walbunja (Murrin Clan/Peoples)	Hika Te Kowhai		Mobile Phone: 0475 352 499 Email: Walbunja@gmail.com	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River
Walgalu (Murrin Clan/Peoples)	Ronald Stewart		Email: walgaluchts@gmail.com	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River
Warra Bingi Nunda Gurri	Nathanial Kennedy		Mobile Phone: 0406 924 258 Email: warrabingi@gmail.com	
Wingikara Cultural Heritage Technical Services (Mirramajah)	Wandai Kirkbright		Email: wingikara@mirramajah.com	This group is a member of the Mirramajah Group
The Wodi Wodi Elders Corporation	Rosina Davis (also Muriel Davis, Joyce Donavon, Sandra Donavon)	7 O'Donnell Drive Figtree NSW 2525 (also 484 Northcliffe Drive, Berkeley, NSW 2506)	Ph: 4244 3340 (also 4271 8088)	
Woronora Plateau Gundungara Elders Council	Paul Cummins and Kayla Williamson	11 Garnet Grove Flinders NSW 2529	Mobile Phone: (PC) 0418 971 660, (KW) 0414 438 744 Email: kayla_87_@hotmail.com	
Wullung (Murrin Clan/Peoples)	Lee-Roy James Boota	54 Blackwood Street Gerringong NSW 2534	Mobile Phone: 0403 703 942 Email: wullunglb@gmail.com	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River
Yerramurra (Murrin Clan/Peoples)	Robert Parsons		Email: yerramurra@gmail.com	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River

Page 4



11-13 Mansfield Street Glebe NSW 2037 PO Box 112, Glebe NSW 2037 P. 02 9562 6327 F. 02 9562 6350

Taryn Gooley Biosis Pty Ltd Suite 8 27 Annie Stree WICKHAM NSW 2293

Dear Taryn

Re: Request - Search for Registered Aboriginal Owners

I refer to your letter dated 15 June 2017 regarding Aboriginal Cultural Heritage Assessment within the area of Yallah, NSW.

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

I suggest that you contact the Illawarra Local Aboriginal Land Council on (02) 4226 3338. They will be able to assist you in identifying other Aboriginal stakeholders for this project.

Yours sincerely

\$. Givon

Bianca Ceissman **Administration Support Officer** Office of the Registrar, *Aboriginal Land Rights Act 1983 (NSW)*

From:	Joel Thompson
To:	Taryn Gooley
Subject:	Aboriginal Cultural Heritage - Tallawarra - Notification List
Date:	Thursday, 29 June 2017 4:39:55 PM
Attachments:	image001.png
	image008.jpg
	image009.jpg
	image010.ipg

Dear Taryn,

I refer to your notification letter regarding proposed ACHAR works at Tallawarra. As Council's list of Aboriginal parties is less comprehensive and up to date than the OEH list, we would encourage you to refer to their list of contacts in relation to this project. Regards,



Joel Thompson Strategic Project Officer - Heritage Post Locked Bag 8821 Wollongong DC NSW 2500 Phone +61 2 4227 7524 Email jthompson@wollongong.nsw.gov.au • www.wollongong.nsw.gov.au [] [] [] []

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Wollongong City Council respects your privacy and our Privacy Management Plan is located at: <u>www.wollongong.nsw.gov.au</u>



Badu (Murrin Clan/Peoples) Karlia Lea Bond 11 Jeffery Place Moruya NSW 2537

Dear Karlia Lea, **RE: Proposed Development of Northern and Central Precincts at Tallawarra, Yallah NSW – Aboriginal cultural heritage assessment** Our Ref: Matter 24090

Cardno, on behalf of Bridgehill Group, intends to lodge a development application for the Northern Precinct and to modify the existing concept approval for the Northern and Central Precinct at Tallawarra, Yallah (MP 09_0131 MOD 1). The Northern Precinct covers an area of 45.06 hectares, while the Central Precincts comprises two areas of 73.2 hectares and 6.497 hectares respectively. Table 1 and Table 2 below, detail the Lot and DP's for each precinct.

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Daniel Thompson P.O. Box 1285 Wollongong NSW 2500 daniel.thompson@cardno.com.au

Biosis Pty Ltd Newcastle Resource Group

Suite 8, 27 Annie Street Wickham NSW 2293 Phone: 02 4911 4040

ACN 006 175 097 ABN 65 006 175 097

Email: <u>newcastle@biosis.com.au</u>



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

Taryn Gooley Biosis Pty Ltd Suite 8, 27 Annie Street Wickham NSW 2293 tgooley@biosis.com.au

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

Yours sincerely,

1-1-

Taryn Gooley Archaeologist 0407 980 961 (02) 4911 4041 tgooley@biosis.com.au

Table 1Central precinct Lot and DP's

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1	543285
7	1049520
8	1049520

Table 2

Lot	DP
30	1175058
31	1175058



Bellambi Indigenous Corporation Gandangarra Traditional Owners Kim Moran

Dear Kim,

RE: Proposed Development of Northern and Central Precincts at Tallawarra, Yallah NSW – Aboriginal cultural heritage assessment

Our Ref: Matter 24090

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Lot	DP
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Biamanga (Murrin Clan/Peoples) Seli Storer

Dear Seli,

RE: Proposed Development of Northern and Central Precincts at Tallawarra, Yallah NSW – Aboriginal cultural heritage assessment

Our Ref: Matter 24090

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Newcastle Resource Group

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Bilinga (Murrin Clan/Peoples) Simalene Carriage

Dear Simalene, **RE: Proposed Development of Northern and Central Precincts at Tallawarra, Yallah NSW – Aboriginal cultural heritage assessment** Our Ref: Matter 24090

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Bilinga Cultural Heritage Technical Services (Mirramajah) Robert Brown

Dear Robert,

RE: Proposed Development of Northern and Central Precincts at Tallawarra, Yallah NSW – Aboriginal cultural heritage assessment

Our Ref: Matter 24090

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Coomaditchie United Aboriginal Corporation Lorraine Brown PO Box 160 Warrawong NSW 2502

Dear Lorraine,

RE: Proposed Development of Northern and Central Precincts at Tallawarra, Yallah NSW – Aboriginal cultural heritage assessment Our Ref: Matter 24090

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Cullendulla (Murrin Clan/Peoples) Corey Smith

Dear Corey,

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Darug Land Observations Anna O'Hara

Dear Anna, **RE: Proposed Development of Northern and Central Precincts at Tallawarra, Yallah NSW – Aboriginal cultural heritage assessment** Our Ref: Matter 24090

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Table 2

Lot	DP
30	1175058
31	1175058



Dharug (Murrin Clan/Peoples) Andrew Bond

Dear Andrew, RE: Proposed Development of Northern and Central Precincts at Tallawarra, Yallah NSW – Aboriginal cultural heritage assessment

Our Ref: Matter 24090

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Duncan Falk Consultancy Duncan Falk

Dear Duncan, **RE: Proposed Development of Northern and Central Precincts at Tallawarra, Yallah NSW – Aboriginal cultural heritage assessment** Our Ref: Matter 24090

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Gadhu Dreaming Gordon Campbell

Dear Gordon,

RE: Proposed Development of Northern and Central Precincts at Tallawarra, Yallah NSW – Aboriginal cultural heritage assessment

Our Ref: Matter 24090

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Garrara Aboriginal Corporation **Raymond Ingrey**

Dear Raymond, **RE: Proposed Development of Northern and Central Precincts at Tallawarra, Yallah** NSW – Aboriginal cultural heritage assessment

Our Ref: Matter 24090

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Goobah Development Pty Ltd (Murrin Clan/Peoples) Basil Smith 66 Grantham Road Batehaven NSW 2536

Dear Basil,

RE: Proposed Development of Northern and Central Precincts at Tallawarra, Yallah NSW – Aboriginal cultural heritage assessment Our Ref: Matter 24090

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ACN 006 175 097 ABN 65 006 175 097

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Gundungurra Tribal Technical Services David Bell 67 Dickens Road Ambervale NSW 2560

Dear David,

RE: Proposed Development of Northern and Central Precincts at Tallawarra, Yallah NSW – Aboriginal cultural heritage assessment Our Ref: Matter 24090

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Gunyuu (Murrin Clan/Peoples) Kylie Ann Bell

Dear Kylie Ann, RE: Proposed Development of Northern and Central Precincts at Tallawarra, Yallah NSW – Aboriginal cultural heritage assessment

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Gunyuu Cultural Heritage Technical Services (Mirramajah) Darlene Hoskins-McKenzie

Dear Darlene,

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Guunamaa Dreaming Sites and Surveying Richard Campbell 2 Minda Crescent Oakflats NSW 2529

Dear Richard,

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Illawarra Aboriginal Corporation Rhonda Cruse 22 Kenny Street Wollongong NSW 2500

Dear Rhonda,

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Illawarra Local Aboriginal Land Council Paul Knight 3 Ellen Street Wollongong NSW 2500

Dear Paul,

RE: Proposed Development of Northern and Central Precincts at Tallawarra, Yallah NSW – Aboriginal cultural heritage assessment Our Ref: Matter 24090

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31	1175058



Jerringong (Murrin Clan/Peoples) Jodi Anne Stewart 2/10 Burnett Ave Gerringong NSW 2534

Dear Jodi Anne, **RE: Proposed Development of Northern and Central Precincts at Tallawarra, Yallah NSW – Aboriginal cultural heritage assessment** Our Ref: Matter 24090

Cardno, on behalf of Bridgehill Group, intends to lodge a development application for the Northern Precinct and to modify the existing concept approval for the Northern and Central Precinct at Tallawarra, Yallah (MP 09_0131 MOD 1). The Northern Precinct covers an area of 45.06 hectares, while the Central Precincts comprises two areas of 73.2 hectares and 6.497 hectares respectively. Table 1 and Table 2 below, detail the Lot and DP's for each precinct.

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Taryn Gooley Biosis Pty Ltd Suite 8, 27 Annie Street Wickham NSW 2293 tgooley@biosis.com.au

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Yours sincerely,

1-1-

Taryn Gooley Archaeologist 0407 980 961 (02) 4911 4041 tgooley@biosis.com.au

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Table 2

Lot	DP
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Karrial (Murrin Clan/Peoples) Karrial Johnson

Dear Karrial, **RE: Proposed Development of Northern and Central Precincts at Tallawarra, Yallah NSW – Aboriginal cultural heritage assessment** Our Ref: Matter 24090

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Korewal Elouera Jerrungurah Tribal Elders Council Uncle Rueben Brown 86 Hertford Street Berkeley NSW 2506

Dear Uncle Rueben, **RE: Proposed Development of Northern and Central Precincts at Tallawarra, Yallah NSW – Aboriginal cultural heritage assessment** Our Ref: Matter 24090

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Kulila Site Consultants & Koori Site Management Paul Charles 14 Werang Road Brimbee NSW 2502

Dear Paul,

RE: Proposed Development of Northern and Central Precincts at Tallawarra, Yallah NSW – Aboriginal cultural heritage assessment Our Ref: Matter 24090

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La Perouse Botany Bay Corporation Yvonne Simms 10 Murrong Place La Perouse NSW 2036

Dear Yvonne,

RE: Proposed Development of Northern and Central Precincts at Tallawarra, Yallah NSW – Aboriginal cultural heritage assessment Our Ref: Matter 24090

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Minnamunnung Aaron Broad 1 Waratah Avenue Albion Park Rail NSW 2527

Dear Aaron, RE: Proposed Development of Northern and Central Precincts at Tallawarra, Yallah NSW – Aboriginal cultural heritage assessment Our Ref: Matter 24090

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Munyunga (Murrin Clan/Peoples) Kaya Dawn Bell

Dear Kaya Dawn, RE: Proposed Development of Northern and Central Precincts at Tallawarra, Yallah NSW – Aboriginal cultural heritage assessment

Our Ref: Matter 24090

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Munyunga Cultural Heritage Technical Services (Mirramajah) Suzannah McKenzie

Dear Suzannah,

RE: Proposed Development of Northern and Central Precincts at Tallawarra, Yallah NSW – Aboriginal cultural heritage assessment

Our Ref: Matter 24090

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Murramarang (Murrin Clan/Peoples) Roxanne Smith

Dear Roxanne, RE: Proposed Development of Northern and Central Precincts at Tallawarra, Yallah NSW – Aboriginal cultural heritage assessment

Our Ref: Matter 24090

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Murrumbul (Murrin Clan/Peoples) Mark Henry

Dear Mark, RE: Proposed Development of Northern and Central Precincts at Tallawarra, Yallah NSW – Aboriginal cultural heritage assessment

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Murrumbul Cultural Heritage Technical Services (Mirramajah) Levi McKenzie-Kirkbright

Dear Levi,

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NIAC

PO Box 595 Moss Vale NSW 2577

Dear Sir or Madam, RE: Proposed Development of Northern and Central Precincts at Tallawarra, Yallah NSW – Aboriginal cultural heritage assessment Our Ref: Matter 24090

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Table 2

Lot	DP
30	1175058
31	1175058



Nundagurri (Murrin Clan/Peoples) Newton Carriage

Dear Newton, RE: Proposed Development of Northern and Central Precincts at Tallawarra, Yallah NSW – Aboriginal cultural heritage assessment

Our Ref: Matter 24090

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Pemulwuy (Murrin Clan/Peoples) Pemulwuy Johnson

Dear Pemulwuy, RE: Proposed Development of Northern and Central Precincts at Tallawarra, Yallah NSW – Aboriginal cultural heritage assessment

Our Ref: Matter 24090

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South West Rocks Corporation Edward Moran 4 Crystal Place South West Rocks NSW 2431

Dear Edward, RE: Proposed Development of Northern and Central Precincts at Tallawarra, Yallah NSW – Aboriginal cultural heritage assessment Our Ref: Matter 24090

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The Wodi Wodi Elders Corporation Rosina Davis 7 O'Donnell Drive Figtree NSW 2525

Dear Rosina,

RE: Proposed Development of Northern and Central Precincts at Tallawarra, Yallah NSW – Aboriginal cultural heritage assessment Our Ref: Matter 24090

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Three Ducks Dreaming Surveying and Consulting Leonard Wright 40 Tuggerah Circuit Flinders NSW 2529

Dear Leonard,

RE: Proposed Development of Northern and Central Precincts at Tallawarra, Yallah NSW – Aboriginal cultural heritage assessment Our Ref: Matter 24090

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Walbunja (Murrin Clan/Peoples) Hika Te Kowhai 15 Renee Crescent Moruya Heads NSW 2537

Dear Hika Te, **RE: Proposed Development of Northern and Central Precincts at Tallawarra, Yallah NSW – Aboriginal cultural heritage assessment** Our Ref: Matter 24090

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Walgalu (Murrin Clan/Peoples) Ronald Stewart

Dear Ronald, RE: Proposed Development of Northern and Central Precincts at Tallawarra, Yallah NSW – Aboriginal cultural heritage assessment

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Warra Bingi Nunda Gurri Nathanial Kennedy

Dear Nathanial, **RE: Proposed Development of Northern and Central Precincts at Tallawarra, Yallah NSW – Aboriginal cultural heritage assessment** Our Ref: Matter 24090

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Wingikara Cultural Heritage Technical Services (Mirramajah) Wandai Kirkbright

Dear Wandai,

RE: Proposed Development of Northern and Central Precincts at Tallawarra, Yallah NSW – Aboriginal cultural heritage assessment

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Gary Caines 28 Gowan Brae Avenue Mt Ousley NSW 2519

Dear Gary,

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James Davis 2 Poplar Avenue Unanderra NSW 2526

Dear James,

RE: Proposed Development of Northern and Central Precincts at Tallawarra, Yallah NSW – Aboriginal cultural heritage assessment Our Ref: Matter 24090

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

Daniel Thompson P.O. Box 1285 Wollongong NSW 2500 daniel.thompson@cardno.com.au

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Biosis Pty Ltd Newcastle Resource Group

Suite 8, 27 Annie Street Wickham NSW 2293 Phone: 02 4911 4040



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

Yours sincerely,

a form

Taryn Gooley Archaeologist 0407 980 961 (02) 4911 4041 tgooley@biosis.com.au

Table 1Central precinct Lot and DP's

Lot	DP
1	551658
102	716727
15	1050255
1	1146409
1	543285
7	1049520
8	1049520

Table	2
-------	---

Lot	DP
30	1175058
31	1175058



Ken Foster 68 Australia Street Matraville NSW 2036

Dear Ken ,

RE: Proposed Development of Northern and Central Precincts at Tallawarra, Yallah NSW – Aboriginal cultural heritage assessment Our Ref: Matter 24090

Cardno, on behalf of Bridgehill Group, intends to lodge a development application for the Northern Precinct and to modify the existing concept approval for the Northern and Central Precinct at Tallawarra, Yallah (MP 09_0131 MOD 1). The Northern Precinct covers an area of 45.06 hectares, while the Central Precincts comprises two areas of 73.2 hectares and 6.497 hectares respectively. Table 1 and Table 2 below, detail the Lot and DP's for each precinct.

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Lot	DP
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31	1175058



Norma Simms 10 Murrong Place La Perouse NSW 2036

Dear Norma, **RE: Proposed Development of Northern and Central Precincts at Tallawarra, Yallah NSW – Aboriginal cultural heritage assessment** Our Ref: Matter 24090

Cardno, on behalf of Bridgehill Group, intends to lodge a development application for the Northern Precinct and to modify the existing concept approval for the Northern and Central Precinct at Tallawarra, Yallah (MP 09_0131 MOD 1). The Northern Precinct covers an area of 45.06 hectares, while the Central Precincts comprises two areas of 73.2 hectares and 6.497 hectares respectively. Table 1 and Table 2 below, detail the Lot and DP's for each precinct.

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Table	2
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Lot	DP
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31	1175058



Woronora Plateau Gundungara Elders Council Kayla Williamson 11 Garnet Grove Flinders NSW 2529

Dear Kayla,

RE: Proposed Development of Northern and Central Precincts at Tallawarra, Yallah NSW – Aboriginal cultural heritage assessment Our Ref: Matter 24090

Cardno, on behalf of Bridgehill Group, intends to lodge a development application for the Northern Precinct and to modify the existing concept approval for the Northern and Central Precinct at Tallawarra, Yallah (MP 09_0131 MOD 1). The Northern Precinct covers an area of 45.06 hectares, while the Central Precincts comprises two areas of 73.2 hectares and 6.497 hectares respectively. Table 1 and Table 2 below, detail the Lot and DP's for each precinct.

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Taryn Gooley Biosis Pty Ltd Suite 8, 27 Annie Street Wickham NSW 2293 tgooley@biosis.com.au

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Yours sincerely,

1-1-

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Table 2

Lot	DP
30	1175058
31	1175058



Wullung (Murrin Clan/Peoples) Lee-Roy James 54 Blackwood Street Gerringong NSW 2534

Dear Lee-Roy, **RE: Proposed Development of Northern and Central Precincts at Tallawarra, Yallah NSW – Aboriginal cultural heritage assessment** Our Ref: Matter 24090

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Suite 8, 27 Annie Street Wickham NSW 2293 Phone: 02 4911 4040

ACN 006 175 097 ABN 65 006 175 097

Email: <u>newcastle@biosis.com.au</u>



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Yerramurra (Murrin Clan/Peoples) Robert Parsons

Dear Robert, RE: Proposed Development of Northern and Central Precincts at Tallawarra, Yallah NSW – Aboriginal cultural heritage assessment

Our Ref: Matter 24090

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Wadi Wadi Keith Ball 43 Coruma Cresent Flinders NSW 2529

Dear Keith, **RE: Proposed Development of Northern and Central Precincts at Tallawarra, Yallah NSW – Aboriginal cultural heritage assessment** Our Ref: Matter 24090

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Suite 8, 27 Annie Street Wickham NSW 2293 Phone: 02 4911 4040

ACN 006 175 097 ABN 65 006 175 097

Email: <u>newcastle@biosis.com.au</u>



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Taryn Gooley Biosis Pty Ltd Suite 8, 27 Annie Street Wickham NSW 2293 tgooley@biosis.com.au

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Tungai Tonghi Troy Tungai

Dear Troy, **RE: Proposed Development of Northern and Central Precincts at Tallawarra, Yallah NSW – Aboriginal cultural heritage assessment** Our Ref: Matter 24090

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Hi Taryn

Woronora Plateau Gundangara Elders Council would like to register for the Northern Precent at Tallawarra, Yallah, NSW (MP 09_0131 MOD 1)

Please send all correspondence to:

11 Garnett Grove FLINDERS NSW 2529

Or email

Kayla_87_@hotmail.com

Kind Regards

Kayla Williamson 0414438744

Sent from my iPhone

From:	nathanial Kennedy
To:	Taryn Gooley
Subject:	Expression of Interest for the Northern Precinct at Tallawarra, Yallah NSW, Aboriginal Cultural Heritage Assesment
Date:	Wednesday, 21 June 2017 5:09:57 PM

Hi Taryn,

I would like to register Warra Bingi Nunda Gurri's interest for the ACHA for the Northern Precinct at Tallawarra.

Tallawrra is located within the Yuin nation and i have grown up and still live in Dapto which is just north of Tallawarra.

Please keep me in the loop with any consultation for the project.

Regards,

Nathanial Kennedy

Senior Aboriginal Sites Officer

M: 0406924258 E: warrabingi@gmail.com



Warra Bingi Nunda Gurri Indigenous Sites Conservation 45 Rosemont St, West Wollongong NSW 2500

From:	Richard Campbell
To:	Mathew Smith
Subject:	RE: 24090-Tallawarra, Yallah ACHA
Date:	Tuesday, 27 June 2017 12:07:16 PM
Attachments:	image1fd2ac.PNG

Hi matt, I would like to put my expression of interest in for Tallawarra I have worked with this site before yes again glad to work along side you guys on this site Thanks Richard

Sent from my Windows 10 phone

From: Mathew Smith Sent: Tuesday, 27 June 2017 10:20 AM To: <u>'richardcampbell123@outlook.com'</u>

Subject: 24090-Tallawarra, Yallah ACHA

Hi Richard,

Biosis is currently undertaking an Aboriginal Cultural Heritage Assessment at Tallawarra, Yallah and 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 area.

If you would like to register your interest please provide your details by **5pm on 11 July 2017**. Thanks,

Mathew

Mathew Smith

Field Archaeologist

M: 0409 991 176 D: (02) 4201 1090

E: msmith@biosis.com.au

Biosis Logo

Leaders in Ecology and Heritage Consulting

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Hi Mathew

I would like to thank you for the email an would like to make our expressions of interest for the works at yallah an be more then welcome to be apart of the works oit their...

Kind regards Leonard Wright and Troy Tungai

Sent from my Samsung Galaxy smartphone.

------ Original message ------From: Mathew Smith Date: 27/6/17 10:45 am (GMT+10:00) To: "'lbjwright1977@hotmail.com'" Subject: 24090-Tallawarra, Yallah ACHA

Hi Leonard,

Biosis is currently undertaking an Aboriginal Cultural Heritage Assessment at Tallawarra, Yallah and 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 area.

If you would like to register your interest please provide your details by 5pm on 11 July 2017.

Thanks,

Mathew

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

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From:James DavisTo:Mathew SmithSubject:Re: 24090-Tallawarra, Yallah ACHADate:Friday, 30 June 2017 3:41:46 PMAttachments:imagedf0f47.PNG

Hi mathew could you please register my interest for the aboriginal cultural heritage assessment at Tallawarra,Yallah James Davis Wodi Wodi Traditional Owner I

From: Mathew Smith Sent: Tuesday, 27 June 2017 10:13 AM To: 'jvdcorp@hotmail.com' Subject: 24090-Tallawarra, Yallah ACHA Hi James,

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Mathew Smith Field Archaeologist

M: 0409 991 176 D: (02) 4201 1090 E: <u>msmith@biosis.com.au</u> Biosis Logo

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EMAIL: DARUGLANDOBSERVATIONS@GMAIL.COM PO BOX 2006 BENDALONG NSW 2539 MOBILE: 0413 687 279

30th June 2017

Your ref: Matter 24090

Taryn Gooley Biosis Pty Ltd Suite 8, 27 Annie Street WICKHAM NSW 2293

Notification and Registration of ALL Aboriginal Interests

RE: Proposed Development of Northern and Central Precincts at Tallawarra, Yallah, NSW

Aboriginal Archaeological & Cultural Heritage Assessment

Dear Taryn,

Please be advised that Darug Land Observations Pty Ltd is seeking to be involved in any and all consultation meetings and fieldwork.

This office specialises in Aboriginal and community consultations, and has a membership that comprises of Traditional owners from the area in question. Those retain strong story, song lines, oral history and continued contact.

We would also like to state that we do not accept or support any person or organisation that are NOT from the DARUG Nation that comments regarding the said area.

Please also be advised that this Aboriginal organisation does not do volunteer work or attend unpaid meetings. I hope that you advise your client of this so that, 'This Group', will not be discriminated against and refused paid fieldwork. DLO's rate is \$440 half day (less than 4 hours) and \$880 per day (flat rate), including GST.

All correspondence should be emailed to: <u>daruglandobservations@gmail.com</u> and any further consultation during this project can be directed to Anna O'Hara on 0413 687 279.

Yours sincerely,

Gavil Workeran

Jamie Workman Darug Land Observations Pty Ltd

lihte

Uncle Gordon Workman Darug Elder
Hello Mathew,

Duncan Falk Consultancy does hold relevant cultural knowledge and would like to register interest for the Aboriginal Cultural Heritage Assessment at Tallawarra, Yallah.

Duncan Falk Manager Duncan Falk Consultancy T +61 406 610 644 duncanfalk@hotmail.com

From: Mathew Smith Sent: Tuesday, 27 June 2017 10:42:41 AM To: 'DuncanFalk@hotmail.com' Subject: 24090-Tallawarra, Yallah ACHA Hi Duncan,

Biosis is currently undertaking an Aboriginal Cultural Heritage Assessment at Tallawarra, Yallah and 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 area.

If you would like to register your interest please provide your details by 5pm on 11 July 2017.

Thanks,

Mathew

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

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.

I am interested. In the tallawarra yallah ACHA PROJECT

On 27 Jun 2017 10:23 AM, "Mathew Smith" <<u>MSmith@biosis.com.au</u>> wrote:

Hi Aaron,

Biosis is currently undertaking an Aboriginal Cultural Heritage Assessment at Tallawarra, Yallah and 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 area.

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Thanks,

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

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Hi Taryn,

This is Goobahs expression of interest to register for the above project. We wish to be kept informed of any further developments and all correspondence should be sent to this email address.

Regards Basil Smith Chief Executive Officer Goobah PH 0405995725

This email may contain privileged information. Privilege is not waived if it has been sent to you in error, or if you are not the intended recipient. Please immediately notify me and delete the email if you have received this in error.

Hi Taryn

This is Biamangas expression of interest to register for the above project and we wish to be kept informed of any further developments thankyou

On Tuesday, 27 June 2017, Mathew Smith <<u>MSmith@biosis.com.au</u>> wrote:

Hi Seli,

Biosis is currently undertaking an Aboriginal Cultural Heritage Assessment at Tallawarra, Yallah and 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 area.

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

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Kind Regards Seli Storer Chief Executive Officer Biamanga

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Hi Taryn,

This is Cullendullas expression of interest to register for the above project and we wish to be kept informed of any further developments thankyou

On Tuesday, 27 June 2017, Mathew Smith <<u>MSmith@biosis.com.au</u>> wrote:

Hi Corey,

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Mathew

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Kind Regards Corey Smith Cultural Heritage Officer Cullendulla

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Hi Taryn

This is Murramarangs expression of interest to register for the above project and we wish to be kept informed of any further developments thankyou

On Tuesday, 27 June 2017, Mathew Smith <<u>MSmith@biosis.com.au</u>> wrote:

Hi Roxanne,

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Kind Regards Roxanne Smith Cultural Heritage Officer Murramarang

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delete the email if you have received this in error.



Appendix 3 Stage 2: Presentation of information about the proposed project and Stage 3: Gathering information about cultural significance



22 September 2017

Ms Seli Storer Biamanga (Murrin Clan/Peoples) biamangachts@gmail.com

Dear Seli

Re: Project Information and Assessment Methodology, Aboriginal Cultural Heritage Assessment: Northern and Central Precincts at Tallawarra, Yallah NSW Our Ref: Matter 24090

The following project information and assessment methodology has been provided in accordance with the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010). The aim of this document is to provide registered Aboriginal parties (RAPs) with information about proposed project, and the proposed Aboriginal cultural heritage assessment process.

It would be appreciated if you would provide feedback on the methodology presented in this letter to Biosis by **5 pm Friday 20 October 2017** either by email, phone or return mail.

Please address feedback on the methodology to:

Taryn Gooley Consultant Archaeologist 8 Tate Street Wollongong, NSW 2500 (02) 4201 1090 tgooley@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.

Yours sincerely,

Taryn Gooley Consultant Archaeologist

Biosis Pty Ltd Newcastle Resource Group



Stage 2 – Project information

Proposed development

Concept approval for the Tallawarra Lands Mixed Use Development was granted on 23 May 2013 (MP09_0131). The concept plan consists of residential (approximately 1,010 lots, together with 200 retirement dwellings), commercial, industrial (approximately 40ha) and retail development (approximately 16ha), public open space areas, new recreational facilities, internal road network, environmental management, conservation areas and riparian corridors.

Bridgehill Group have acquired some of the Tallawarra Lands in the Northern and Central Precincts from Energy Australia, and intend to develop new residential communities and a light industrial development and tourism facilities on those lands.

Bridgehill Group, intends to lodge a development application for the Northern Precinct under Part 4 of the *Environmental Planning and Assessment Act 1979*; and to modify the existing concept approval for the Northern and Central Precinct at Tallawarra, Yallah (MP 09_0131 MOD 1) under Part 3A section 75W of the *Environmental Planning and Assessment Act 1979*.

The proposed modification seeks to:

- Increase the footprint for residential development in the Central and Northern precincts; and
- Modify the overall approved residential yield from 1010 to 1480 lots.

The proposed modifications will result in reduced environmental lands between the Central and Northern precincts. Details on the proposed modification are outlined in Table 1 below.

Table 1 Proposed modification details - residential lots

Area	Approved Concept Yeild	Proposed modification
Central Precinct	350 Lots	588 Lots
Northern Precinct	310 Lots	542 Lots

Study area

The study area is located in the suburb of Yallah within the Wollongong Local Government Area and is located approximately 13 km south of Wollongong town centre. The Northern Precinct covers an area of 45.06 hectares (Figure 1), while the Central Precincts comprises two areas of 73.2 hectares and 6.497 hectares respectively (Figure 2). Table 2 and Table 3 below, detail the Lot and DP's for each precinct.



Table 2	Central precinct Lot and DP's	
Lot	DP	
1	551658	
102	716727	
15	1050255	
1	1146409	
1	543285	
7	1049520	
8	1049520	

Table 2 Central precinct Lot and DP's

Table 3 Northern precinct Lot and DP's

Lot	DP
30	1175058
31	1175058

Previous Archaeological Assessment

Biosis prepared an Aboriginal Archaeological Assessment report for the Tallawarra Lands Part 3A Concept Plan Application in 2010. Aboriginal Community consultation was undertaken for this assessment in accordance with the Draft Guidelines for Aboriginal Cultural Heritage Impact Assessment and Community Consultation (DECC NSW 2005) for projects being assessed under Part 3A of the EP&A Act. Nine Aboriginal stakeholders registered an interest in the project, each group was invited to participate in the sub-surface archaeological investigations, consultation meetings and development of management and mitigation measures for this project.

The assessment involved subsurface investigations of a number of Potential Archaeological Deposit (PAD) locations and sensitive landforms within the Tallawarra Lands. A 'gap analysis' was undertaken to ensure that all information relevant to Tallawarra Lands was captured. This included searches of relevant heritage registers and databases, along with a review of the environmental context, regional archaeological patterning based on previous studies, and predictive modelling to confirm placement of proposed test pits to be excavated during the sub-surface investigations.

The predictive modelling suggested that there is high potential for additional shell middens, stone artefact scatters and or isolated finds to be identified within the Tallawarra Lands. Where previous land use has resulted in high levels of disturbance, archaeological sites will have low integrity. The archaeological sub-surface investigations undertaken resulted in the in the identification of eight new Aboriginal archaeological



sites across the Tallawarra Lands including four isolated artefacts and four campsites. Areas of high, moderate, low, and no areas of archaeological potential have been defined across the Tallawarra Lands.

The majority of the Northern Precinct was assessed as having moderate archaeological potential with small areas of low archaeological potential also being identified. The Central Precinct was identified as having areas of high, moderate and low archaeological potential.

The Biosis (2010) assessment recommended further archaeological assessment such as test excavations and recording be undertaken in areas of moderate and high archaeological potential if impacts on those areas cannot be avoided. Areas of low or no archaeological potential and areas of high disturbance do not require any further archaeological investigations.

Stage 3 - Aboriginal cultural heritage assessment methodology

The assessment process includes the following tasks:

Background Research

This task identifies known Aboriginal sites, areas of potential archaeological sensitivity and previous disturbance, and informs the predictive modelling for the assessment/study area. Biosis has undertaken the following tasks as part of the background research for this assessment:

- A search of the Aboriginal Heritage Information Management System (AHIMS) was completed to identify registered sites in the vicinity of the assessment/study area. The results of the AHIMS search has been used to obtain relevant site cards and relevant previously completed Aboriginal cultural heritage assessments.
- Review of relevant reports identified through the AHIMS search.
- Review of aerial photographs and other resources to gauge the existing landscape and previous history of land disturbance.
- Review of the historical heritage databases.
- A brief summary of the historical uses of the study areas.

The background research has identified that the proposed works has the potential to impact on the following AHIMS sites (Figure 3 and Figure 4):

- Northern Precinct
 - Boomberry Point 1 (AHIMS 52-5-0223)
 - Gilba Road 1 (AHIMS 52-5-0642)
 - Elizabeth Point (AHIMS 52-5-0225)
 - Gilba Road 2 Fill 1 (AHIMS 52-5-0643)
- Central Precinct
 - Tallawarra Pipeline PAD 3 (AHIMS 52-5-0523)
 - TLPD AFT 7 (AHIMS 52-5-0613)
 - TLPD AFT 8 (AHIMS 52-5-0614)



- TLPD AFT 9 (AHIMS 52-5-0615)

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 inputting into management options.

Aboriginal community consultation will be undertaken in accordance with *the Aboriginal cultural heritage consultation requirements for proponents 2010*, which includes:

- COMPLETED. Biosis ascertained 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.
- **COMPLETED.** Aboriginal stakeholders were provided with notification by letter of the proposed project on 26 June 2017 via Biosis on behalf of Cardno and given the opportunity to be involved in consultation.
- This document outlines the details of the proposed project and proposed archaeological testing methodology. The registered Aboriginal parties must be given an opportunity to review and provide feedback to the proponent within a minimum of **28 days** of Biosis providing the methodology document.
- The DRAFT Aboriginal Cultural Heritage Assessment Report (ACHAR) and Archaeological Report (AR) 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.
- Representatives of the registered Aboriginal parties will be invited to participate in any archaeological excavations which will take place within the study areas

Field Survey

A number of archaeological surveys have been undertaken within the study area over the last 10 years. An inspection of the assessment area has been undertaken as part of the current assessment in order to identify any previously unknown Aboriginal objects or places, should they be present, and to record the current condition of AHIMS sites.

Any known sites identified by the AHIMS search which are within the assessment area were inspected to determine their current condition. Registered sites in the near vicinity were visited to ensure they will not be impacted by the proposed works. Areas of potential archaeological deposit (PAD) identified by previous assessments were also be inspected.

Mapping was undertaken in ArcGIS and MapInfo Professional.

Archaeological testing

The archaeological survey and desktop assessment have identified that the proposed works have the potential to impact on eight AHIMS sites (Figure 3 and Figure 4) and areas identified as having moderate and high archaeological potential (Figure 5 and Figure 6). Biosis is therefore recommending Aboriginal archaeological test excavations be undertaken accordance with the *Code of Practice for archaeological*



investigation for Aboriginal objects in NSW (DECCW 2010) in areas of moderate and high archaeological potential should the proposed modifications to the concept approval be granted.

Aboriginal cultural heritage assessment report and archaeological report

Biosis Pty Ltd will prepare an Archaeological cultural heritage assessment report (ACHAR) and archaeological report (AR) for the proposed project. The ACHAR will document the findings of the assessment, and detail the consultation process. The AR will be included as an appendix to the ACHAR and will document the desktop assessment, archaeological survey, and test excavation results.

The main aim of the report is to document the assessment of potential development related impacts to Aboriginal cultural heritage and to formulate strategies to manage these impacts. Reporting will follow the guidelines of the OEH, in particular the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010a), the Code of Practice and the *Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW* (OEH 2011).

The report will contain:

- Details of the Aboriginal consultation process undertaken as part of the assessment
- A review and summary of the environmental context of the study area
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- Aboriginal site significance assessment
- Impact assessment
- Management strategies
- Maps detailing any Aboriginal sites identified during the assessment process.
- The RAPs will be provided with the draft archaeological and cultural heritage report and their comments on report content sought.
- Comments on the report's content are to be provided to Biosis by the party's respective nominated spokesperson(s). All comments not provided in writing will be recorded in an informal logbook by Biosis.
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As part of this methodology 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.



References

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

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High
Moderate
Low



22 September 2017

Mr Corey Smith Cullendulla (Murrin Clan/Peoples) cullendullachts@gmail.com

Dear Corey

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High
Moderate
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22 September 2017

Ms Anna O'Hara PO BOX 2006 Bendalong, NSW 2539 Darug Land Observations daruglandobservations@gmail.com Ph: 0413 687 279

Dear Anna

Re: Project Information and Assessment Methodology, Aboriginal Cultural Heritage Assessment: Northern and Central Precincts at Tallawarra, Yallah NSW Our Ref: Matter 24090

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Taryn Gooley Consultant Archaeologist 8 Tate Street Wollongong, NSW 2500 (02) 4201 1090 <u>tgooley@biosis.com.au</u>

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

Yours sincerely,

Taryn Gooley Consultant Archaeologist

Biosis Pty Ltd
Newcastle Resource Group



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The proposed modification seeks to:

- Increase the footprint for residential development in the Central and Northern precincts; and
- Modify the overall approved residential yield from 1010 to 1480 lots.

The proposed modifications will result in reduced environmental lands between the Central and Northern precincts. Details on the proposed modification are outlined in Table 1 below.

Table 1 Proposed modification details - residential lots

Area	Approved Concept Yeild	Proposed modification
Central Precinct	350 Lots	588 Lots
Northern Precinct	310 Lots	542 Lots

Study area

The study area is located in the suburb of Yallah within the Wollongong Local Government Area and is located approximately 13 km south of Wollongong town centre. The Northern Precinct covers an area of 45.06 hectares (Figure 1), while the Central Precincts comprises two areas of 73.2 hectares and 6.497 hectares respectively (Figure 2). Table 2 and Table 3 below, detail the Lot and DP's for each precinct.



Table 2	Central precinct Lot and DP's	
Lot	DP	
1	551658	
102	716727	
15	1050255	
1	1146409	
1	543285	
7	1049520	
8	1049520	

Table 2 Central precinct Lot and DP's

Table 3 Northern precinct Lot and DP's

Lot	DP
30	1175058
31	1175058

Previous Archaeological Assessment

Biosis prepared an Aboriginal Archaeological Assessment report for the Tallawarra Lands Part 3A Concept Plan Application in 2010. Aboriginal Community consultation was undertaken for this assessment in accordance with the Draft Guidelines for Aboriginal Cultural Heritage Impact Assessment and Community Consultation (DECC NSW 2005) for projects being assessed under Part 3A of the EP&A Act. Nine Aboriginal stakeholders registered an interest in the project, each group was invited to participate in the sub-surface archaeological investigations, consultation meetings and development of management and mitigation measures for this project.

The assessment involved subsurface investigations of a number of Potential Archaeological Deposit (PAD) locations and sensitive landforms within the Tallawarra Lands. A 'gap analysis' was undertaken to ensure that all information relevant to Tallawarra Lands was captured. This included searches of relevant heritage registers and databases, along with a review of the environmental context, regional archaeological patterning based on previous studies, and predictive modelling to confirm placement of proposed test pits to be excavated during the sub-surface investigations.

The predictive modelling suggested that there is high potential for additional shell middens, stone artefact scatters and or isolated finds to be identified within the Tallawarra Lands. Where previous land use has resulted in high levels of disturbance, archaeological sites will have low integrity. The archaeological sub-surface investigations undertaken resulted in the in the identification of eight new Aboriginal archaeological



sites across the Tallawarra Lands including four isolated artefacts and four campsites. Areas of high, moderate, low, and no areas of archaeological potential have been defined across the Tallawarra Lands.

The majority of the Northern Precinct was assessed as having moderate archaeological potential with small areas of low archaeological potential also being identified. The Central Precinct was identified as having areas of high, moderate and low archaeological potential.

The Biosis (2010) assessment recommended further archaeological assessment such as test excavations and recording be undertaken in areas of moderate and high archaeological potential if impacts on those areas cannot be avoided. Areas of low or no archaeological potential and areas of high disturbance do not require any further archaeological investigations.

Stage 3 - Aboriginal cultural heritage assessment methodology

The assessment process includes the following tasks:

Background Research

This task identifies known Aboriginal sites, areas of potential archaeological sensitivity and previous disturbance, and informs the predictive modelling for the assessment/study area. Biosis has undertaken the following tasks as part of the background research for this assessment:

- A search of the Aboriginal Heritage Information Management System (AHIMS) was completed to identify registered sites in the vicinity of the assessment/study area. The results of the AHIMS search has been used to obtain relevant site cards and relevant previously completed Aboriginal cultural heritage assessments.
- Review of relevant reports identified through the AHIMS search.
- Review of aerial photographs and other resources to gauge the existing landscape and previous history of land disturbance.
- Review of the historical heritage databases.
- A brief summary of the historical uses of the study areas.

The background research has identified that the proposed works has the potential to impact on the following AHIMS sites (Figure 3 and Figure 4):

- Northern Precinct
 - Boomberry Point 1 (AHIMS 52-5-0223)
 - Gilba Road 1 (AHIMS 52-5-0642)
 - Elizabeth Point (AHIMS 52-5-0225)
 - Gilba Road 2 Fill 1 (AHIMS 52-5-0643)
- Central Precinct
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 - TLPD AFT 8 (AHIMS 52-5-0614)



- TLPD AFT 9 (AHIMS 52-5-0615)

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 inputting into management options.

Aboriginal community consultation will be undertaken in accordance with *the Aboriginal cultural heritage consultation requirements for proponents 2010*, which includes:

- COMPLETED. Biosis ascertained 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.
- **COMPLETED.** Aboriginal stakeholders were provided with notification by letter of the proposed project on 26 June 2017 via Biosis on behalf of Cardno and given the opportunity to be involved in consultation.
- This document outlines the details of the proposed project and proposed archaeological testing methodology. The registered Aboriginal parties must be given an opportunity to review and provide feedback to the proponent within a minimum of **28 days** of Biosis providing the methodology document.
- The DRAFT Aboriginal Cultural Heritage Assessment Report (ACHAR) and Archaeological Report (AR) 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.
- Representatives of the registered Aboriginal parties will be invited to participate in any archaeological excavations which will take place within the study areas

Field Survey

A number of archaeological surveys have been undertaken within the study area over the last 10 years. An inspection of the assessment area has been undertaken as part of the current assessment in order to identify any previously unknown Aboriginal objects or places, should they be present, and to record the current condition of AHIMS sites.

Any known sites identified by the AHIMS search which are within the assessment area were inspected to determine their current condition. Registered sites in the near vicinity were visited to ensure they will not be impacted by the proposed works. Areas of potential archaeological deposit (PAD) identified by previous assessments were also be inspected.

Mapping was undertaken in ArcGIS and MapInfo Professional.

Archaeological testing

The archaeological survey and desktop assessment have identified that the proposed works have the potential to impact on eight AHIMS sites (Figure 3 and Figure 4) and areas identified as having moderate and high archaeological potential (Figure 5 and Figure 6). Biosis is therefore recommending Aboriginal archaeological test excavations be undertaken accordance with the *Code of Practice for archaeological*



investigation for Aboriginal objects in NSW (DECCW 2010) in areas of moderate and high archaeological potential should the proposed modifications to the concept approval be granted.

Aboriginal cultural heritage assessment report and archaeological report

Biosis Pty Ltd will prepare an Archaeological cultural heritage assessment report (ACHAR) and archaeological report (AR) for the proposed project. The ACHAR will document the findings of the assessment, and detail the consultation process. The AR will be included as an appendix to the ACHAR and will document the desktop assessment, archaeological survey, and test excavation results.

The main aim of the report is to document the assessment of potential development related impacts to Aboriginal cultural heritage and to formulate strategies to manage these impacts. Reporting will follow the guidelines of the OEH, in particular the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010a), the Code of Practice and the *Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW* (OEH 2011).

The report will contain:

- Details of the Aboriginal consultation process undertaken as part of the assessment
- A review and summary of the environmental context of the study area
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- Management strategies
- Maps detailing any Aboriginal sites identified during the assessment process.
- The RAPs will be provided with the draft archaeological and cultural heritage report and their comments on report content sought.
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The final report will incorporate all comments.



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High
Moderate
Low



22 September 2017

Mr Duncan Falk PO Box 1018 Mittagong, NSW 2575 Duncan Falk Consultancy DuncanFalk@hotmail.com Ph: 0406 610 644

Dear Duncan

Re: Project Information and Assessment Methodology, Aboriginal Cultural Heritage Assessment: Northern and Central Precincts at Tallawarra, Yallah NSW Our Ref: Matter 24090

The following project information and assessment methodology has been provided in accordance with the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010). The aim of this document is to provide registered Aboriginal parties (RAPs) with information about proposed project, and the proposed Aboriginal cultural heritage assessment process.

It would be appreciated if you would provide feedback on the methodology presented in this letter to Biosis by **5 pm Friday 20 October 2017** either by email, phone or return mail.

Please address feedback on the methodology to:

Taryn Gooley Consultant Archaeologist 8 Tate Street Wollongong, NSW 2500 (02) 4201 1090 tgooley@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.

Yours sincerely,

4

Taryn Gooley Consultant Archaeologist

Biosis Pty Ltd
Newcastle Resource Group



Stage 2 – Project information

Proposed development

Concept approval for the Tallawarra Lands Mixed Use Development was granted on 23 May 2013 (MP09_0131). The concept plan consists of residential (approximately 1,010 lots, together with 200 retirement dwellings), commercial, industrial (approximately 40ha) and retail development (approximately 16ha), public open space areas, new recreational facilities, internal road network, environmental management, conservation areas and riparian corridors.

Bridgehill Group have acquired some of the Tallawarra Lands in the Northern and Central Precincts from Energy Australia, and intend to develop new residential communities and a light industrial development and tourism facilities on those lands.

Bridgehill Group, intends to lodge a development application for the Northern Precinct under Part 4 of the *Environmental Planning and Assessment Act 1979*; and to modify the existing concept approval for the Northern and Central Precinct at Tallawarra, Yallah (MP 09_0131 MOD 1) under Part 3A section 75W of the *Environmental Planning and Assessment Act 1979*.

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Lot	DP
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Previous Archaeological Assessment

Biosis prepared an Aboriginal Archaeological Assessment report for the Tallawarra Lands Part 3A Concept Plan Application in 2010. Aboriginal Community consultation was undertaken for this assessment in accordance with the Draft Guidelines for Aboriginal Cultural Heritage Impact Assessment and Community Consultation (DECC NSW 2005) for projects being assessed under Part 3A of the EP&A Act. Nine Aboriginal stakeholders registered an interest in the project, each group was invited to participate in the sub-surface archaeological investigations, consultation meetings and development of management and mitigation measures for this project.

The assessment involved subsurface investigations of a number of Potential Archaeological Deposit (PAD) locations and sensitive landforms within the Tallawarra Lands. A 'gap analysis' was undertaken to ensure that all information relevant to Tallawarra Lands was captured. This included searches of relevant heritage registers and databases, along with a review of the environmental context, regional archaeological patterning based on previous studies, and predictive modelling to confirm placement of proposed test pits to be excavated during the sub-surface investigations.

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High
Moderate
Low



22 September 2017

Basil Smith 66 Grantham Road Batehaven, NSW 2536 Goobah Development Pty Ltd (Murrin Clan/Peoples) bunjilsmith@gmail.com Ph: 0405 995 725

Dear Basil

Re: Project Information and Assessment Methodology, Aboriginal Cultural Heritage Assessment: Northern and Central Precincts at Tallawarra, Yallah NSW Our Ref: Matter 24090

The following project information and assessment methodology has been provided in accordance with the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010). The aim of this document is to provide registered Aboriginal parties (RAPs) with information about proposed project, and the proposed Aboriginal cultural heritage assessment process.

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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.

Yours sincerely,

Taryn Gooley Consultant Archaeologist

Biosis Pty Ltd
Newcastle Resource Group



Stage 2 – Project information

Proposed development

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Stage 3 - Aboriginal cultural heritage assessment methodology

The assessment process includes the following tasks:

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High
Moderate
Low



22 September 2017

Mr Richard Campbell 2 Minda Crescent Oakflats, NSW 2529 Guunamaa Dreaming Sites and Surveying richardcampbell123@outlook.com Ph: 0499 688 663

Dear Richard

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- Modify the overall approved residential yield from 1010 to 1480 lots.

The proposed modifications will result in reduced environmental lands between the Central and Northern precincts. Details on the proposed modification are outlined in Table 1 below.

Table 1 Proposed modification details - residential lots

Area	Approved Concept Yeild	Proposed modification
Central Precinct	350 Lots	588 Lots
Northern Precinct	310 Lots	542 Lots

Study area

The study area is located in the suburb of Yallah within the Wollongong Local Government Area and is located approximately 13 km south of Wollongong town centre. The Northern Precinct covers an area of 45.06 hectares (Figure 1), while the Central Precincts comprises two areas of 73.2 hectares and 6.497 hectares respectively (Figure 2). Table 2 and Table 3 below, detail the Lot and DP's for each precinct.



DP
551658
716727
1050255
1146409
543285
1049520
1049520

Table 2 Central precinct Lot and DP's

Table 3 Northern precinct Lot and DP's

Lot	DP
30	1175058
31	1175058

Previous Archaeological Assessment

Biosis prepared an Aboriginal Archaeological Assessment report for the Tallawarra Lands Part 3A Concept Plan Application in 2010. Aboriginal Community consultation was undertaken for this assessment in accordance with the Draft Guidelines for Aboriginal Cultural Heritage Impact Assessment and Community Consultation (DECC NSW 2005) for projects being assessed under Part 3A of the EP&A Act. Nine Aboriginal stakeholders registered an interest in the project, each group was invited to participate in the sub-surface archaeological investigations, consultation meetings and development of management and mitigation measures for this project.

The assessment involved subsurface investigations of a number of Potential Archaeological Deposit (PAD) locations and sensitive landforms within the Tallawarra Lands. A 'gap analysis' was undertaken to ensure that all information relevant to Tallawarra Lands was captured. This included searches of relevant heritage registers and databases, along with a review of the environmental context, regional archaeological patterning based on previous studies, and predictive modelling to confirm placement of proposed test pits to be excavated during the sub-surface investigations.

The predictive modelling suggested that there is high potential for additional shell middens, stone artefact scatters and or isolated finds to be identified within the Tallawarra Lands. Where previous land use has resulted in high levels of disturbance, archaeological sites will have low integrity. The archaeological sub-surface investigations undertaken resulted in the in the identification of eight new Aboriginal archaeological



sites across the Tallawarra Lands including four isolated artefacts and four campsites. Areas of high, moderate, low, and no areas of archaeological potential have been defined across the Tallawarra Lands.

The majority of the Northern Precinct was assessed as having moderate archaeological potential with small areas of low archaeological potential also being identified. The Central Precinct was identified as having areas of high, moderate and low archaeological potential.

The Biosis (2010) assessment recommended further archaeological assessment such as test excavations and recording be undertaken in areas of moderate and high archaeological potential if impacts on those areas cannot be avoided. Areas of low or no archaeological potential and areas of high disturbance do not require any further archaeological investigations.

Stage 3 - Aboriginal cultural heritage assessment methodology

The assessment process includes the following tasks:

Background Research

This task identifies known Aboriginal sites, areas of potential archaeological sensitivity and previous disturbance, and informs the predictive modelling for the assessment/study area. Biosis has undertaken the following tasks as part of the background research for this assessment:

- A search of the Aboriginal Heritage Information Management System (AHIMS) was completed to identify registered sites in the vicinity of the assessment/study area. The results of the AHIMS search has been used to obtain relevant site cards and relevant previously completed Aboriginal cultural heritage assessments.
- Review of relevant reports identified through the AHIMS search.
- Review of aerial photographs and other resources to gauge the existing landscape and previous history of land disturbance.
- Review of the historical heritage databases.
- A brief summary of the historical uses of the study areas.

The background research has identified that the proposed works has the potential to impact on the following AHIMS sites (Figure 3 and Figure 4):

- Northern Precinct
 - Boomberry Point 1 (AHIMS 52-5-0223)
 - Gilba Road 1 (AHIMS 52-5-0642)
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- TLPD AFT 9 (AHIMS 52-5-0615)

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 inputting into management options.

Aboriginal community consultation will be undertaken in accordance with *the Aboriginal cultural heritage consultation requirements for proponents 2010*, which includes:

- COMPLETED. Biosis ascertained 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.
- **COMPLETED.** Aboriginal stakeholders were provided with notification by letter of the proposed project on 26 June 2017 via Biosis on behalf of Cardno and given the opportunity to be involved in consultation.
- This document outlines the details of the proposed project and proposed archaeological testing methodology. The registered Aboriginal parties must be given an opportunity to review and provide feedback to the proponent within a minimum of **28 days** of Biosis providing the methodology document.
- The DRAFT Aboriginal Cultural Heritage Assessment Report (ACHAR) and Archaeological Report (AR) 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.
- Representatives of the registered Aboriginal parties will be invited to participate in any archaeological excavations which will take place within the study areas

Field Survey

A number of archaeological surveys have been undertaken within the study area over the last 10 years. An inspection of the assessment area has been undertaken as part of the current assessment in order to identify any previously unknown Aboriginal objects or places, should they be present, and to record the current condition of AHIMS sites.

Any known sites identified by the AHIMS search which are within the assessment area were inspected to determine their current condition. Registered sites in the near vicinity were visited to ensure they will not be impacted by the proposed works. Areas of potential archaeological deposit (PAD) identified by previous assessments were also be inspected.

Mapping was undertaken in ArcGIS and MapInfo Professional.

Archaeological testing

The archaeological survey and desktop assessment have identified that the proposed works have the potential to impact on eight AHIMS sites (Figure 3 and Figure 4) and areas identified as having moderate and high archaeological potential (Figure 5 and Figure 6). Biosis is therefore recommending Aboriginal archaeological test excavations be undertaken accordance with the *Code of Practice for archaeological*



investigation for Aboriginal objects in NSW (DECCW 2010) in areas of moderate and high archaeological potential should the proposed modifications to the concept approval be granted.

Aboriginal cultural heritage assessment report and archaeological report

Biosis Pty Ltd will prepare an Archaeological cultural heritage assessment report (ACHAR) and archaeological report (AR) for the proposed project. The ACHAR will document the findings of the assessment, and detail the consultation process. The AR will be included as an appendix to the ACHAR and will document the desktop assessment, archaeological survey, and test excavation results.

The main aim of the report is to document the assessment of potential development related impacts to Aboriginal cultural heritage and to formulate strategies to manage these impacts. Reporting will follow the guidelines of the OEH, in particular the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010a), the Code of Practice and the *Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW* (OEH 2011).

The report will contain:

- Details of the Aboriginal consultation process undertaken as part of the assessment
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- Comments on the report's content are to be provided to Biosis by the party's respective nominated spokesperson(s). All comments not provided in writing will be recorded in an informal logbook by Biosis.
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High
Moderate
Low



22 September 2017

Illawarra Local Aboriginal Land Council (ILALC) 3 Ellen Street Wollongong, NSW 2500 ceo@ilalc.org.au

Dear Illawarra Local Aboriginal Land Council

Re: Project Information and Assessment Methodology, Aboriginal Cultural Heritage Assessment: Northern and Central Precincts at Tallawarra, Yallah NSW Our Ref: Matter 24090

The following project information and assessment methodology has been provided in accordance with the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010). The aim of this document is to provide registered Aboriginal parties (RAPs) with information about proposed project, and the proposed Aboriginal cultural heritage assessment process.

It would be appreciated if you would provide feedback on the methodology presented in this letter to Biosis by **5 pm Friday 20 October 2017** either by email, phone or return mail.

Please address feedback on the methodology to:

Taryn Gooley Consultant Archaeologist 8 Tate Street Wollongong, NSW 2500 (02) 4201 1090 tgooley@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.

Yours sincerely,

Taryn Gooley Consultant Archaeologist

Biosis Pty Ltd Newcastle Resource Group



Stage 2 – Project information

Proposed development

Concept approval for the Tallawarra Lands Mixed Use Development was granted on 23 May 2013 (MP09_0131). The concept plan consists of residential (approximately 1,010 lots, together with 200 retirement dwellings), commercial, industrial (approximately 40ha) and retail development (approximately 16ha), public open space areas, new recreational facilities, internal road network, environmental management, conservation areas and riparian corridors.

Bridgehill Group have acquired some of the Tallawarra Lands in the Northern and Central Precincts from Energy Australia, and intend to develop new residential communities and a light industrial development and tourism facilities on those lands.

Bridgehill Group, intends to lodge a development application for the Northern Precinct under Part 4 of the *Environmental Planning and Assessment Act 1979*; and to modify the existing concept approval for the Northern and Central Precinct at Tallawarra, Yallah (MP 09_0131 MOD 1) under Part 3A section 75W of the *Environmental Planning and Assessment Act 1979*.

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High
Moderate
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22 September 2017

Mr James Davis 2 Poplar Avenue Unanderra, NSW 2526 jvdcorp@hotmail.com Ph: 0423 715 395

Dear James

Re: Project Information and Assessment Methodology, Aboriginal Cultural Heritage Assessment: Northern and Central Precincts at Tallawarra, Yallah NSW Our Ref: Matter 24090

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Newcastle Resource Group



Stage 2 – Project information

Proposed development

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High
Moderate
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22 September 2017

Mr Aaron Broad 1 Waratah Avenue Albion Park Rail, NSW 2527 Minnamunnung minnamunnung@gmail.com Ph: 0402 526 888

Dear Aaron

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Central Precinct	350 Lots	588 Lots
Northern Precinct	310 Lots	542 Lots

Study area

The study area is located in the suburb of Yallah within the Wollongong Local Government Area and is located approximately 13 km south of Wollongong town centre. The Northern Precinct covers an area of 45.06 hectares (Figure 1), while the Central Precincts comprises two areas of 73.2 hectares and 6.497 hectares respectively (Figure 2). Table 2 and Table 3 below, detail the Lot and DP's for each precinct.



Table 2	Central precinct Lot and DP's
Lot	DP
1	551658
102	716727
15	1050255
1	1146409
1	543285
7	1049520
8	1049520

Table 2 Central precinct Lot and DP's

Table 3 Northern precinct Lot and DP's

Lot	DP
30	1175058
31	1175058

Previous Archaeological Assessment

Biosis prepared an Aboriginal Archaeological Assessment report for the Tallawarra Lands Part 3A Concept Plan Application in 2010. Aboriginal Community consultation was undertaken for this assessment in accordance with the Draft Guidelines for Aboriginal Cultural Heritage Impact Assessment and Community Consultation (DECC NSW 2005) for projects being assessed under Part 3A of the EP&A Act. Nine Aboriginal stakeholders registered an interest in the project, each group was invited to participate in the sub-surface archaeological investigations, consultation meetings and development of management and mitigation measures for this project.

The assessment involved subsurface investigations of a number of Potential Archaeological Deposit (PAD) locations and sensitive landforms within the Tallawarra Lands. A 'gap analysis' was undertaken to ensure that all information relevant to Tallawarra Lands was captured. This included searches of relevant heritage registers and databases, along with a review of the environmental context, regional archaeological patterning based on previous studies, and predictive modelling to confirm placement of proposed test pits to be excavated during the sub-surface investigations.

The predictive modelling suggested that there is high potential for additional shell middens, stone artefact scatters and or isolated finds to be identified within the Tallawarra Lands. Where previous land use has resulted in high levels of disturbance, archaeological sites will have low integrity. The archaeological sub-surface investigations undertaken resulted in the in the identification of eight new Aboriginal archaeological



sites across the Tallawarra Lands including four isolated artefacts and four campsites. Areas of high, moderate, low, and no areas of archaeological potential have been defined across the Tallawarra Lands.

The majority of the Northern Precinct was assessed as having moderate archaeological potential with small areas of low archaeological potential also being identified. The Central Precinct was identified as having areas of high, moderate and low archaeological potential.

The Biosis (2010) assessment recommended further archaeological assessment such as test excavations and recording be undertaken in areas of moderate and high archaeological potential if impacts on those areas cannot be avoided. Areas of low or no archaeological potential and areas of high disturbance do not require any further archaeological investigations.

Stage 3 - Aboriginal cultural heritage assessment methodology

The assessment process includes the following tasks:

Background Research

This task identifies known Aboriginal sites, areas of potential archaeological sensitivity and previous disturbance, and informs the predictive modelling for the assessment/study area. Biosis has undertaken the following tasks as part of the background research for this assessment:

- A search of the Aboriginal Heritage Information Management System (AHIMS) was completed to identify registered sites in the vicinity of the assessment/study area. The results of the AHIMS search has been used to obtain relevant site cards and relevant previously completed Aboriginal cultural heritage assessments.
- Review of relevant reports identified through the AHIMS search.
- Review of aerial photographs and other resources to gauge the existing landscape and previous history of land disturbance.
- Review of the historical heritage databases.
- A brief summary of the historical uses of the study areas.

The background research has identified that the proposed works has the potential to impact on the following AHIMS sites (Figure 3 and Figure 4):

- Northern Precinct
 - Boomberry Point 1 (AHIMS 52-5-0223)
 - Gilba Road 1 (AHIMS 52-5-0642)
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- TLPD AFT 9 (AHIMS 52-5-0615)

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 inputting into management options.

Aboriginal community consultation will be undertaken in accordance with *the Aboriginal cultural heritage consultation requirements for proponents 2010*, which includes:

- COMPLETED. Biosis ascertained 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.
- **COMPLETED.** Aboriginal stakeholders were provided with notification by letter of the proposed project on 26 June 2017 via Biosis on behalf of Cardno and given the opportunity to be involved in consultation.
- This document outlines the details of the proposed project and proposed archaeological testing methodology. The registered Aboriginal parties must be given an opportunity to review and provide feedback to the proponent within a minimum of **28 days** of Biosis providing the methodology document.
- The DRAFT Aboriginal Cultural Heritage Assessment Report (ACHAR) and Archaeological Report (AR) 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.
- Representatives of the registered Aboriginal parties will be invited to participate in any archaeological excavations which will take place within the study areas

Field Survey

A number of archaeological surveys have been undertaken within the study area over the last 10 years. An inspection of the assessment area has been undertaken as part of the current assessment in order to identify any previously unknown Aboriginal objects or places, should they be present, and to record the current condition of AHIMS sites.

Any known sites identified by the AHIMS search which are within the assessment area were inspected to determine their current condition. Registered sites in the near vicinity were visited to ensure they will not be impacted by the proposed works. Areas of potential archaeological deposit (PAD) identified by previous assessments were also be inspected.

Mapping was undertaken in ArcGIS and MapInfo Professional.

Archaeological testing

The archaeological survey and desktop assessment have identified that the proposed works have the potential to impact on eight AHIMS sites (Figure 3 and Figure 4) and areas identified as having moderate and high archaeological potential (Figure 5 and Figure 6). Biosis is therefore recommending Aboriginal archaeological test excavations be undertaken accordance with the *Code of Practice for archaeological*



investigation for Aboriginal objects in NSW (DECCW 2010) in areas of moderate and high archaeological potential should the proposed modifications to the concept approval be granted.

Aboriginal cultural heritage assessment report and archaeological report

Biosis Pty Ltd will prepare an Archaeological cultural heritage assessment report (ACHAR) and archaeological report (AR) for the proposed project. The ACHAR will document the findings of the assessment, and detail the consultation process. The AR will be included as an appendix to the ACHAR and will document the desktop assessment, archaeological survey, and test excavation results.

The main aim of the report is to document the assessment of potential development related impacts to Aboriginal cultural heritage and to formulate strategies to manage these impacts. Reporting will follow the guidelines of the OEH, in particular the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010a), the Code of Practice and the *Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW* (OEH 2011).

The report will contain:

- Details of the Aboriginal consultation process undertaken as part of the assessment
- A review and summary of the environmental context of the study area
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- Impact assessment
- Management strategies
- Maps detailing any Aboriginal sites identified during the assessment process.
- The RAPs will be provided with the draft archaeological and cultural heritage report and their comments on report content sought.
- Comments on the report's content are to be provided to Biosis by the party's respective nominated spokesperson(s). All comments not provided in writing will be recorded in an informal logbook by Biosis.
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As part of this methodology 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.



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High
Moderate
Low



22 September 2017

Ms Roxanne Smith Murramarang (Murrin Clan/Peoples) murramarangchts@gmail.com

Dear Roxanne

Re: Project Information and Assessment Methodology, Aboriginal Cultural Heritage Assessment: Northern and Central Precincts at Tallawarra, Yallah NSW Our Ref: Matter 24090

The following project information and assessment methodology has been provided in accordance with the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010). The aim of this document is to provide registered Aboriginal parties (RAPs) with information about proposed project, and the proposed Aboriginal cultural heritage assessment process.

It would be appreciated if you would provide feedback on the methodology presented in this letter to Biosis by **5 pm Friday 20 October 2017** either by email, phone or return mail.

Please address feedback on the methodology to:

Taryn Gooley Consultant Archaeologist 8 Tate Street Wollongong, NSW 2500 (02) 4201 1090 tgooley@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.

Yours sincerely,

Taryn Gooley Consultant Archaeologist

Biosis Pty Ltd Newcastle Resource Group



Stage 2 – Project information

Proposed development

Concept approval for the Tallawarra Lands Mixed Use Development was granted on 23 May 2013 (MP09_0131). The concept plan consists of residential (approximately 1,010 lots, together with 200 retirement dwellings), commercial, industrial (approximately 40ha) and retail development (approximately 16ha), public open space areas, new recreational facilities, internal road network, environmental management, conservation areas and riparian corridors.

Bridgehill Group have acquired some of the Tallawarra Lands in the Northern and Central Precincts from Energy Australia, and intend to develop new residential communities and a light industrial development and tourism facilities on those lands.

Bridgehill Group, intends to lodge a development application for the Northern Precinct under Part 4 of the *Environmental Planning and Assessment Act 1979*; and to modify the existing concept approval for the Northern and Central Precinct at Tallawarra, Yallah (MP 09_0131 MOD 1) under Part 3A section 75W of the *Environmental Planning and Assessment Act 1979*.

The proposed modification seeks to:

- Increase the footprint for residential development in the Central and Northern precincts; and
- Modify the overall approved residential yield from 1010 to 1480 lots.

The proposed modifications will result in reduced environmental lands between the Central and Northern precincts. Details on the proposed modification are outlined in Table 1 below.

Table 1 Proposed modification details - residential lots

Area	Approved Concept Yeild	Proposed modification
Central Precinct	350 Lots	588 Lots
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The study area is located in the suburb of Yallah within the Wollongong Local Government Area and is located approximately 13 km south of Wollongong town centre. The Northern Precinct covers an area of 45.06 hectares (Figure 1), while the Central Precincts comprises two areas of 73.2 hectares and 6.497 hectares respectively (Figure 2). Table 2 and Table 3 below, detail the Lot and DP's for each precinct.



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The assessment involved subsurface investigations of a number of Potential Archaeological Deposit (PAD) locations and sensitive landforms within the Tallawarra Lands. A 'gap analysis' was undertaken to ensure that all information relevant to Tallawarra Lands was captured. This included searches of relevant heritage registers and databases, along with a review of the environmental context, regional archaeological patterning based on previous studies, and predictive modelling to confirm placement of proposed test pits to be excavated during the sub-surface investigations.

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High
Moderate
Low



22 September 2017

Mr Keith Ball 43 Coruma Cresent Flinders, NSW 2529 The Wadi Wadi Coomaditchie Aboriginal Corporation

Dear Keith

Re: Project Information and Assessment Methodology, Aboriginal Cultural Heritage Assessment: Northern and Central Precincts at Tallawarra, Yallah NSW Our Ref: Matter 24090

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Yours sincerely,

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Biosis Pty Ltd Newcastle Resource Group



Stage 2 – Project information

Proposed development

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High
Moderate
Low



22 September 2017

Mr Leonard Wright 40 Tuggerah Circuit Flinders, NSW 2529 Three Ducks Dreaming Surveying and Consulting Ibjwright1977@hotmail.com Ph: 0422 382 950

Dear Leonard

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The study area is located in the suburb of Yallah within the Wollongong Local Government Area and is located approximately 13 km south of Wollongong town centre. The Northern Precinct covers an area of 45.06 hectares (Figure 1), while the Central Precincts comprises two areas of 73.2 hectares and 6.497 hectares respectively (Figure 2). Table 2 and Table 3 below, detail the Lot and DP's for each precinct.



Table 2	Central precinct Lot and DP's
Lot	DP
1	551658
102	716727
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7	1049520
8	1049520

Table 2 Central precinct Lot and DP's

Table 3 Northern precinct Lot and DP's

Lot	DP
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Biosis prepared an Aboriginal Archaeological Assessment report for the Tallawarra Lands Part 3A Concept Plan Application in 2010. Aboriginal Community consultation was undertaken for this assessment in accordance with the Draft Guidelines for Aboriginal Cultural Heritage Impact Assessment and Community Consultation (DECC NSW 2005) for projects being assessed under Part 3A of the EP&A Act. Nine Aboriginal stakeholders registered an interest in the project, each group was invited to participate in the sub-surface archaeological investigations, consultation meetings and development of management and mitigation measures for this project.

The assessment involved subsurface investigations of a number of Potential Archaeological Deposit (PAD) locations and sensitive landforms within the Tallawarra Lands. A 'gap analysis' was undertaken to ensure that all information relevant to Tallawarra Lands was captured. This included searches of relevant heritage registers and databases, along with a review of the environmental context, regional archaeological patterning based on previous studies, and predictive modelling to confirm placement of proposed test pits to be excavated during the sub-surface investigations.

The predictive modelling suggested that there is high potential for additional shell middens, stone artefact scatters and or isolated finds to be identified within the Tallawarra Lands. Where previous land use has resulted in high levels of disturbance, archaeological sites will have low integrity. The archaeological sub-surface investigations undertaken resulted in the in the identification of eight new Aboriginal archaeological



sites across the Tallawarra Lands including four isolated artefacts and four campsites. Areas of high, moderate, low, and no areas of archaeological potential have been defined across the Tallawarra Lands.

The majority of the Northern Precinct was assessed as having moderate archaeological potential with small areas of low archaeological potential also being identified. The Central Precinct was identified as having areas of high, moderate and low archaeological potential.

The Biosis (2010) assessment recommended further archaeological assessment such as test excavations and recording be undertaken in areas of moderate and high archaeological potential if impacts on those areas cannot be avoided. Areas of low or no archaeological potential and areas of high disturbance do not require any further archaeological investigations.

Stage 3 - Aboriginal cultural heritage assessment methodology

The assessment process includes the following tasks:

Background Research

This task identifies known Aboriginal sites, areas of potential archaeological sensitivity and previous disturbance, and informs the predictive modelling for the assessment/study area. Biosis has undertaken the following tasks as part of the background research for this assessment:

- A search of the Aboriginal Heritage Information Management System (AHIMS) was completed to identify registered sites in the vicinity of the assessment/study area. The results of the AHIMS search has been used to obtain relevant site cards and relevant previously completed Aboriginal cultural heritage assessments.
- Review of relevant reports identified through the AHIMS search.
- Review of aerial photographs and other resources to gauge the existing landscape and previous history of land disturbance.
- Review of the historical heritage databases.
- A brief summary of the historical uses of the study areas.

The background research has identified that the proposed works has the potential to impact on the following AHIMS sites (Figure 3 and Figure 4):

- Northern Precinct
 - Boomberry Point 1 (AHIMS 52-5-0223)
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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 inputting into management options.

Aboriginal community consultation will be undertaken in accordance with *the Aboriginal cultural heritage consultation requirements for proponents 2010*, which includes:

- COMPLETED. Biosis ascertained 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.
- **COMPLETED.** Aboriginal stakeholders were provided with notification by letter of the proposed project on 26 June 2017 via Biosis on behalf of Cardno and given the opportunity to be involved in consultation.
- This document outlines the details of the proposed project and proposed archaeological testing methodology. The registered Aboriginal parties must be given an opportunity to review and provide feedback to the proponent within a minimum of **28 days** of Biosis providing the methodology document.
- The DRAFT Aboriginal Cultural Heritage Assessment Report (ACHAR) and Archaeological Report (AR) 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.
- Representatives of the registered Aboriginal parties will be invited to participate in any archaeological excavations which will take place within the study areas

Field Survey

A number of archaeological surveys have been undertaken within the study area over the last 10 years. An inspection of the assessment area has been undertaken as part of the current assessment in order to identify any previously unknown Aboriginal objects or places, should they be present, and to record the current condition of AHIMS sites.

Any known sites identified by the AHIMS search which are within the assessment area were inspected to determine their current condition. Registered sites in the near vicinity were visited to ensure they will not be impacted by the proposed works. Areas of potential archaeological deposit (PAD) identified by previous assessments were also be inspected.

Mapping was undertaken in ArcGIS and MapInfo Professional.

Archaeological testing

The archaeological survey and desktop assessment have identified that the proposed works have the potential to impact on eight AHIMS sites (Figure 3 and Figure 4) and areas identified as having moderate and high archaeological potential (Figure 5 and Figure 6). Biosis is therefore recommending Aboriginal archaeological test excavations be undertaken accordance with the *Code of Practice for archaeological*



investigation for Aboriginal objects in NSW (DECCW 2010) in areas of moderate and high archaeological potential should the proposed modifications to the concept approval be granted.

Aboriginal cultural heritage assessment report and archaeological report

Biosis Pty Ltd will prepare an Archaeological cultural heritage assessment report (ACHAR) and archaeological report (AR) for the proposed project. The ACHAR will document the findings of the assessment, and detail the consultation process. The AR will be included as an appendix to the ACHAR and will document the desktop assessment, archaeological survey, and test excavation results.

The main aim of the report is to document the assessment of potential development related impacts to Aboriginal cultural heritage and to formulate strategies to manage these impacts. Reporting will follow the guidelines of the OEH, in particular the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010a), the Code of Practice and the *Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW* (OEH 2011).

The report will contain:

- Details of the Aboriginal consultation process undertaken as part of the assessment
- A review and summary of the environmental context of the study area
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- Impact assessment
- Management strategies
- Maps detailing any Aboriginal sites identified during the assessment process.
- The RAPs will be provided with the draft archaeological and cultural heritage report and their comments on report content sought.
- Comments on the report's content are to be provided to Biosis by the party's respective nominated spokesperson(s). All comments not provided in writing will be recorded in an informal logbook by Biosis.
- These comments and responses to these comments will be documented in the final ACHAR.

As part of this methodology 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.



References

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High
Moderate
Low



22 September 2017

Mr Nathanial Kennedy 45 Rosemont Street West Wollongong, NSW 2500 Warra Bingi Nunda Gurri Indigenous Sites Conservation warrabingi@gmail.com Ph: 0406924258

Dear Nathanial

Re: Project Information and Assessment Methodology, Aboriginal Cultural Heritage Assessment: Northern and Central Precincts at Tallawarra, Yallah NSW Our Ref: Matter 24090

The following project information and assessment methodology has been provided in accordance with the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010). The aim of this document is to provide registered Aboriginal parties (RAPs) with information about proposed project, and the proposed Aboriginal cultural heritage assessment process.

It would be appreciated if you would provide feedback on the methodology presented in this letter to Biosis by **5 pm Friday 20 October 2017** either by email, phone or return mail.

Please address feedback on the methodology to:

Taryn Gooley Consultant Archaeologist 8 Tate Street Wollongong, NSW 2500 (02) 4201 1090 tgooley@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.

Yours sincerely,

Taryn Gooley Consultant Archaeologist

Biosis Pty Ltd
Newcastle Resource Group



Stage 2 – Project information

Proposed development

Concept approval for the Tallawarra Lands Mixed Use Development was granted on 23 May 2013 (MP09_0131). The concept plan consists of residential (approximately 1,010 lots, together with 200 retirement dwellings), commercial, industrial (approximately 40ha) and retail development (approximately 16ha), public open space areas, new recreational facilities, internal road network, environmental management, conservation areas and riparian corridors.

Bridgehill Group have acquired some of the Tallawarra Lands in the Northern and Central Precincts from Energy Australia, and intend to develop new residential communities and a light industrial development and tourism facilities on those lands.

Bridgehill Group, intends to lodge a development application for the Northern Precinct under Part 4 of the *Environmental Planning and Assessment Act 1979*; and to modify the existing concept approval for the Northern and Central Precinct at Tallawarra, Yallah (MP 09_0131 MOD 1) under Part 3A section 75W of the *Environmental Planning and Assessment Act 1979*.

The proposed modification seeks to:

- Increase the footprint for residential development in the Central and Northern precincts; and
- Modify the overall approved residential yield from 1010 to 1480 lots.

The proposed modifications will result in reduced environmental lands between the Central and Northern precincts. Details on the proposed modification are outlined in Table 1 below.

Table 1 Proposed modification details - residential lots

Area	Approved Concept Yeild	Proposed modification
Central Precinct	350 Lots	588 Lots
Northern Precinct	310 Lots	542 Lots

Study area

The study area is located in the suburb of Yallah within the Wollongong Local Government Area and is located approximately 13 km south of Wollongong town centre. The Northern Precinct covers an area of 45.06 hectares (Figure 1), while the Central Precincts comprises two areas of 73.2 hectares and 6.497 hectares respectively (Figure 2). Table 2 and Table 3 below, detail the Lot and DP's for each precinct.



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Biosis prepared an Aboriginal Archaeological Assessment report for the Tallawarra Lands Part 3A Concept Plan Application in 2010. Aboriginal Community consultation was undertaken for this assessment in accordance with the Draft Guidelines for Aboriginal Cultural Heritage Impact Assessment and Community Consultation (DECC NSW 2005) for projects being assessed under Part 3A of the EP&A Act. Nine Aboriginal stakeholders registered an interest in the project, each group was invited to participate in the sub-surface archaeological investigations, consultation meetings and development of management and mitigation measures for this project.

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High
Moderate
Low



22 September 2017

Ms Kayla Williamson 11 Garnett Grove Flinders, NSW 2529 Woronora Plateau Gundangara Elders Council Kayla_87_@hotmail.com Ph: 0414438744

Dear Kayla

Re: Project Information and Assessment Methodology, Aboriginal Cultural Heritage Assessment: Northern and Central Precincts at Tallawarra, Yallah NSW Our Ref: Matter 24090

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High
Moderate
Low

Hi Ashleigh,

Thanks forbthe email an i am happy with wat is proposed fir the methodology an only thing asked if any artefacts found an finished analyzing from you guys that all go back to Illawarra local aboriginal lands council for future educational design projects runned by them or repat thanks an look forward to hearing from you soon.

Kind regards Leonard Wright

Sent from my Samsung Galaxy smartphone.

------ Original message ------From: Ashleigh Keevers-Eastman Date: 22/9/17 11:44 am (GMT+10:00) To: "'lbjwright1977@hotmail.com''' Subject: Aboriginal Cultural Heritage Assessment: Northern and Central Precincts at Tallawarra, Yallah, NSW

Dear Mr Leonard Wright,

Thank you for your registration of interest in this project. Attached is information about the proposed project and the Aboriginal Cultural Heritage Assessment (ACHA) methodology.

We are seeking your input into the project methodology. It would be appreciated if you could provide feedback on the methodology to Biosis Pty Ltd by **20th of October 2017**, either by email or return mail. Please address methodology feedback to:

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If you have any queries regarding the project or the information in this letter, please don't hesitate Taryn Gooley on (02) 4201 1090.

Kind regards, Ashleigh Keevers-Eastman Research Assistant Biosis Pty Ltd.

Ashleigh Keevers-Eastman Research Assistant - Heritage M: 0428 175 025 D: (02) 4911 4042

E: akeevers-eastman@biosis.com.au



Leaders in Ecology and Heritage Consulting

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EMAIL: DARUGLANDOBSERVATIONS@GMAIL.COM PO BOX 2006 BENDALONG NSW 2539 MOBILE: 0413 687 279

28th September, 2017

Matter # 24090

Taryn Gooley Biosis Pty Ltd 8 Tate Street WOLLONGONG NSW 2500

Email: tgooley@biosis.com.au

Dear Taryn,

RE: NORTHERN AND CENTRAL PRECINCTS AT TALLAWARRA, YALLAH, NSW

Project Information and Assessment Methodology

Darug Land Observations Pty Ltd (DLO) has reviewed the project information and assessment methodology, and supports the methodology for the proposed Tallawarra Lands mixed-use development, consisting of residential, commercial, industrial and retail development. As well as public open space areas, new recreational facilities, internal road network, environmental management, conservation areas and riparian corridors.

Furthermore, Darug Land Observations Pty Ltd would be involved in the monitoring of the topsoil removal, test excavations and/or any other form of works to be carried out on the site.

Yours sincerely,

gavil Wotzuan

Jamie Workman Darug Land Observations Pty Ltd

liht

Uncle Gordon Workman Darug Elder

From:	Biamanga
To:	Ashleigh Keevers-Eastman; Taryn Gooley
Subject:	Re: Aboriginal Cultural Heritage Assessment: Northern and Central Precincts at Tallawarra, Yallah, NS
Date:	Thursday, 19 October 2017 4:40:06 PM
Attachments:	imagedb69ad.PNG

Hi Taryn

This is Biamangas support of the proposed draft ACHA methodology for the above project.

On Friday, 22 September 2017, Ashleigh Keevers-Eastman <<u>AKeevers-Eastman@biosis.com.au</u>> wrote:

Dear Seli Storer,

Thank you for your registration of interest in this project. Attached is information about the proposed project and the Aboriginal Cultural Heritage Assessment (ACHA) methodology.

We are seeking your input into the project methodology. It would be appreciated if you could provide feedback on the methodology to Biosis Pty Ltd by **20th of October 2017**, either by email or return mail. Please address methodology feedback to:

Taryn Gooley

Consultant Archaeologist

8 Tate Street Wollongong, NSW 2500

(02) 4201 1090

tgooley@biosis.com.au

If you have any queries regarding the project or the information in this letter, please don't hesitate Taryn Gooley on (02) 4201 1090.

Kind regards,

Ashleigh Keevers-Eastman

Research Assistant

Biosis Pty Ltd.

Ashleigh Keevers-Eastman Research Assistant - Heritage M: 0428 175 025 D: (02) 4911 4042 E: <u>akeevers-eastman@biosis.com.au</u>

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Biosis Logo

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.

Kind Regards Seli Storer Chief Executive Officer Biamanga

This email may contain privileged information. Privilege is not waived if it has been sent to you in error, or if you are not the intended recipient. Please immediately notify me and delete the email if you have received this in error.

Hi Taryn Gooley

This is Cullendullas support for the ACHA report for the above project.

On Friday, 22 September 2017, Ashleigh Keevers-Eastman <<u>AKeevers-Eastman@biosis.com.au</u>> wrote:

Dear Corey Smith,

Thank you for your registration of interest in this project. Attached is information about the proposed project and the Aboriginal Cultural Heritage Assessment (ACHA) methodology.

We are seeking your input into the project methodology. It would be appreciated if you could provide feedback on the methodology to Biosis Pty Ltd by **20th of October 2017**, either by email or return mail. Please address methodology feedback to:

Taryn Gooley

Consultant Archaeologist

8 Tate Street Wollongong, NSW 2500

(02) 4201 1090

tgooley@biosis.com.au

If you have any queries regarding the project or the information in this letter, please don't hesitate Taryn Gooley on (02) 4201 1090.

Kind regards,

Ashleigh Keevers-Eastman

Research Assistant

Biosis Pty Ltd.

Ashleigh Keevers-Eastman Research Assistant - Heritage

M: 0428 175 025 D: (02) 4911 4042 E: <u>akeevers-eastman@biosis.com.au</u> Biosis Logo

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--Kind Regards Corey Smith Cultural Heritage Officer Cullendulla

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Hi Taryn

Goobah support the proposed ACHA methodology for the project at Northern and Central Precincts at Tallawarra, Yallah, NSW.

We would like to be informed about any further developments and all correspondence should be sent to this email address thank you.

--Regards Basil Smith Chief Executive Officer Goobah PH 0405995725

This email may contain privileged information. Privilege is not waived if it has been sent to you in error, or if you are not the intended recipient. Please immediately notify me and delete the email if you have received this in error.

From:	Murramarang
To:	<u>Ashleigh Keevers-Eastman; Taryn Gooley</u>
Subject:	Re: Aboriginal Cultural Heritage Assessment: Northern and Central Precincts at Tallawarra, Yallah, NSW
Date:	Thursday, 19 October 2017 4:37:09 PM
Attachments:	image4ccd52.PNG

Hi Taryn

This is Murramarangs support for the proposed ACHA methodology for the above project and we would like to be informed of any further developments thankyou.

On Friday, 22 September 2017, Ashleigh Keevers-Eastman <<u>AKeevers-Eastman@biosis.com.au</u>> wrote:

Dear Roxanne Smith,

Thank you for your registration of interest in this project. Attached is information about the proposed project and the Aboriginal Cultural Heritage Assessment (ACHA) methodology.

We are seeking your input into the project methodology. It would be appreciated if you could provide feedback on the methodology to Biosis Pty Ltd by **20th of October 2017**, either by email or return mail. Please address methodology feedback to:

Taryn Gooley

Consultant Archaeologist

8 Tate Street Wollongong, NSW 2500

(02) 4201 1090

tgooley@biosis.com.au

If you have any queries regarding the project or the information in this letter, please don't hesitate Taryn Gooley on (02) 4201 1090.

Kind regards,

Ashleigh Keevers-Eastman

Research Assistant

Biosis Pty Ltd.

Ashleigh Keevers-Eastman Research Assistant - Heritage M: 0428 175 025 D: (02) 4911 4042 E: <u>akeevers-eastman@biosis.com.au</u>

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Kind Regards Roxanne Smith Cultural Heritage Officer Murramarang

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Appendix 4 Stage 4: Review of draft cultural heritage assessment report



Seli Storer Biamanga (Murrin Clan/Peoples)

Dear Seli Storer,

RE: Northern and Central Precincts at Tallawarra, Yallah NSW, Aboriginal Cultural Heritage Assessment – Draft ACHAR and AR Our Ref: Matter 24090

Following your registration for the Northern and Central Precincts at Tallawarra, Yallah NSW, Aboriginal Cultural Heritage Assessment, enclosed are copies of the draft Aboriginal Cultural Heritage Assessment Reports (ACHAR) and Archaeological Reports (AR) for the project following the completion of the archaeological survey, for your review. Once comments have been received by Registered Aboriginal Parties (RAPs), the comments will be incorporated into a final report which will then be issued to all RAPs for their records.

In accordance with the *aboriginal Cultural Heritage Consultation Requirements for Proponents* (DECCW 2010), we provide the ACHARs and ARs for your review and feedback. If you would like further information, please do not hesitate to contact us. It would be appreciated if you would provide feedback on the reports to Biosis Pty Ltd by **4pm Thursday 30 November 2017** either by email, return mail or a phone call.

Please address feedback on the reports to:

Taryn Gooley Consultant Archaeologist 8 Tate Street Wollongong, NSW 2500 (02) 4201 1090 tgooley@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.

Yours sincerely,

Taryn Gooley Consultant Archaeologist

Biosis Pty Ltd
Newcastle Resource Group



Corey Smith Cullendulla (Murrin Clan/Peoples)

Dear Corey Smith,

RE: Northern and Central Precincts at Tallawarra, Yallah NSW, Aboriginal Cultural Heritage Assessment – Draft ACHAR and AR Our Ref: Matter 24090

Following your registration for the Northern and Central Precincts at Tallawarra, Yallah NSW, Aboriginal Cultural Heritage Assessment, enclosed are copies of the draft Aboriginal Cultural Heritage Assessment Reports (ACHAR) and Archaeological Reports (AR) for the project following the completion of the archaeological survey, for your review. Once comments have been received by Registered Aboriginal Parties (RAPs), the comments will be incorporated into a final report which will then be issued to all RAPs for their records.

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Yours sincerely,

Taryn Gooley Consultant Archaeologist

Biosis Pty Ltd
Newcastle Resource Group



Anna O'Hara Darug Land Observations PO BOX 2006 Bendalong NSW 2539

Dear Anna O'Hara,

RE: Northern and Central Precincts at Tallawarra, Yallah NSW, Aboriginal Cultural Heritage Assessment – Draft ACHAR and AR Our Ref: Matter 24090

Following your registration for the Northern and Central Precincts at Tallawarra, Yallah NSW, Aboriginal Cultural Heritage Assessment, enclosed are copies of the draft Aboriginal Cultural Heritage Assessment Reports (ACHAR) and Archaeological Reports (AR) for the project following the completion of the archaeological survey, for your review. Once comments have been received by Registered Aboriginal Parties (RAPs), the comments will be incorporated into a final report which will then be issued to all RAPs for their records.

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Yours sincerely,

Taryn Gooley Consultant Archaeologist

Biosis Pty Ltd
Newcastle Resource Group

Suite 8, 27 Annie Street Wickham NSW 2293 Phone: 02 4911 4040

ACN 006 175 097 ABN 65 006 175 097 En



Duncan Falk Duncan Falk Consultancy PO Box 1018 Mittagong NSW 2575

Dear Duncan Falk,

RE: Northern and Central Precincts at Tallawarra, Yallah NSW, Aboriginal Cultural Heritage Assessment – Draft ACHAR and AR Our Ref: Matter 24090

Following your registration for the Northern and Central Precincts at Tallawarra, Yallah NSW, Aboriginal Cultural Heritage Assessment, enclosed are copies of the draft Aboriginal Cultural Heritage Assessment Reports (ACHAR) and Archaeological Reports (AR) for the project following the completion of the archaeological survey, for your review. Once comments have been received by Registered Aboriginal Parties (RAPs), the comments will be incorporated into a final report which will then be issued to all RAPs for their records.

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Yours sincerely,

Taryn Gooley Consultant Archaeologist

Biosis Pty Ltd
Newcastle Resource Group

Suite 8, 27 Annie Street Wickham NSW 2293 Phone: 02 4911 4040

ACN 006 175 097 ABN 65 006 175 097 En



Basil Smith Goobah Development Pty Ltd (Murrin Clan/Peoples) 66 Grantham Road Batehaven NSW 2536

Dear Basil Smith,

RE: Northern and Central Precincts at Tallawarra, Yallah NSW, Aboriginal Cultural Heritage Assessment – Draft ACHAR and AR Our Ref: Matter 24090

Following your registration for the Northern and Central Precincts at Tallawarra, Yallah NSW, Aboriginal Cultural Heritage Assessment, enclosed are copies of the draft Aboriginal Cultural Heritage Assessment Reports (ACHAR) and Archaeological Reports (AR) for the project following the completion of the archaeological survey, for your review. Once comments have been received by Registered Aboriginal Parties (RAPs), the comments will be incorporated into a final report which will then be issued to all RAPs for their records.

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Yours sincerely,

Taryn Gooley Consultant Archaeologist

Biosis Pty Ltd
Newcastle Resource Group

Suite 8, 27 Annie Street Wickham NSW 2293 Phone: 02 4911 4040

ACN 006 175 097 ABN 65 006 175 097 Er



Richard Campbell Guunamaa Dreaming Sites and Surveying 2 Minda Crescent Oakflats NSW 2529

Dear Richard Campbell,

RE: Northern and Central Precincts at Tallawarra, Yallah NSW, Aboriginal Cultural Heritage Assessment – Draft ACHAR and AR Our Ref: Matter 24090

Following your registration for the Northern and Central Precincts at Tallawarra, Yallah NSW, Aboriginal Cultural Heritage Assessment, enclosed are copies of the draft Aboriginal Cultural Heritage Assessment Reports (ACHAR) and Archaeological Reports (AR) for the project following the completion of the archaeological survey, for your review. Once comments have been received by Registered Aboriginal Parties (RAPs), the comments will be incorporated into a final report which will then be issued to all RAPs for their records.

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Taryn Gooley Consultant Archaeologist

Biosis Pty Ltd
Newcastle Resource Group

Suite 8, 27 Annie Street Wickham NSW 2293 Phone: 02 4911 4040

ACN 006 175 097 ABN 65 006 175 097 En



Illawarra Local Aboriginal Land Council (ILALC) 3 Ellen Street Wollongong, NSW 2500

Dear Sir or Madam,

RE: Northern and Central Precincts at Tallawarra, Yallah NSW, Aboriginal Cultural Heritage Assessment – Draft ACHAR and AR

Our Ref: Matter 24090

Following your registration for the Northern and Central Precincts at Tallawarra, Yallah NSW, Aboriginal Cultural Heritage Assessment, enclosed are copies of the draft Aboriginal Cultural Heritage Assessment Reports (ACHAR) and Archaeological Reports (AR) for the project following the completion of the archaeological survey, for your review. Once comments have been received by Registered Aboriginal Parties (RAPs), the comments will be incorporated into a final report which will then be issued to all RAPs for their records.

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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.

Yours sincerely,

Taryn Gooley Consultant Archaeologist

Biosis Pty Ltd
Newcastle Resource Group



Aaron Broad Minnamunnung 1 Waratah Avenue Albion Park Rail NSW 2527

Dear Aaron Broad,

RE: Northern and Central Precincts at Tallawarra, Yallah NSW, Aboriginal Cultural Heritage Assessment – Draft ACHAR and AR Our Ref: Matter 24090

Following your registration for the Northern and Central Precincts at Tallawarra, Yallah NSW, Aboriginal Cultural Heritage Assessment, enclosed are copies of the draft Aboriginal Cultural Heritage Assessment Reports (ACHAR) and Archaeological Reports (AR) for the project following the completion of the archaeological survey, for your review. Once comments have been received by Registered Aboriginal Parties (RAPs), the comments will be incorporated into a final report which will then be issued to all RAPs for their records.

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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.

Yours sincerely,

Taryn Gooley Consultant Archaeologist

Biosis Pty Ltd
Newcastle Resource Group

Suite 8, 27 Annie Street Wickham NSW 2293 Phone: 02 4911 4040

ACN 006 175 097 ABN 65 006 175 097 En



Roxanne Smith Murramarang (Murrin Clan/Peoples)

Dear Roxanne Smith,

RE: Northern and Central Precincts at Tallawarra, Yallah NSW, Aboriginal Cultural Heritage Assessment – Draft ACHAR and AR Our Ref: Matter 24090

Following your registration for the Northern and Central Precincts at Tallawarra, Yallah NSW, Aboriginal Cultural Heritage Assessment, enclosed are copies of the draft Aboriginal Cultural Heritage Assessment Reports (ACHAR) and Archaeological Reports (AR) for the project following the completion of the archaeological survey, for your review. Once comments have been received by Registered Aboriginal Parties (RAPs), the comments will be incorporated into a final report which will then be issued to all RAPs for their records.

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Taryn Gooley Consultant Archaeologist 8 Tate Street Wollongong, NSW 2500 (02) 4201 1090 tgooley@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.

Yours sincerely,

Taryn Gooley Consultant Archaeologist

Biosis Pty Ltd
Newcastle Resource Group



Keith Ball The Wadi Wadi Coomaditchie Aboriginal Corporation 43 Coruma Cresent Flinders NSW 2529

Dear Keith Ball,

RE: Northern and Central Precincts at Tallawarra, Yallah NSW, Aboriginal Cultural Heritage Assessment – Draft ACHAR and AR Our Ref: Matter 24090

Following your registration for the Northern and Central Precincts at Tallawarra, Yallah NSW, Aboriginal Cultural Heritage Assessment, enclosed are copies of the draft Aboriginal Cultural Heritage Assessment Reports (ACHAR) and Archaeological Reports (AR) for the project following the completion of the archaeological survey, for your review. Once comments have been received by Registered Aboriginal Parties (RAPs), the comments will be incorporated into a final report which will then be issued to all RAPs for their records.

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Please address feedback on the reports to:

Taryn Gooley Consultant Archaeologist 8 Tate Street Wollongong, NSW 2500 (02) 4201 1090 tgooley@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.

Yours sincerely,

Taryn Gooley Consultant Archaeologist

Biosis Pty Ltd
Newcastle Resource Group

Suite 8, 27 Annie Street Wickham NSW 2293 Phone: 02 4911 4040

ACN 006 175 097 ABN 65 006 175 097 En



Leonard Wright Three Ducks Dreaming Surveying and Consulting 40 Tuggerah Circuit Flinders NSW 2529

Dear Leonard Wright,

RE: Northern and Central Precincts at Tallawarra, Yallah NSW, Aboriginal Cultural Heritage Assessment – Draft ACHAR and AR Our Ref: Matter 24090

Following your registration for the Northern and Central Precincts at Tallawarra, Yallah NSW, Aboriginal Cultural Heritage Assessment, enclosed are copies of the draft Aboriginal Cultural Heritage Assessment Reports (ACHAR) and Archaeological Reports (AR) for the project following the completion of the archaeological survey, for your review. Once comments have been received by Registered Aboriginal Parties (RAPs), the comments will be incorporated into a final report which will then be issued to all RAPs for their records.

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Yours sincerely,

Taryn Gooley Consultant Archaeologist

Biosis Pty Ltd
Newcastle Resource Group

Suite 8, 27 Annie Street Wickham NSW 2293 Phone: 02 4911 4040

ACN 006 175 097 ABN 65 006 175 097 Email:



Nathanial Kennedy Warra Bingi Nunda Gurri Warra Bingi Nunda Gurri Indigenous Sites Conservation 45 Rosemont St West Wollongong NSW 2500

Dear Nathanial Kennedy,

RE: Northern and Central Precincts at Tallawarra, Yallah NSW, Aboriginal Cultural Heritage Assessment – Draft ACHAR and AR Our Ref: Matter 24090

Following your registration for the Northern and Central Precincts at Tallawarra, Yallah NSW, Aboriginal Cultural Heritage Assessment, enclosed are copies of the draft Aboriginal Cultural Heritage Assessment Reports (ACHAR) and Archaeological Reports (AR) for the project following the completion of the archaeological survey, for your review. Once comments have been received by Registered Aboriginal Parties (RAPs), the comments will be incorporated into a final report which will then be issued to all RAPs for their records.

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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.

Yours sincerely,

Taryn Gooley Consultant Archaeologist

Biosis Pty Ltd Newcastle Resource Group

Suite 8, 27 Annie Street Wickham NSW 2293 Phone: 02 4911 4040

ACN 006 175 097 ABN 65 006 175 097 En



Kayla Williamson Woronora Plateau Gundangara Elders Council 11 Garnett Grove FLINDERS NSW 2529

Dear Kayla Williamson,

RE: Northern and Central Precincts at Tallawarra, Yallah NSW, Aboriginal Cultural Heritage Assessment – Draft ACHAR and AR Our Ref: Matter 24090

Following your registration for the Northern and Central Precincts at Tallawarra, Yallah NSW, Aboriginal Cultural Heritage Assessment, enclosed are copies of the draft Aboriginal Cultural Heritage Assessment Reports (ACHAR) and Archaeological Reports (AR) for the project following the completion of the archaeological survey, for your review. Once comments have been received by Registered Aboriginal Parties (RAPs), the comments will be incorporated into a final report which will then be issued to all RAPs for their records.

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Yours sincerely,

Taryn Gooley Consultant Archaeologist

Biosis Pty Ltd
Newcastle Resource Group

Suite 8, 27 Annie Street Wickham NSW 2293 Phone: 02 4911 4040

ACN 006 175 097 ABN 65 006 175 097 En


1 November 2017

James Davis 2 Poplar Avenue Unanderra NSW 2526

Dear James Davis,

RE: Northern and Central Precincts at Tallawarra, Yallah NSW, Aboriginal Cultural Heritage Assessment - Draft ACHAR and AR

Our Ref: Matter 24090

Following your registration for the Northern and Central Precincts at Tallawarra, Yallah NSW, Aboriginal Cultural Heritage Assessment, enclosed are copies of the draft Aboriginal Cultural Heritage Assessment Reports (ACHAR) and Archaeological Reports (AR) for the project following the completion of the archaeological survey, for your review. Once comments have been received by Registered Aboriginal Parties (RAPs), the comments will be incorporated into a final report which will then be issued to all RAPs for their records.

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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.

Yours sincerely,

Taryn Gooley **Consultant Archaeologist**

Biosis Pty Ltd Newcastle Resource Group Hi Charlotte,

Thanks for the email an just read what was sent an I'm happy to provide what ever is needed as we no their is a lot of significant areas within that area specially with the creeks an plains...thanks an look forward on working with you guys soon...

Kind regards Leonard Wright

Get Outlook for iOS

From: Charlotte Allen
Sent: Thursday, November 2, 2017 8:56:28 AM
To: 'lbjwright1977@hotmail.com'
Subject: 24090 - Northern and Central Precincts at Tallawarra, Yallah NSW, Aboriginal Cultural Heritage Assessment
Good morning,

Following your registration for the Northern and Central Precincts at Tallawarra, Yallah NSW, Aboriginal Cultural Heritage Assessment, we would like to provide you with copies of the draft Aboriginal Cultural Heritage Assessment Reports (ACHAR) and Archaeological Reports (AR) for the project following the completion of the archaeological survey, for your review and feedback. Due to the size of the files we are unable to send these by email, but they can downloaded from the following webpage: https://spaces.hightail.com/receive/C0dncRIRNu.

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Please do not hesitate to contact Taryn Gooley, Consultant Archaeologist, if you require additional information or have any queries about the methodology or information provided.

Kind regards, Charlotte

Charlotte Allen Research Assistant - Heritage M: 0437 641 267 D: (02) 9101 8712 E: <u>callen@biosis.com.au</u>

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	?	
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From:	Richard Campbell
To:	Charlotte Allen
Subject:	RE: 24090 - Northern and Central Precincts at Tallawarra, Yallah NSW, Aboriginal Cultural Heritage Assessment
Date:	Monday, 6 November 2017 8:28:30 AM
Attachments:	image0581cb.PNG

Hi charlotte I Richard Campbell if Guunamaa Dream'n have no issues regarding the following project just to include aboriginal REPRESENTATIVES from ILAWARRA ONLY there are to many from HIKA TE-ORFIE and this is very hard on the locals as he has 31 groups in total we should be only taking one group from each organisation that is my only concern for this King Regards Richard campbell Guunamaa Dream'n Sent from my Windows 10 phone

From: Charlotte Allen

Sent: Thursday, 2 November 2017 8:58 AM To: <u>'richardcampbell123@outlook.com'</u>

Subject: 24090 - Northern and Central Precincts at Tallawarra, Yallah NSW, Aboriginal Cultural Heritage Assessment **Good morning**,

Following your registration for the Northern and Central Precincts at Tallawarra, Yallah NSW, Aboriginal Cultural Heritage Assessment, we would like to provide you with copies of the draft Aboriginal Cultural Heritage Assessment Reports (ACHAR) and Archaeological Reports (AR) for the project following the completion of the archaeological survey, for your review and feedback. Due to the size of the files we are unable to send these by email, but they can downloaded from the following webpage: https://spaces.hightail.com/receive/C0dncRIRNu.

Once comments have been received by Registered Aboriginal Parties (RAPs), the comments will be incorporated into a final report which will then be issued to all RAPs for their records.

If you would like further information, please do not hesitate to contact us. It would be appreciated if you would provide feedback on the reports to Biosis Pty Ltd by 4pm Thursday 30 November 2017 either by email, return mail or a phone call.

Please address feedback on the reports to: Taryn Gooley Consultant Archaeologist 8 Tate Street Wollongong, NSW 2500 (02) 4201 1090 tgooley@biosis.com.au

Please do not hesitate to contact Taryn Gooley, Consultant Archaeologist, if you require additional information or have any queries about the methodology or information provided.

Kind regards, Charlotte

Charlotte Allen Research Assistant - Heritage M: 0437 641 267 D: (02) 9101 8712 E: <u>callen@biosis.com.au</u>

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From:	Murramarang
To:	<u>Charlotte Allen; Taryn Gooley</u>
Subject:	Re: 24090 - Northern and Central Precincts at Tallawarra, Yallah NSW, Aboriginal Cultural Heritage Assessment
Date:	Tuesday, 28 November 2017 10:34:50 PM
Attachments:	image3ad21a.PNG

Hi Taryn

This is Murramarangs support for the Draft ACHA and AR report for the above project.

On Thu, Nov 2, 2017 at 8:56 AM, Charlotte Allen <<u>callen@biosis.com.au</u>> wrote:

Good morning,

Following your registration for the Northern and Central Precincts at Tallawarra, Yallah NSW, Aboriginal Cultural Heritage Assessment, we would like to provide you with copies of the draft Aboriginal Cultural Heritage Assessment Reports (ACHAR) and Archaeological Reports (AR) for the project following the completion of the archaeological survey, for your review and feedback. Due to the size of the files we are unable to send these by email, but they can downloaded from the following webpage: https://spaces.hightail.com/receive/CodncRIRNu.

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Kind regards, Charlotte

Charlotte Allen Research Assistant - Heritage M: 0437 641 267 D: (02) 9101 8712 E: callen@biosis.com.au Biosis Logo

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--Kind Regards Roxanne Smith Cultural Heritage Officer Murramarang

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From:	Cullendulla
To:	<u>Charlotte Allen; Taryn Gooley</u>
Subject:	Re: 24090 - Northern and Central Precincts at Tallawarra, Yallah NSW, Aboriginal Cultural Heritage Assessment
Date:	Tuesday, 28 November 2017 10:36:28 PM
Attachments:	image024139.PNG

Hi Taryn

Cullendulla support the attached Draft ACHA and AR report for the above project

On Thu, Nov 2, 2017 at 8:56 AM, Charlotte Allen <<u>callen@biosis.com.au</u>> wrote:

Good morning,

Following your registration for the Northern and Central Precincts at Tallawarra, Yallah NSW, Aboriginal Cultural Heritage Assessment, we would like to provide you with copies of the draft Aboriginal Cultural Heritage Assessment Reports (ACHAR) and Archaeological Reports (AR) for the project following the completion of the archaeological survey, for your review and feedback. Due to the size of the files we are unable to send these by email, but they can downloaded from the following webpage: https://spaces.hightail.com/receive/C0dncRIRNu.

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Please do not hesitate to contact Taryn Gooley, Consultant Archaeologist, if you require additional information or have any queries about the methodology or information provided.

Kind regards, Charlotte

Charlotte Allen Research Assistant - Heritage M: 0437 641 267 D: (02) 9101 8712 E: callen@biosis.com.au Biosis Logo

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--Kind Regards Corey Smith Cultural Heritage Officer Cullendulla

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From:	Biamanga
To:	Charlotte Allen; Taryn Gooley
Subject:	Re: 24090 - Northern and Central Precincts at Tallawarra, Yallah NSW, Aboriginal Cultural Heritage Assessment
Date:	Tuesday, 28 November 2017 10:38:24 PM
Attachments:	imagec4dd8c.PNG

Hi Taryn

Biamanga support the draft Aboriginal Cultural Heritage assessment Reports and Archaeological Reports for the above project.

On Thu, Nov 2, 2017 at 8:56 AM, Charlotte Allen <<u>callen@biosis.com.au</u>> wrote:

Good morning,

Following your registration for the Northern and Central Precincts at Tallawarra, Yallah NSW, Aboriginal Cultural Heritage Assessment, we would like to provide you with copies of the draft Aboriginal Cultural Heritage Assessment Reports (ACHAR) and Archaeological Reports (AR) for the project following the completion of the archaeological survey, for your review and feedback. Due to the size of the files we are unable to send these by email, but they can downloaded from the following webpage: https://spaces.hightail.com/receive/CodncRIRNu.

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If you would like further information, please do not hesitate to contact us. It would be appreciated if you would provide feedback on the reports to Biosis Pty Ltd by 4pm Thursday 30 November 2017 either by email, return mail or a phone call.

Please address feedback on the reports to: Taryn Gooley Consultant Archaeologist 8 Tate Street Wollongong, NSW 2500 (02) 4201 1090 tgooley@biosis.com.au

Please do not hesitate to contact Taryn Gooley, Consultant Archaeologist, if you require additional information or have any queries about the methodology or information provided.

Kind regards, Charlotte

Charlotte Allen Research Assistant - Heritage M: 0437 641 267 D: (02) 9101 8712 E: <u>callen@biosis.com.au</u> Biosis Logo

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--Kind Regards Seli Storer Chief Executive Officer Biamanga

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Hi Taryn

Goobah support the draft Aboriginal Cultural Heritage assessment Reports and Archaeological Reports for the above project.

We wish to be kept informed of any further developments and all correspondence should be sent to this email address thankyou.

--Regards Basil Smith Chief Executive Officer Goobah PH 0405995725

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Duncan Falk Consultancy

Duncan Falk Manager T +61 406 610 644 E: duncanfalk@hotmail.com

29 November 2017

Biosis c/o Taryn Gooley

Via e-mail: tgooley@biosis.com.au

RE: Northern and Central Precincts at Tallawarra, Yallah NSW, ACHA

Dear Taryn,

The AR and ACHA for central and northern precincts are fully endorsed by Duncan Falk Consultancy (DFC), the recommendations in the ACHA and AR for northern and central precincts are strongly agreed with and it is also recommended that any artefacts that are found are reburied in an agreed location where they will not be impacted upon in the future.

DFC also holds evidence backing up the true language boundaries, Dharawal did range from the Illawarra to Bong Bong now know as the Southern Highlands and surrounding areas. This evidence will be provided at request.

Kind Regards

Duncan

Puncon Falle

Duncan Falk Consultancy ABN 67 461 505 305



Appendix 5 Archaeological report



Tallawarra Central Precinct: Archaeological Report

FINAL REPORT Prepared for Cardno 26 September 2017



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Prepared by:	Mathew Smith Samantha Keats	
Biosis project no.:	24090	
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Wollongong

LGA:

Document control

Version	Internal reviewer	Date issued	Issued by
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Final 01	Amanda Atkinson	30/08/2017	Biosis

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Acknowledgements

Biosis gratefully acknowledges the contributions of the following people and organisations in preparing this report:

Registered Aboriginal Parties

- Illawarra Local Aboriginal Land Council
 (ILALC)
- Warra Bingi Nunda Gurri
- Woronora Plateau Gundangara Elders Council
- Darug Land Observations
- Three Ducks Dreaming Surveying and Consulting
- The Wadi Wadi Coomaditchie Aboriginal Corporation

Government Departments

- Office of Environement and Heritage (OEH)
- National Native Title Tribunal (NNTT)
- Wollongong City Council (WCC)
- Local Land Services (LLS)
- Office of the Registrar Aboriginal Land Rights Act

Client

• Daniel Thompson and Adam Clarke - Cardno

Biosis

- Alexander Beben for assistance in the field
- Sonika Kumar and Lauren Harley for mapping

- Guunamaa Dreaming and Sites Surveying
- James Davis
- Goobah Development Pty Ltd (Murrin Clan/Peoples)
- Murramarang (Murrin Clan/Peoples
- Minnamunnung
- Duncan Falk Consultancy
- Cullendulla (Murrin Clan/Peoples)
- Biamanga (Murrin Clan/Peoples)



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Glossary

ACHAR	Aboriginal Cultural Heritage Assessment Report
AHIMS	Aboriginal Heritage Information Management System
Consultation requirements	Aboriginal cultural heritage consultation requirements for proponents 2010 (DECCW 2010b)
DA	Determining application
DECCW	Department of Environment, Climate Change and Water (now OEH)
DP	Deposited Plan
EPA	Environment Planning and Assessment
GDA	Geocentric Datum of Australia
GPS	Global Positioning System
GSV	Ground Surface Visibility
LALC	Local Aboriginal Land Council
LEP	Local Environmental Plan
LGA	Local Government Area
MGA	Map Grid of Australia
NPW Act	National Parks and Wildlife Act
NPWS	National Parks and Wildlife Service
NSW	New South Wales
NTSCORP	Native Title Services Corporation
OEH	NSW Office of Environment and Heritage
PAD	Potential Archaeological Deposit
Study area	Defined as lot 15 DP 1050255, lot 1 DP 1146409, lot 102 DP 716727, lot 1 DP 551658, lot 1 DP 543285, lot 7 DP 1049520 and lot 8 DP 1049520
RAP	Registered Aboriginal Party
REF	Review of Environmental Factors
REP	Regional Environmental Plan
SEPP	State Environmental Planning Policy
The code	Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW (DECCW 2010a)



Summary

Biosis Pty Ltd was commissioned by Cardno on behalf of Bridgehill Group to undertake an Aboriginal cultural heritage assessment (ACHA) and Archaeological Report (AR) (this report) of a proposed residential development at Tallawarra, Yallah NSW (Central Precinct).

Bridgehill Group have acquired some of the Tallawarra Lands in the Northern and Central Precincts from Energy Australia, and intend to develop new residential communities, a light industrial development, and tourism facilities on those lands. The original concept approval (MP09_0131) was granted on 23 May 2013 by the Planning Assessment Commission as a delegate for the Minister for Planning and Infrastructure for a mixed use development including residential, commercial, industrial and retail development, public open space areas, new recreational facilities, environmental management, conservation areas and riparian corridors at Tallawarra Lands, Yallah.

Bridgehill Group, intends to modify the existing concept approval for the Central Precinct at Tallawarra, Yallah (MP 09_0131 MOD 1) under Part 75W of the *Environmental Planning and Assessment Act 1979*.

This AR covers the Central Precinct (the study area), and aims to determine whether the proposed modification will have any additional impacts on Aboriginal cultural values. The purpose of this assessment is to support an EIS application to modify the existing concept approval for the Central Precinct (MP 09_0131 MOD 1) to allow an increased residential lot yield.

The study area is located in lot 15 DP 1050255, lot 1 DP 1146409, lot 102 DP 716727, lot 1 DP 551658, lot 1 DP 543285, lot 7 DP 1049520 and lot 8 DP 1049520 (Figure 1and Figure 2). It is approximately 14 kilometres south west of the Wollongong central business district (CBD).

This report has responded to Section 6.10.1 Aboriginal Cultural Heritage of the *Tallawarra Lands, Yallah: Request for Secretary's Environmental Assessment Requirements* (Urbis 2016) to:

- Confirm the location of archaeological sites relative to the proposed expanded areas.
- Consultation with relevant stakeholders will be carried out prior to preparation of the EIS.
- Identifying the nature and extent of impacts on Aboriginal and cultural heritage values across the project area; and
- Provide the actions that will be taken to avoid or mitigate impacts or compensate to prevent unavoidable or mitigate impacts of the project or Aboriginal cultural heritage values.

SEARs Item	Response
12. Aboriginal Cultural Heritage	This report has been conducted in accordance with the <i>Guide to Investigating Assessing and Reporting on Aboriginal Cultural Heritage in NSW</i> (OEH 2011).
Aboriginal Cultural Heritage Assessment in accordance with the Guide to investigating Assessing and Reporting on Aboriginal Cultural Heritage in NSW (DECCW 2011) and Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010 (DECCW)	This report supports the Aboriginal cultural heritage assessment, which has been conducted in accordance with the <i>Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010</i> (DECCW 2010a). Consultation with Registered Aboriginal Parties is currently underway.



There are 86 Aboriginal cultural heritage sites registered with the Aboriginal Heritage Information Management System (AHIMS) register in the vicinity of the study area, four of which are located within the study area; TLPD AFT 7 (AHIMS 52-5-0613), TLPD AFT 8 (AHIMS 52-5-0614), TLPD AFT 9 (AHIMS 52-5-0615), and Tallawarra Pipeline PAD 3 (AHIMS 52-5-0523).

The survey was conducted on 29 June 2017. 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 combined with a low amount of exposures.

No previously unrecorded Aboriginal cultural heritage sites were identified during the field survey.

Based on the site survey and previous assessments the drainage line that runs through the study area and into Ducks Creek was assessed as having high archaeological potential to contain further subsurface cultural deposits, as their proximity to useful resources and fresh water made them valuable occupation areas. The ridgeline in the study area was assessed as having moderate potential as previous research had determined that the landform is likely to contain low density or isolated artefacts that were discarded as Aboriginal people travelled along them.

This assessment has concluded that impacts to site Tallawarra Pipeline PAD 3 (AHIMS 52-5-0523) cannot be avoided by the proposed development. The proposed modification will therefore have an additional impact on Aboriginal cultural heritage.

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:
 - 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: Further archaeological assessment is required in areas of moderate and high archaeological potential

Areas identified as having high and moderate archaeological potential should be avoided wherever possible (Figure 10). If impact to these areas cannot be avoided subsurface investigations (test excavations) will be required prior to the commencement of works as a condition of the DA or concept approval. Test excavations should be conducted in accordance with the *Code of Practice for archaeological investigation for Aboriginal objects in NSW* (DECCW 2010b) and *Aboriginal cultural heritage consultation requirements for proponents in New South Wales* (DECCW 2010a).



Recommendation 2: Further archaeological assessment is required at Tallawarra Pipeline PAD 3 (AHIMS 52-5-0523)

If impacts to Tallawarra Pipeline PAD 3 (AHIMS 52-5-0523) cannot be avoided, subsurface investigations (test excavations) will be required prior to the commencement of works as a condition of the DA or concept approval. Test excavations should be conducted in accordance with the *Code of Practice for archaeological investigation for Aboriginal objects in NSW* (DECCW 2010b) and *Aboriginal cultural heritage consultation requirements for proponents in New South Wales* (DECCW 2010a).

Recommendation 3: Conservation of Fig Tree associated with TLPD AFT 9 (AHIMS 52-5-0615)

If possible the Fig Tree associated with TLPD AFT 9 (AHIMS 52-5-0615) should be conserved and incorporated into the modification of the concept approval.

Recommendation 4: No further archaeological assessment is required in areas of low archaeological potential

No further archaeological work is required in areas identified as having low archaeological potential except in the event that unexpected Aboriginal sites, objects or human remains are unearthed during development (refer to Recommendations 8 and 9 below).

Recommendation 5: Fencing of AHIMS sites

AHIMS sites or PAD areas located within 30 metres of the area of proposed works should be clearly marked and fenced in order to avoid unintentional impacts during construction.

Recommendation 6: Aboriginal cultural heritage induction for workers and contractors

The locations of each AHIMS site and PAD area located within the Tallawarra Lands development should be clearly mapped. Workers and contactors working at, or visiting the site should be made aware of the location of all AHIMS sites and PAD areas within the Tallawarra Lands development through an Aboriginal cultural heritage induction.

Recommendation 7: Application for an Aboriginal heritage impact permit (AHIP)

Should the Development Application (DA) be approved, it is recommended that Cardno apply to OEH for an AHIP to destroy the listed Aboriginal sites within the study area which are currently protected under the NSW *National Parks and Wildlife Act 1974*. **The AHIP should be for a term of ten (10) years.** The sites that will be impacted by the proposed works are as follows

- TLPD AFT 7 (AHIMS 52-5-0613)
- TLPD AFT 8 (AHIMS 52-5-0614)
- TLPD AFT 9 (AHIMS 52-5-0615)
- Tallawarra Pipeline PAD 3 (AHIMS 52-5-0523

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 Office of Environment and Heritage (OEH) 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 OEH. 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 OEH for the processing of AHIPs, which is dependent on the estimated total cost of the development project.

Recommendation 7: Discovery of Unanticipated Aboriginal Objects

All Aboriginal objects and Places are protected under the *NSW National Parks and Wildlife Act 1974*. It is an offence to knowingly disturb an Aboriginal site without a consent permit issued by the Office of Environment and Heritage (OEH). Should any Aboriginal objects be encountered during works associated with this proposal, works must cease in the vicinity and the find should not be moved until assessed by a qualified archaeologist. If the find is determined to be an Aboriginal object, the archaeologist will provide further recommendations. These may include notifying the OEH and Aboriginal stakeholders.

Recommendation 9: 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 OEH'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 to the OEH.

Recommendation 10: Continued consultation with the registered Aboriginal stakeholders

As per the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010a), it is recommended that the proponent provides a copy of this report to the Aboriginal stakeholders and considers all comments received. The proponent should continue to inform these groups about the management of Aboriginal cultural heritage sites within the study area throughout the life of the project.



1 Introduction

1.1 Project background

Biosis Pty Ltd was commissioned by Cardno to undertake an Aboriginal cultural heritage assessment of a proposed residential development of the Tallawarra Central Precinct, Yallah NSW. This assessment will support an application to modify the existing concept approval for the Central Precinct (MP 09_0131 MOD 1) to allow an increased residential lot yield.

The original concept approval (MP09_0131) was granted on 23 May 2013 by the Planning Assessment Commission as a delegate for the Minister for Planning and Infrastructure for a mixed use development including residential, commercial, industrial and retail development, public open space areas, new recreational facilities, environmental management, conservation areas and riparian corridors at Tallawarra Lands, Yallah.

A previous Aboriginal archaeological assessment for the Tallawarra Lands Part 3A Concept Plan (MP 09_0131) was conducted by Biosis in 2010. The previous assessment consisted of an Aboriginal archaeological survey, Aboriginal community consultation, and Aboriginal archaeological test excavations (Biosis 2010). An impact assessment conducted as part of the 2010 assessment concluded that three Aboriginal archaeological sites TLPD AFT-7 (AHIMS 52-5-0613), TLPD AFT-8 (AHIMS 52-5-0614), and TLPD AFT-9 (AHIMS 52-5-0615), along with a Fig Tree identified as having cultural significance; would be impacted on by the proposed development. Site Tallawara Pipeline PAD3 (AHIMS 52-5-0523) is also located within the study area however the previous assessment determined that it would not be impacted on.

All AHIMS sites located within the study area were assessed as having high cultural significance. TLPD AFT-7 (AHIMS 52-5-0613), TLPD AFT-8 (AHIMS 52-5-0614), and TLPD AFT-9 (AHIMS 52-5-0615) were assessed as having low archaeological significance, while Tallawara Pipeline PAD3 (AHIMS 52-5-0523) was determined to have unknown archaeological significance.

The majority of the Central Precinct study area was assessed as having moderate subsurface archaeological potential, with the northern section of the study area assessed as having low subsurface archaeological potential based on the results of the archaeological test excavations, and predictive modelling. The area along the first order tributary to Ducks Creek, located within the centre of the study area was assessed as having high subsurface archaeological potential. Further assessment in the form of additional archaeological test excavations in areas of high and moderate subsurface archaeological potential were recommended prior to development in order to establish the significance and extent of the archaeological resource.

The purpose of this assessment is to determine if the proposed modification will impact on any additional areas of archaeological potential or Aboriginal sites or objects; in particular Tallawara Pipeline PAD3 (AHIMS 52-5-0523). This investigation has been carried out under Part 6 of the *National Parks and Wildlife Act 1974* (NPW Act). It has been undertaken in accordance with the *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales* (DECCW 2010b) ('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.



1.2 Study area

The study area is located within the Tallawarra Central Precinct, Yallah NSW (Figure 1). It encompasses lot 15 DP 1050255, lot 1 DP 1146409, lot 102 DP 716727, lot 1 DP 551658, lot 1 DP 543285, lot 7 DP 1049520 and lot 8 DP 1049520 and is approximately 14 kilometres south west of Wollongong central business district (CBD) (Figure 2). The Central Precinct area covers 73.2 hectares of private access land.

The study area is within the:

- Wollongong Local Government Area (LGA).
- Parish of Calderwood
- County of Camden

The study area is bounded by Yallah Bay Road to the south, Princes Motorway to the west the suburb of Dapto to the north, and rural land to the east (Figure 2).

1.3 Planning approvals

The proposed modification will be assessed against under Part 3A section 75W of the *Environmental Planning and Assessment Act 1979* NSW (EP&A Act). Other relevant legislation and planning instruments that will inform this assessment include:

- Commonwealth Environmental Protection and Biodiversity Conservation Act 1999.
- NSW National Parks and Wildlife Act 1974 (NPW Act).
- NSW National Parks and Wildlife Amendment Act 2010.
- Infrastructure State Environmental Planning Policy 2007.
- Wollongong Development Control Plan 2009.

1.4 Objectives of the investigation

The objectives of the investigation can be summarised as follows:

- Confirm the location of archaeological sites (particularly Tallawara Pipeline PAD3 (AHIMS 52-5-0523) relative to the proposed expanded areas.
- Consult with relevant Aboriginal stakeholders.
- 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 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.

Name and qualifications	Experience summary	Project role
Taryn Gooley BA /Sci (Hons) Archaeology	Taryn is a consultant archaeologist with seven years of experience across south eastern NSW and Western Australia. Taryn has a particular interest in Aboriginal archaeology of North Western NSW, and the Hunter Valley and Newcastle regions. Taryn has experience in the successful completion of Aboriginal Cultural Heritage assessments, archaeological surveys, test excavations, and salvage excavations, as well as Aboriginal community consultation. She is also accomplished in obtaining approvals under the NSW National Parks and Wildlife Act 1974 and NSW Heritage Act 1977.	• Project Manager
Mathew Smith BA/BSc (Hons) Archaeology	Mathew is a field archaeologist with Biosis Wollongong office. Mathew has over one year of experience as an archaeologist, and specialises in lithics analysis. In addition to this, Mathew has well developed skills in archaeological survey and test excavation, as well as Aboriginal community consultation and background research.	 Background research Aboriginal groups consultation Report writing
Samantha Keats BA	Samantha is a field archaeologist with Biosis Wollongong office. Samantha has over one year of 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 has authored several Statement of Heritage Impact reports and Heritage Assessments.	Report writing

Table 1 Investigators and contributors



Name and qualifications	Experience summary	Project role
Ashleigh Pritchard Dip. GIS.	Ashleigh has eight years' experience in the field of mapping and has contributed to over 600 consultant reports in both the Natural and Cultural heritage teams across NSW, Victoria and Queensland for a diverse range of clients. Ashleigh has utilised the functionality of GIS to undertake spatial analysis projects such as calculations of habitat loss as well as geo-referencing and digitising. She has extensive experience in spatial data management and map production for large, ongoing impact monitoring projects in NSW. More recently Ashleigh has used spatial modelling to detect cliff lines with potential to support Aboriginal shelter sites and areas of upland swamp potential in the Sydney Catchment Authority special areas using LiDAR data.	• GIS/Mapping
Alexander Beben Principal Archaeologist BA (Hons), MA	Alexander is Biosis' Principal Archaeologist with 12 years' experience in NSW. Alexander has a detailed knowledge the Aboriginal and non-Aboriginal heritage requirements of the <i>Environmental Planning & Assessment Act 1979, NSW</i> <i>Heritage Act 1977</i> and <i>NSW Parks and Wildlife Act</i> <i>1974.</i> Alexander is experienced in undertaking Aboriginal and non-Aboriginal heritage projects, especially archaeological investigation of known or potential archaeological deposits and implementing EIS approval requirements relating to the salvage of known sites. Alex has authored in excess of 150 heritage reports including heritage assessments, archaeological reports, AHIP applications, salvage reports and management plans. Alexander is adept at undertaking consultation with Aboriginal stakeholders, particularly coordinating their involvement in archaeological surveys and excavations Recently, Alex has focused on non-Aboriginal heritage projects and approvals and has managed some of the largest heritage projects in NSW, including an impressive portfolio of Roads and Maritime projects.	Quality assurance







2 Proposed development

The Tallawarra Central Precinct comprises lot 15 DP 1050255, lot 1 DP 1146409, lot 102 DP 716727, lot 1 DP 551658, lot 1 DP 543285, lot 7 DP 1049520 and lot 8 DP 1049520, with an area of 73.2 hectares (Figure 3). The development of the Central Precinct will comprise commercial, retail, industrial, open space and associated civil works. The modification to the concept approval seeks to increase the footprint and residential yield for the Central Precinct from 350 lots to 588 lots. Currently approved components of the concept plan for the Central Precinct include:

- Approximately 340 residential lots (27 hectares) and 10 large residential lots (11 hectares) to be modified to 588 residential lots.
- A Neighbourhood Centre (4.25 hectares), incorporating a small supermarket, speciality shops, medical centre and child-care centre
- A tourism (2.5 hectares) use on the Lake foreshore headland at the eastern end of the precinct
- An open space, incorporating the residential sports ground and Duck Creek riparian lands (109 hectares environmental and recreational)
- Industrial and light industrial uses (54 hectares)

The following amendments are proposed to the Concept Plan for the Central Precinct:

- Expand the R2 Zone (for low density residential development) east, into the E3 Environmental Management zone.
- Expand the R2 zone (for low density residential) north into the R5 (large lot residential) zone.
- Minor alterations to R2 zone (for low density residential development) into E3 Environmental Management Zone.
- The composition of lots has been altered from the Concept Plan, with a new indicative layout that includes lots down to 300m² and 12.5 metres frontages, where suited to the topography of the site.





3 Desktop assessment

The desktop assessment involves researching and reviewing existing archaeological studies and reports relevant to the study area and Lake Illawarra 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 of Practice for the Archaeological Investigation of Aboriginal Objects in New South Wales* (DECCW 2010b).

3.1 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.

3.1.1 Geology, Topography and hydrology

The Illawarra region forms part of the Sydney Basin; a geological basin filled with near horizontal sandstones and shales of Permian to Triassic age overlying older basement rocks of the Lachlan Fold Belt. The Illawarra subregion of the Sydney Basin is characterised by Permian siltstones, shale, sandstones and interbedded volcanics on and below the coastal escarpment. The geology of the region provides useful stone resources for toolmaking, including volcanic rocks useful for the manufacture of edge ground axes (Figure 4).

The study area is situated on the Coastal Plain on the edge of Lake Illawarra and the Escarpment (Figure 6). This physiographic unit has formed from the gradual recession westward of the Plateau (Bowman 1971). The Coastal Plain is characterised as a mosaic of foothills, ridges, spurs, hillocks and floodplains with slopes varying from very gently inclined to steep with the occasional low cliff. It is dissected by easterly flowing streams at intervals that become more frequent towards the north (Fuller 1982: 18). The Coastal Plain is widest at the points where the Macquarie Rivulet has entrenched into the Plateau at Macquarie Pass and where other waterways that provide the catchment area of Lake Illawarra carved into the Escarpment (Bowman 1971).

The Central Precinct is located approximately 750 metres inland from the shore of Lake Illawarra. Lake Illawarra was formed from the drowning of the Macquarie Rivulet valley during the raising of Holocene sea levels (6-7,000 years ago); the estuary was subsequently formed behind the large sand barrier that now forms the Windang Peninsula. Lake Illawarra is the largest estuarine lagoon on the south coast of NSW, covering an area of 33 square kilometres and extending over 9 kilometres in length and 5 kilometres in width. It receives salt water from the Pacific Ocean and fresh water from the Illawarra Escarpment (Roy 1984). Lake Illawarra is classified as an early Intermediate Barrier Estuary or an estuarine lagoon. Barrier estuaries are characterised by 'narrow elongated entrance channels with broad tidal and back barrier sand flats' (Roy 1984: 5).

One water stream also passes through the study area. This stream is a non-perennial tributary of Ducks Creek, and so would not have contained water all year round.

Lake Illawarra, Duck Creek, and the first order creek running through the study area would have provided abundant food resources to Aboriginal groups in the area. It is likely that the proximity to water and food will have resulted in the presence of Aboriginal sites, such as middens, in the vicinity of the study area.





3.1.2 Soil landscapes

Soil landscapes have distinct morphological and topological characteristics that result in specific archaeological potential. Because 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. The study area contains one erosional soil landscape called the Shellharbour soil landscape, one residual landscape called the Gwynneville soil landscape, and one swamp soil landscape called the Fairy Meadow soil landscape (Figure 5).

Erosional soil landscapes comprise soils that are derived from the erosive action of running water, primarily well-defined streams that have the ability to transport their sediment load. Soils may be either absent, derived from water-washed parent materials, or derived from *in situ* weathered bedrock. Residual soil landscapes are characterised by areas where soils are derived from the long-term, *in situ* weathering of parent materials. Examples of these types of soil landscapes are typically level to undulating elevated landforms, flats and plains, with poorly defined drainage lines. Swamp soil landscapes are dominated by ground surfaces and soils that are at least seasonally wet, with water tables frequently close to the surface. Soil parent material includes large amounts of accumulated decayed organic matter.

The characteristics of the Shellharbour soil landscape are summarised in Table 2.

Soil Landscape	Topography	Soils
Shellharbour	Rolling low hills with long side slopes and broad drainage lines. Relief 30-50 metres. Slopes <20% incline.	Crests and upper slopes: Hard setting black rich clays overlying <100 cm of brown strongly pedal heavy clay. Mid slopes: Up to 20 cm of brownish black sandy loam overlies <50 cm of strongly pedal reddish brown sandy clay. 50 cm of mottled reddish brown sandy clay overlies <50 cm of brown strongly pedal heavy clay. Foot slopes and drainage plains: Up to 40 cm of reddish brown sandy clay overlies >50 cm of strongly pedal brown heavy clay.

Table 2 Shellharbour soil landscape characteristics (Hazelton 1992: 58-60)

The Shellharbour soil landscape has a high to very high erodibility rating and would therefore be susceptible to frequent soil movement (Hazelton 1992: 58-60). This would result in poor preservation of archaeological material at shallow depths but would potentially lead to exposures of any deeper archaeological deposits were topsoil has eroded away.

The Gwynneville soil landscape has the following characteristics (Table 3):

Table 3 Gwynneville soil landscape characteristics (Hazelton and Tille 1990: 38-40)

Soil Landscape	Topography	Soils
Gwynneville	Undulating to steep hills with broad to moderate ridges, steeply inclined foot slopes, and isolated rises on the coastal plain. Local relief from 10-70 m, slopes 3- 25%.	Ridges: 10-30 cm of friable brown loam overlying bedrock. Upper and mid slopes: 10-30 cm of friable brown loam overlies 100 cm brown pedal clay. Lower slopes and localised position on mid


Soil Landscape	Topography	Soils
		slopes: 20-50 centimetres of brown pedal clay overlies brown pedal clay or bedrock.

The Gwynneville soil landscapes has a moderate soil erodability and would be susceptible to some soil movement as a result. The erodability combined with the shallow loam soils suggests that the preservation of archaeological material is likely to be poor throughout the study area.

The Fairy meadow soil landscape has the following characteristics (Table 4):

 Table 4
 Fairy meadow soil landscape characteristics (Hazelton and Tille 1990, pp. 100-102)

Soil Landscape	Topography	Soils
Fairy Meadow	Gently undulating alluvial plains including floodplains, valley flats, and terraces. Slopes greater than 5% and relief greater than 20 m.	Upper floodplains and terraces: Up to 20 cm of sandy loam overlying up to 40 cm of sand. Valley flats: Soils are highly variable but a typical soil consists of up to 40 cm of sandy clay loam overlying 50 cm of light clay and 80 cm of heavy clay.

The Fairy meadow soil landscape has a low soil erodability and would therefore preserve any potential subsurface deposits present; however it is susceptible to flooding and seasonal waterlogging so sites are likely to be present only on raised landforms in this soil landscape (Hazelton and Tille 1990: 100-102).





Crest	
Drainage lir	1



3.1.3 Landscape resources

The Coastal Plain of the Illawarra region provides a number of resources used by Aboriginal inhabitants. The geology of the region provides an abundant supply of raw materials. Quartz is the main stone raw-material type suitable for Aboriginal tool manufacture that is likely to occur in the vicinity of the study area in any abundance. This would have been available locally and also from trading with other groups (Donlon and Sefton 1988: 23). Igneous material would have come from the south of the study area in areas like Gerringong (Donlon and Sefton 1988: 55) due to its volcanic nature. Some of the other fined grain siliceous material may have come from the Cumberland Plain. Silcrete cobbles are known to have occurred along the Cumberland Plain (McDonald 1992), to the north of the study area. Elsewhere on the Plain, the potential raw materials for stone artefact making include silicified wood, tuff, mudstone, quartz, quartzite and basalt. River gravels and cobbles containing silcrete, chert, and other fine grained volcanic rocks were also used (Attenbrow 2010). While previous archaeological work within the region has not identified any specific stone sources, the presence of the volcanic Dapto Latite Member in the region may have provided a suitable source of raw material, providing lithic material for stone axes. Resources would have been accessible in the outcrops of siltstone, shale and tuffaceous sandstones of the Berry Siltstone formation.

Aerial imagery and vegetation mapping undertaken by the National parks and Wildlife Service (NPWS) shows that the study area has been cleared of native vegetation; however, native vegetation communities in the vicinity of the study area and around Lake Illawarra would have been comparable to vegetation found in the study area prior to clearing. These vegetation communities include (NPWS 2002):

- Lowland Woollybutt Melaleuca Forest located on flat low-lying Shoalhaven Group sediments at elevations between 10 and 35 metres above sea level. It is characterised by the presence of woolybutt (*Eucalyptus longifolia*), stringybark (*E. globoidea/E. eugenioides*), and honey myrtle (*Melaleuca decora*).
- Coastal Swamp Oak Forest occuring in estuarine environment that include low-lying areas of coastal floodplain and the finges of lakes and lagoons. Common and abundant species that occur include swamp oak (Casuarine glauca), Common Reed (Phragmites australis), and various sedges

A number of these plant species would have been used by Aboriginal groups to make various wooden implements. Wood from the Swamp oak was used to make tools such as nulla nullas, while the bark was removed and made into canoe hulls (Robinson 1991:152).

Local Aboriginal groups would have had access to an abundant range of marine, terrestrial and avian species present in the coastal resource zone which would have provided a variety of uses. Marine animals such as cockles, lobster and periwinkles were eaten (Wesson 2009). Abalone and stingrays were also used to make fish hooks and tools in addition to their use as a food source (Wesson 2009). Terrestrial species on the coastal plain, such as kangaroos, possums and wombats would have been exploited for food and to make cloaks, and tools (Attenbrow 2010). Avian species were used as a food source, and in the case of the pelican and black duck were often totem animals for Aboriginal groups (Wesson 2009).

3.1.4 Land use history

Within the study area, soil disturbance is associated with historic pastoral land-use practices and recreational usage. The entire area between Koonawarra and Yallah bays have been subjected to extensive grazing and agricultural practices from 1880's onwards (McDonald 1976). As well as vegetation clearing for pasture and agriculture, other land disturbances within the property include construction of the high voltage transmission lines and towers; recreational usage resulting in impact trails particularly by trail bikes and pedestrian traffic in the low lying areas along the foreshore.

Although these past land activities caused disturbances, they may have impacted only the surface contexts of any existing Aboriginal archaeological sites; it is unlikely that they would have destroyed sites. Clearing of the



land would have most likely removed any native culturally modified trees that were originally present in the study area.

3.2 Previous archaeological work

The majority of south coast sites date to the last 6,000 years when the sea-level stabilised following the last ice age. Prior to this, sea-levels were lower and the coast-line was located approximately 14 kilometres to the east of its current position. Coastal sites older than 6,000 years are rare, as most would have been inundated by the rising sea. Pleistocene-aged Aboriginal sites on the south coast include Bass Point, dated at 17,010+/-650 BP (ANU-536) (Bowdler 1976: 254) and Burrill Lake rock shelter, dated at 20,830+/-810 BP (ANU-138) (Lampert 1971:122). Test excavations undertaken at the Wollingurry Point midden dated the site to 3360 +/-90 years BP (Navin 1987: 104).

Several studies of site patterns and distribution have been completed for the Illawarra and South Coast.

3.2.1 Regional overview.

Sefton's (1984) study formed part of the Local Environmental Study prior to the Stage 1 of the West Dapto Release Area (WDRA) development in Horsley, north of the study area. A copy of the Sefton's report could not be obtained, but the review was revised from the AMBS study (2006).

The following key elements constitute Sefton's site predictive model of the WDRA:

- Archaeological sites at Bass Point provide evidence of Pleistocene occupation, and there is no evidence to suggest West Dapto could not have been occupied at this time.
- It is possible that stratified occupational deposit could be located in the Pleistocene sediments of the flood plains at West Dapto. Stratified occupational deposit of Holocene age is also likely (and more possible) to occur in the floodplain sediments.
- Ethnohistorical records suggest two major zones of exploitation: (1) the coastal zone, including the shoreline, off shore islands and Lake Illawarra; and (2) the inland zone, including undulating tablelands. Groups who used both areas were small, mobile, and associated with a locality, but also ranged over larger areas. On this basis, it could be expected that the West Dapto area could have been exploited from both east and west directions, in addition to tracks along ridgelines.
- The Lake Illawarra shoreline presents restricted areas for campsites relative to the concentrated resources. Midden sites may not represent base camps (occupation sites) but instead preferred sites for resource exploitation. These preferred sites are expected to occur within two kilometers of the Lake Illawarra shoreline, and would have been established around the lake shore.
- The resources of West Dapto (flora, fauna, available water) would have made the locality attractive to occupation and exploitation. However, resources would have been scattered and at low density in comparison to the lake, and the locality was probably not economically self-contained. Base camps would not have been suitable for exploitation of these resources.
- Stone materials are not sourced within the area, with the exception of latite cobbles and occasional quartz pebbles. Consequently, stone would have been conserved at camp sites.
- Tracks connecting the coast to the interior would be expected through the West Dapto area, due to its geographic location between the two. Aboriginal tracks are usually along ridges, and consequently, sites could be expected in the saddles of ridges.
- Along the eastern coastal plain and the foothills of the escarpment to the west, sites are likely to occur on ridgelines or on dry level land within 100 metres of a creek line.



- In the foothills of the Escarpment to the west, sites may also occur further away from water on saddles of the Marshall Mount spur and on level areas of smaller ridgelines along the escarpment slopes and foothills.
- Extractive sites will also be located in West Dapto. These would occur as scarred trees, isolated large cores, tools of latite or small isolated stone artefacts. These sites may occur in all landform contexts, although scarred trees could only be identified in areas where trees have not been fired or cleared.
- It is not expected that latite quarry sites will occur at West Dapto. Although these tools have been located in adjacent areas on the shores of Lake Illawarra, those tools have been prepared from pebbles or cobbles and not from quarried materials (AMBS 2006: 87-8).

The following four areas were identified in WDRA as having high archaeological potential:

- All level areas of the Western foothills zone and the Coastal Plain within 100 metres of a creek located on:
 - Quaternary deposited flood plains.
 - Budgong Sandstone
 - Berry Siltstone.
- Saddles on the ridges of Marshall Point spur.
- Level areas in the Forest Creek Valley in the Escarpment Protection Zone.
- Level areas of the escarpment slopes on the topographic benches and bluffs.

Three main categories of sites being of potential significance were also identified:

- Stratified occupational deposits: may occur in the flood plain deposits of West Dapto, these deposits
 would have significant research potential and would be rare. Such a site may contain stone artefacts,
 food refuse and charcoal, which could be dated to establish a chronology of occupation of West
 Dapto. This would be significant to the public and be of educational significance. If the site were of
 Pleistocene age, it would be of major heritage significance to the Australian people, such as that
 identified at Bass Point.
- Surface camp sites: these unstratified deposits are likely to contain stone artefacts, and possibly, remnants of shell and charcoal. Bone is unlikely to have survived. These sites may provide information on settlement patterns, economic exploitation and stone tool manufacture and maintenance. These sites have research potential, but it is also predicted that they will be the most common site type at West Dapto.
- Scarred trees: although the identification of scarred trees is recognized to be problematical, any found in West Dapto will be of research potential (i.e. study of individual tree scars, relationship with other site types). Scarred trees are rare in the North Illawarra as in most areas, mature native trees have been burnt, and the rarity of scarred trees increases their significance (AMBS 2006: 90).

Sefton (1990) completed an archaeological survey for West Dapto Stage One Release Area in 1990, located west of the study area, south of Bong Bong Road. The survey targeted areas previously identified as having high archaeological potential, i.e. all level areas within 100 metres of a creek situated on Quaternary deposits (floodplains) and/or Budgong Sandstone, and areas with remnant mature native vegetation. Three new Aboriginal sites were identified: two scarred trees Bong Bong 1 (AHIMS 52-2-1542) and Bong Bong 3 (52-2-1543) and an artefact scatter, Bong Bong 2 (AHIMS 52-2-1544). Two scars are located on Forest Red Gum *Eucalyptus tereticornis* and Narrow-leaf Stringybark *Eucalyptus eugenoides* trees. Two stone artefacts associated with Bong Bong 2 were located in an erosion gully above a cow track, approximately 2 metres from Reid Creek. Sefton concluded that the alluvium of the Robins Creek floodplains would contain significant stratified



archaeological deposits. However, floodplains associated with the Mullet Creek tributary, derived from Budgong Sandstone, would have been waterlogged and sites were unlikely to be present below alluvial deposits (Sefton 1990: 9).

Koettig (1992) conducted an assessment of Aboriginal sites for the electrification of the Dapto to Kiama railway line. Landforms surveyed included the low lying coastal plain and foothills. Due to the levels of previous disturbance during the construction of the railway it was considered that any possible archaeological sites would have been destroyed. No sites were located during the survey. Since the railway crosses areas that are deemed as having high archaeological sensitivity, such as dunes, old terraces, areas close to water sources that have not been affected by the recent development, archaeological material could still remain. Any new development outside the boundary of the railway easement was assessed as having archaeological sensitivity (Koettig 1992: 4).

Navin Officer (1993) completed archaeological testing of a proposed residential subdivision on the southern side of Bong Bong Road, West Dapto. This investigation followed on from Silcox's 1993 recommendation that the site had three areas of potential archaeological sensitivity. Area WD1 located within the lower slope and undulating creek flat landform was divided into five transects which were then sampled with a 35 test excavation units consisting of combination of auger holes and spade probes. One surface artefact was located at the western end of the identified WD1 Area. A series of ten random probes was excavated at 1to2 metres apart averaging 28 centimetres in depth. Four additional artefacts were recovered and the area was deemed as a site WD1, registered on AHIMS 52-2-1688. WD 2 Area located within a low rise landform between a creek and a swampy cut-off channel had a single transect running through it with a total of five test excavation units and no artefacts recovered. WD 3 Area was subject to only three random spade probes as it had a similar landform as WD 2; no artefacts were recovered.

Artefacts at the site WD1 (AHIMS 52-2-1688) were recovered from the upper 26 centimetres of the loam deposit within a 1 metre by 2 metre area, and consisted of silicified wood, chert and quartz flakes and one unidentified sedimentary core. Navin Officer stated that it was unlikely the artefacts were *in situ*, due to the extensive land use modifications of the topsoil from where artefacts were recovered (Navin Office 1993: 11). Given the dense grass cover, size of the test area and the limitations of subsurface testing, Navin Officer considered that there was a possibility that more artefacts were present both on surface and subsurface in WD1 Area. However, potential for archaeologically significant sites and/or undisturbed archaeological deposits was assessed to be minimal (Navin Officer 1993:12). Consent to Destroy was issued by the National Park and Wildlife in 1993 in order to destroy the site WD1 (AHIMS 52-2-1688).

Navin Officer (1994) was commissioned by Camp Scott and Furphy to undertake an archaeological survey of the proposed Illawarra water quality project installation at Kembla Grange. The survey was a targeted survey of creek banks and flats, areas of exposure around an existing dam, and flat ground on the southern part of their study area. These areas had higher degree of ground surface visibility and were considered as being favoured by Aboriginal people for occupation activities. Footslopes, creek banks, creek flats and plains were all aggrading landforms due to colluvial deposition and mass soil movement and deposition of sediments by water. The steep slopes on the spurs and in the north were sampled (1994: 7). During this survey there were no new Aboriginal sites identified. It was argued that archaeological potential in the proposed works area was low due to the results of previous testing in the similar landforms (Navin Officer 1993).

AMBS (2006) completed an Aboriginal Heritage Management Plan for the West Dapto Release Area (WDRA). This large scale study was commissioned by the Wollongong City Council and encompasses the study area. From the initial survey program, a total of 24 archaeological sites; 13 open camp sites, 6 isolated finds, 5 scarred trees were located within the boundaries of the WDRA study area. These were positioned on all landforms including creek lines (6), alluvial flats (3), spanning creek lines and alluvial flats (3), hillslopes (8) and spur crests (4). A second stage of assessment consisted of subsurface testing of a 100 square metres area



(100, 1 metre by 1 metre test pits) was undertaken across all representative landforms of the Mullet, Duck and Marshall Mount Creeks catchment area.

A total of 425 artefacts (353 from within < 20 centimetres of deposit) were recovered from the following landscape contexts:

- Hillslopes (158, of which 146 were from one test pit).
- Alluvial flats -Pleistocene and Holocene terraces more than 10 metres away from stream channels (118).
- Streams- edges of Pleistocene and Holocene terraces within 10 metres of stream channels (86).
- Spur crests (63).

A range of raw materials were represented including, chert, quartz, quartzite, silcrete, silicified tuff and finegrained siliceous. Artefact types included broken flakes, flakes, flaked pieces and cores. The range of raw materials and artefact types was considered characteristic of the region by AMBS.

AMBS concluded that from known site patterning it is likely that additional archaeological sites may occur throughout all landforms of the WDRA, although at varying site and artefact densities, and subsequently all parts of the WDRA are considered to have some archaeological potential. AMBS classified the current study area as low to moderate potential. In general, the highest artefact density was encountered along second-order streams, followed by the first order streams, spur crests and then hillslopes. Although artefact numbers recovered from individual test pit was low, high artefact recovery across all the landforms illustrate that the use of WDRA area was widespread, but not intensive. It was concluded that low density artefact scatters would be relatively common within the entire WDRA area (AMBS 2006: 245).

The report recommended further investigation and management of those areas considered to have higher archaeological potential, including a number of spur crests within the Mullet Creek corridor, the benched foot slopes within the Escarpment foothills adjacent to creek lines and the lower tributaries of major creeks (AMBS 2006: 266). These landforms would have provided camping sites, functioned as travel routes or provided a range of resources.

Areas of cultural value highlighted by the Aboriginal stakeholders throughout the development of this report are closely related to the archaeological record and the natural environment (AMBS 2006: VIII). All archaeological sites were identified as having cultural values, with the connection between cultural and natural values being emphasised. Large scatters and scarred trees were considered of higher significance, as were those sites retained within a natural setting. Conservation of important archaeological sites and natural areas such as creek lines and vegetated areas was a common theme identified among the Aboriginal

As part of the WDRA, AMBS commissioned Philip Hughes to complete a geomorphology / archaeological testing program prior to the commencement of the larger sub-surface investigation program. Hughes (2005) excavated a series of test pits using a combination of hand excavation and a backhoe within various landforms identified by AMBS (2006). The geomorphic testing revealed that while all landforms had the potential to contain artefact-bearing deposits, archaeological evidence for Aboriginal occupation and use of the Pleistocene terraces would be restricted to the Holocene period (AMBS 2006: 176). Artefact bearing deposits across all landforms comprise soft to firm soils and sediment (Hughes 2005: 4). The depth of deposits varies across landforms, with the shallowest sediments occurring on ridges and hill slopes, and the deepest sediments occurring on Holocene terraces. 'Richer' archaeological deposits could be expected within Holocene terraces, but they would be disturbed by floods and perhaps buried in deeper alluvium (AMBS 2006: 177). Artefacts were retrieved from alluvial flats at a maximum depth of 60 to70 centimetres.

Biosis (2009) was commissioned by Connectland Pty Ltd to undertake Aboriginal archaeological and cultural heritage assessment for the proposed Illawarra Employment and Teaching Centre, West Dapto, located



approximately 3.3km North West of the study area. The assessed area encompassed 42.88 hectares to the north of Bong Bong Road and west of Mullet Creek. Archaeological survey was targeted towards areas that will be impacted by the proposed development, and landforms and areas identified in the predictive modelling as having high likelihood for the presence of sites, i.e. ridgelines and waterways. Two Isolated artefacts were identified during the site survey, Bong Bong Road IA1 (AHIMS 52-2-3659) to the immediate north of Bong Bong Road within the exposure around the tree, and Bong Bong Road IA2 (AHIMS 52-2-3660). Comprehensive review of AMBS study (2006) indicated that the newly recorded site 52-2-3660 was most likely already recorded site WDRA_AX_01 (AHIMS 52-2-3289). Both Bong Bong Road IA1 and Bong Bong Road IA2 were assessed as having low scientific significance and they were considered to be a common occurrence within the region (Biosis 2009:42-3). Their presence conforms to the site predictive model for the region where Aboriginal sites are likely to occur on level, well-drained ground adjacent to wetlands and resources. It was recommended that both sites be salvaged and relocated in the event impacts cannot be avoided.

3.2.2 Local overview

A number of Aboriginal cultural heritage investigations have been conducted within the region (within approximately 5 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.

Sefton (1980) undertook an archaeological survey of the proposed transmission line routes in the West Dapto-Yallah Area of the City of Wollongong. During this survey two archaeological sites were identified. Registered site Yallah Site 1 (52-5-0123) consisted of one isolated artefact that was located on the northern bank of a tributary of Duck Creek, made from fossilised wood. Yallah Site 2 (52-5-0122) was located within 150 metres of the Lake Illawarra on a lower slope and is a sparse scatter of seven artefacts made from chert, jasper and rhyolite. This site was located on a gradual slope, and has been previously disturbed by quarrying, erosion and underground services (Sefton 1980: 10). Both sites are approximately 3 kilometres south-east of the study area and are within the close proximity to reliable, permanent sources of water on flat elevated grounds. It was recommended that any excavations in the vicinity of site Yallah 2 be monitored, and no impacts were proposed to site Yallah 1.

Dallas and Navin (1987) conducted an archaeological survey along the Southern Foreshore of Lake Illawarra and on Bevans, Picnic, Berageree and Werrang islands approximately 8 kilometres south east of the current study area. The survey identified five new shell midden sites and one previously recorded midden site (AHIMS 52-5-0119). In their discussion of the survey results Dallas and Navin suggested that the locations of the middens on the islands was not necessarily indicative of preferential use. Rather, they suggest it was more likely that the lack of disturbances on the islands compared to the more heavily disturbed Illawarra Lake foreshore has resulted in the destruction of foreshore middens and the preservation of island middens.

Navin Officer (1997) undertook an archaeological investigation of a proposed residential subdivision at Lot 1 DP253917, Mount Brown Road in South Dapto, approximately 2.5 kilometres west of the current study area. A survey was conducted as part of this assessment, but the survey did not identify any Aboriginal sites. The absence of sites was attributed to a number of factors including the very low ground surface visibility, a lack of specific resources in the area, and shallow soils with an absence of colluvium material adjacent to drainage lines. Previous land use practices also indicated that little material would have remained *in situ* due to disturbances. The results of this survey were consistent with those obtained from other archaeological surveys in the local area and with the regional pattern of sparse site occurrence in the low hilly lands interior of Lake Illawarra and the coastal plain (Navin Officer 1997: 7).

Comber Consultants Pty Ltd (2010) undertook an Aboriginal archaeological assessment for the proposed bike and pedestrian path around Lake Illawarra, which the current study area partly lies within. As part of this assessment Comber undertook basic predictive modelling and developed predictive statements for various



site types. These statements indicated that there was a possibility for middens, burials, open camp sites, axe grinding grooves and isolated finds to be present in the study area.

Following background research, Comber conducted a survey of their study area. No Aboriginal archaeological sites were recorded during this survey, but area 2, which the current study area lies partially in, and area 4 of their study area were identified with a high potential to contain sub surface archaeological deposits.

Considering a high number of previously recorded Aboriginal archaeological sites (13) within the vicinity of the study area and the landform they were in (Lake Illawarra foreshore), it was recommended that archaeological sub-surface testing be undertaken in areas 2 and 4 in order to determine the existence, and then nature and extent of any such deposits.

3.2.3 Previous Aboriginal archaeological test excavations within the study area

Biosis (2010) conducted an Aboriginal Archaeological Assessment of the Tallawarra lands for TRUenergy which encompassed the current study area. Biosis was commissioned to conduct sub-surface testing for a number of areas assessed by Kelleher and Nightingale (2006) as having moderate and high archaeological sensitivity.

A total of 10 areas were excavated across five landform types (Figure 7). These landforms included foreshore, spur line, drainage line, hill slope, and creek line landforms. The excavations identified 24 stone artefacts and one piece of ochre across the 10 excavation areas; the highest number of artefacts were uncovered in the creek line landform (n=13) followed by the drainage line landform (n=10) (Biosis 2010: 134-135). The foreshore and hill slope landforms each contained one artefact and the spur line did not contain any (Biosis 2010: 134-135). The artefact assemblage consisted of a range of raw materials including chert, quartzite, silcrete, basalt, chalcedony and siltstone.

An analysis of the soil profiles within various landform units in the study area indicated that depth of deposit increased with proximity to water (specifically Duck Creek). Disturbances to the soil stratigraphy were found to be limited to the upper (top soil) layer, with lower stratigraphic units showing very low to no evidence of previous disturbance. The soil profiles within TLPD AFT-7 (AHIMS 52-5-0613), TLPD AFT-8 (AHIMS 52-5-0614), TLPD AFT-9 (AHIMS 52-5-0615), were all noted to have three distinct stratigraphic units displaying no evidence of previous disturbance. Testing was not conducted at Tallawara Pipeline PAD3 (AHIMS 52-5-0523)

Biosis concluded that the low number of artefacts indicated that Aboriginal people were using the Tallawarra Lands, with occupation focusing on Duck Creek, but it was likely sporadic or low density (Biosis 2010, p 147).

Biosis (2011) were commissioned by the Lake Illawarra Authority to undertake archaeological assessment and test excavations of the Tallawarra recreational shareway based on the recommendations of Comber (2010). The Tallawarra Lands development encompasses parts of the area assessed by Biosis (2011).

As part of this assessment Biosis undertook background research and used it to construct several predictive statements for the study area. These statements indicated that (Biosis 2011: 36-39):

- Midden shell and lithic material have been known to occur on sand bodies such as coastal beach dune systems, elevated ground adjacent to wetlands such as low gradient basal colluvial slopes, terminal spur line crests and alluvial terraces along valley floor drainage corridors.
- Artefact scatters may be identified anywhere within the study area but they are more likely to be identified near water-related landforms and on gently inclined slopes within 100 m of water. Stone artefacts are more likely to consist of sandstone, quartz or volcanics.
- Shelters, grinding grooves and raw materials suitable for stone tool manufacture will not occur within the study area due to a lack of suitable geology.



- Scarred trees may occur anywhere within the study area where mature trees remain.
- A burial was recorded on the shores of Lake Illawarra. Due to alluvial deposits within the study area and previously recorded burial, there is a possibility that unrecorded burials may be located in the area.

The test excavations were undertaken as part of the assessment involved 157 auger holes along the foreshore (Figure 7). The excavations identified one new artefact scatter Tallawarra Point 1 (AHIMS and extended the pre-existing site Tallawarra Power Station Midden (AHIMS 52-5-0070). Two artefacts consisting of a quartz flake fragment and a silcrete geometric microlith were identified at Tallawarra Point 1. It was suggested that this site was likely representative of transient occupation. Six stone artefacts were also excavated in a tidal creek landform directly south of Tallawarra Power Station Midden (AHIMS 52-5-0070). The artefacts consisted of four chert flakes, 1 quartz flake and one silcrete flake. This scatter was identified as part of the Tallawarra Power Station Midden (AHIMS 52-5-0070). Biosis suggested that the Tallwara Power Station Midden was representative of camping activities or frequent travel through the area (Biosis 2011: 61-62). No midden material was encountered during the test excavations.





3.2.4 AHIMS site analysis

A search of the OEH Aboriginal Heritage Information Management System (AHIMS) database (Client Service ID: 287109) identified 86 Aboriginal archaeological sites within a 5 square kilometre search area, centred on the proposed study area.

Four AHIMS sites (TLPD AFT-7 (AHIMS 52-5-0613), TLPD AFT-8 (AHIMS 52-5-0614), TLPD AFT-9 (AHIMS 52-5-0615), and Tallawara Pipeline PAD3 (AHIMS 52-5-0523) are located *within* the study area (Figure 8). AHIMS search results are provided in Appendix 1.

Table 5 following provides the frequencies of Aboriginal site types in the 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. The descriptions and maps were relied upon when notable discrepancies occurred in the locations of sites.

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 102 results presented here, compared to the 86 sites identified in AHIMS.

Site type	Number of occurrences	Frequency (%)
Aboriginal ceremony and dreaming	2	1.96
Artefact	67	65.69
Modified tree	1	0.98
PAD	13	12.75
Shell	18	17.65
Stone Arrangement	1	0.98
Total	102	100

Table 5 AHIMS site type frequency

A simple analysis of the Aboriginal cultural heritage sites registered within the 5 square kilometre buffer of the study area indicates that artefacts are the most commonly recorded site type (n=67, 65.69%). This is followed by shells sites (n=18, 17.6%) and PAD sites (n=13, 12.75%). Aboriginal ceremony and dreaming (n=2, 1.96%), modified tree (n=1, 0.98%) and stone arrangement (n=1, 0.98%) were also recorded in the region.





3.3 Discussion

Ethno-historical information regarding the study area indicates that the region was intensively occupied by the Wodi Wodi of the Dharawal language group before European occupation.

The current study area is characterised by the coastal plain landscape, and is situated on the open banks of Lake Illawarra backing onto the slopes of the Mount Brown. The proximity to Lake Illawarra would have provided access to aquatic animals which would have been used by Aboriginal groups in the area as a food source and for tool production. The easy access to aquatic species should result in the potential for shell middens to be present in the study area. This is supported by previous Aboriginal archaeological test excavations conducted in the area (Biosi 2011) and AHIMS data and which showed that middens were the second most common site type in the region. Geology of the Illawarra region also provided access to stone resources useful for tool manufacture. The AHIMS data indicated that stone artefacts are the most common site type in the region so they are likely to be present in the study area

Previous archaeological work within the study area has not only focussed on specific development activities but has recognised the archaeological and cultural landscape values of the locality. The previous studies provide a general overview of Aboriginal archaeological site modelling and predictive behaviour within the current study area. In general, previous archaeological work indicates that areas of archaeological potential will occur where disturbance has been limited, and the most likely site type to be encountered will be middens sites and artefacts.

The previous archaeological test excavations conducted within the study area (Biosis 2010) indicates that low density, undisturbed subsurface archaeological deposits are present within the study area. It is likely that further subsurface archaeological deposits are present in areas not previously tested.

3.3.1 Predictive Statements

A number of predictive statements have been formulated to broadly predict the type and character of Aboriginal cultural heritage sites likely to exist(ed) throughout the study area and where they are more likely to be located.

The statements are based on:

- Site distribution in relation to landscape descriptions 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.

These statements assist in identifying the site types most likely to be encountered during the survey and subsequent sub-surface investigations across the present study area (Table 6). The definition of each site type is described firstly, followed by the predicted likelihood of this site type occurring within the study area.



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.	High: Stone artefact sites have been previously recorded in the region across a wide range of landforms and within the study area. They have high potential to be present in undisturbed areas within the study area.
Shell middens	Deposits of shells accumulated over either singular large resource gathering events or over longer periods of time.	Moderate: Shell midden sites have been recorded within the vicinity of study area. The proximity of the study area to Lake Illawarra indicates a high potential for the presence of shell middens
Quarries	Raw stone material procurement sites.	Low: There is no record of any quarries being within or surrounding the study area.
Potential archaeological deposits (PADs)	Potential sub surface deposits of cultural material.	Moderate: PADs have been recorded in the region across a wide range of landforms. They have the potential to be present in undisturbed landforms of the study area
Modified trees	Trees with cultural modifications	Low: Due to extensive vegetation clearing from of the study area there is low potential for modified trees.
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.
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	Low: There are currently no recorded mythological stories for the study area.

Table 6 Aboriginal site prediction statements



Site type	Site description	Potential
	informants.	
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 29 June 2017. 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 Tallawarra Pipeline PAD 3 (AHIMS 52-5-0523), TLPD AFT 7 (AHIMS 52-5-0613), TLPD AFT 8 (AHIMS 52-5-0614) and TLPD AFT 9 (AHIMS 52-5-0615) 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 potential archaeological deposits (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 these portions of the study area:

- All landforms (including each occurrence of a specific landform type that will be impacted) that will be potentially be impacted.
- Landforms with a higher potential for Aboriginal heritage and justifying the selection of these landforms.

4.2.2 Survey methods

The archaeological survey was conducted on foot with a field team of one member. 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 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 and the Map Grid of Australia (94) coordinate system.

4.3 Archaeological survey results

A total of 5 transects were walked across three landforms (Figure 9). This follows the methodology set out in Burke and Smith (2004: 65) which states that a single person can only effectively visually survey an area of two linear metres. No new Aboriginal sites or PADs were identified in the study area. The results from the field survey have been summarised in Table 7 below.

The Central Precinct consists of a crest on the western boundary associated with a large Fig tree, open drainage depression and simple slope associated with Mount Brown with significant views over the surrounding area. The slope associated with the eastern portion of the study area is steep with the slope varying from 30 to 40 degrees (Table 8).

4.3.1 Constraints to the survey

With any archaeological survey there are several factors that influence the effectiveness (the likelihood of finding sites) of the survey. The factors that contributed most to the effectiveness of the survey within the study area were visibility, exposure and disturbance.

4.3.2 Visibility

In most archaeological reports and guidelines visibility refers to ground surface visibility, 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 (NSW NPWS 1997, Appendix 4). Visibility within the study area was generally poor, with areas of exposure isolated to disturbance associated with the dams and fence lines. Visibility was 80% within these areas (Plate 1).

4.3.3 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 and Smith 2004: 79; NSW NPWS 1997, Appendix 4). Overall, the study area displayed areas of exposure of approximately 5%.

4.3.4 Disturbances

Disturbance in the study area is associated with natural and human agents. 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 are prevalent in the study area and cover large sections of the land surface. The agents 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; light industrial practices such as creation of artificial dams within the study area. Areas that have gone through disturbance are associated with dams, fence lines and infrastructure associated with the Tallawarra Power Station (Plate 2).





Plate 1 The study area showing poor surface visibility due to vegetaton cover, facing north



Plate 2 Disturbance associated with the construction of dams, facing west





Plate 3 Tree line along the southern boundary with fig tree on the right, facing south



Plate 4 Simple slope down towards open drainage depression, facing west



Table 7Survey coverage

Survey Unit	Landform	Survey unit area (m²)	Visibility (%)	Exposure (%)	Effective coverage area (m²)	Effective coverage (%)
1	Drainage line	169,279	80	5	6,771	3.99
2	Hill slope	180,098	80	5	4,507	2.50
3	Spur line	211,679	80	5	8,467	3.99

Table 8 Landform summary

Landform	Landform area (m²)	Area effectively surveyed (m²)	Landform effectively surveyed (%)	No. of Aboriginal sites	No. of artefacts or features
Drainage line	169,279	6,771	3.99	0	0
Hill slope	180,098	4,507	2.50	0	0
Spur line	211,679	8,467	3.99	0	0





4.4 Discussion of archaeological survey results

The study area is located within a drainage and simple slope landform pattern associated with Ducks Creek to the south of the study area. There are three soil landscapes present within the study area: one erosional soil landscape called the Shellharbour soil landscape, one residual landscape called the Gwynneville soil landscape, and one swamp soil landscape called the Fairy Meadow soil landscape. Erosional soils have a high to very high erodibility rating and would therefore be susceptible to frequent soil movement and result in poor preservation of archaeological material at shallow depths but would potentially lead to exposures of any deeper archaeological deposits where topsoil has eroded away. Residual soils have moderate soil erodability with some soil movement and, combined with the shallow loam soils, the preservation of archaeological material is likely to be poor throughout the study area. Swamp soils have low soil erodability to flooding and seasonal waterlogging would result in sites only being present on raised landforms within this soil landscape.

The field survey revealed that parts of the study area had been subject to previous ground disturbance due to construction of towers for the Tallawarra Power Station. These areas would have displaced surface cultural material and disturbed deeper buried archaeological deposits. However, most of the study area had only limited disturbance caused by the construction of dams and fence lines, and animal trampling from farming practices. Although these processes would displace surface cultural material, they would not affect deeper buried archaeological deposits.

No previously unrecorded Aboriginal sites or objects were located during the field survey. The four AHIMS sites within the study area were inspected during the survey. The AHIMS site areas were noted to be in moderate to good condition. Disturbances observed at the AHIMS site locations consisted of animal trampling and vegetation clearance.

A review of previous archaeological studies, surveys, test excavations and regional predictive modelling indicates that all landforms within the study area were utilised to some degree by Aboriginal people in the past. This has concluded that:

- Majority of the test pits conducted by AMBS (2006) in the WDRA containing artefacts were located within alluvial flats, followed respectively by hillslopes, spur crests, 3rd order, 2nd order, 4th order and at last 1st order creek lines.
- AHMS (2012) in excavations further along Robins Creek determined that alluvial flats had the highest density of artefacts (30.2 per metre square), followed by hillslope (17.3 metre square) and spur crest (16.9 metre square).
- Previous investigations along Robins Creek have determined that the alluvial terraces associated with this landform have the potential to contain cultural material which appears to be well preserved *in situ*. Artefacts within the *Fairy Meadow* soil landscape at this location were retrieved from between 60 to 80 centimetres depth.
- Predictive modelling indicates that of the sites located on stream landforms, the majority were along the 3rd order, followed by 4th, then 2nd and last 1st order creek lines.

Based on the site survey and previous assessments the drainage line that runs through the study area and into Ducks Creek was assessed as having high archaeological potential to contain further subsurface cultural deposits. The proximity of this area to useful resources and fresh water indicates it would have been a valuable occupation area. The ridgeline in the study area was assessed as having moderate potential as previous research had determined that the landform is likely to contain low density or isolated artefacts that were discarded as Aboriginal people travelled along them. Areas that have undergone significant previous disturbance would have removed sub-surface deposits from their original contexts and were assessed as low



potential as a result. Hillslopes were also assessed as low potential as they tended to be sloped and at the time of survey were heavily waterlogged and unsuitable for occupation or travel (Figure 10).

A fig tree located near the western boundary of the study area is of cultural value as they are the main trees used for either men's business or women's business, as meeting places, and are known to be used in the area as birthing trees. The fig tree is associated with site TLPD AFT 9 (AHIMS 52-5-0615) was identified as being culturally important in previous assessments.



High
Moderate
Low



5 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 Aboriginal Cultural Heritage Assessment Report will detail the cultural values of Aboriginal sites in the study area.

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 (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, OEH and the Heritage Branch, 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 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 Guide (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 interrelatedness 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.

5.2 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 and Smith 2004: 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: 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. The site content ratings used for archaeological sites are provided in Table 9. Site condition refers to the degree of disturbance to the contents of a site at the time it was recorded. The site condition ratings used for archaeological sites are provided in Table 10.

Table 9	Site contents ratings used for	archaeological sites.
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Rating	Description
0	No cultural material remaining.
1	Site contains a small number (e.g. 0–10 artefacts) or limited range of cultural materials with no evident



Rating	Description
	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 10	Site condition rat	ings used for	[,] archaeological	sites.
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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 note that Aboriginal archaeological sites are generally of high research potential because 'they are the major source of information about Aboriginal prehistory' (1995: 149). 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 and Smith 2004: 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 provided in Table 11.

	Table 11	Site representativenes	s ratings used fo	r archaeological sites
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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 provided in Table 12.

Rating	Description		
1-3	Low scientific significance.		
4-6	Moderate scientific significance.		
7-9	High scientific significance.		

Table 12 Scientific significance ratings used for archaeological sites

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 13.

5.2.1 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 13 and Table 14 below.

Table 13Scientific significance assessment of archaeological sites recorded within the study
area.

Site name	Site content	Site condition	Representativeness	Scientific significance
Tallawarra Pipeline Pad 3 52-5-0523	-	2	-	Unknown
TLPD AFT 7 52-5-0613	1	2	1	4 - Moderate
TLPD AFT 8 52-5-0614	1	2	1	4 - Moderate
TLPD AFT 9 52-5-0615	1	2	1	4 - Moderate



Table 14Statements of scientific significance for archaeological sites recorded within the study
area.

Site name	Statement of significance
Tallawarra Pipeline PAD 3 52-5-0523	This PAD site was registered by the Wadi Wadi Coomaditchie following the completion of a field survey for a proposed pipeline easement. The PAD area is situated on a mid slope ridge on a moderate slope. It overlooks a small drainage feature to the south west and Duck Creek to the south. PAD sites represent a common example of a site within the Illawarra region. However; archaeological testing has not been conducted at this site, therefore the site content and representativeness of the site cannot be adequately assessed. The site has no direct historical or aesthetic associations. This site has been assessed as having unknown scientific significance. The site displays low levels of disturbance and represents a common example of a site within the area. The site also has no direct historical or aesthetic associations and has a low scientific potential. The scientific significance of this site has been assessed as moderate.
TLPD AFT 7 52-5-0613	Site was recorded as a stone artefact scatter following test excavations conducted at the site. The excavations identified one chert core and one silcrete flake. The site was located on a drainage feature in an upper slope landform. The site displays low levels of disturbance and represents a common example of a site within the area. The site has no direct historical or aesthetic associations. The scientific significance of this site has been assessed as moderate.
TLPD AFT 8 52-5-0614	Site was recorded as a stone artefact scatter located on a moderate slope north or Yallah Bay Road. Two artefacts were identified during test excavations of the site, consisting of one chert flake and one chert flake fragment. The site displays low levels of disturbance and represents a common example of a site within the area. The site has no direct historical or aesthetic associations. The scientific significance of this site has been assessed as moderate.
TLPD AFT 9 52-5-0615	The site was recorded as an isolated artefact and was located on a spurline in a hillcrest landform. The artefact was uncovered during test excavations of the site and one piece of debitage was identified. A fig tree associated with TLPD AFT 9 (52-5-0615) was identified as being culturally important in previous assessments (Biosis 2010). The fig tree is of cultural value as they are the main trees used for either men's business or women's business, as meeting places, and are known to be used in the area as birthing trees. The site displays low levels of disturbance and represents a common example of a site within the area. The site has no direct historical or aesthetic associations. The scientific significance of this site has been assessed as moderate.



6 Impact assessment

As previously outlined, the Project proposes to modify the existing concept approval for the Central Precinct (MP 09_0131 MOD 1) to allow an increased residential lot yield. The development of the Central Precinct will comprise commercial, retail, industrial, open space and associated civil works. The modification to the concept approval seeks to increase the footprint and residential yield for the Central Precinct from 350 lots to 588 lots.

6.1 Predicted physical impacts

The proposed works will include earthworks, the construction of new residential dwellings and associated infrastructure including roads, underground piping and cabling, and associated earthworks.

The proposed development will involve the following activities that have the potential to impact on Aboriginal archaeological sites or objects:

- earthworks
- subdivision
- new housing stock
- public open space areas
- new recreation facilities
- environmental management and conservation areas and riparian corridors
- new internal roads
- new pedestrian and cycle pathways
- landscaping
- power station buffer areas
- installation of services (water, gas, power)

Within the study area, there are four recorded Aboriginal sites that may be subject to harm. It is expected that the potential of harm to Aboriginal archaeological sites Tallawarra Pipeline PAD 3 (52-5-0523), TLPD AFT 7 (52-5-0613), TLPD AFT 8 (52-5-0614), and TLPD AFT 9 (52-5-0615) from the proposed development will be direct, with a total loss of value.

Strategies to avoid or minimise harm to Aboriginal heritage in the study area are discussed below. A summary of impacts is provided below in Table 15.

Table 15 Summary of potential archaeological impacts

AHIMS site no.	Site name	Significance	Type of harm	Degree of harm	Consequence of harm
52-5-0523	Tallawarra Pipeline PAD 3	Moderate	Direct	Total	Total loss of value



AHIMS site no.	Site name	Significance	Type of harm	Degree of harm	Consequence of harm
52-5-0613	TLPD AFT 7	Moderate	Direct	Total	Total loss of value
52-5-0614	TLPD AFT 8	Moderate	Direct	Total	Total loss of value
52-5-0615	TLPD AFT 9	Moderate	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 and Walker 1994: 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.

Tallawarra Pipeline PAD 3 (52-5-0523) has been assessed as having unknown archaeological significance. The proposed development cannot avoid impacts to Tallawarra Pipeline PAD 3 (52-5-0523). Further archaeological assessment in the form of subsurface investigations (archaeological test excavations) will be required in order to mitigate any development impacts.

TLPD AFT 7 (52-5-0613), TLPD AFT 8 (52-5-0614), and TLPD AFT 9 (52-5-0615) have been assessed as having moderate archaeological significance. TLPD AFT 7 (52-5-0613), TLPD AFT 8 (52-5-0614), and TLPD AFT 9 (52-5-0615) are located within the proposed development area and impacts on them cannot be avoided (Figure 11). TLPD AFT 7 (52-5-0613), TLPD AFT 8 (52-5-0614), and TLPD AFT 9 (52-5-0615) should be salvaged under an AHIP prior to development in order to mitigate impacts to the AHIMS sites.

Previous assessments, including a limited archaeological test excavation program conducted by Biosis (2010), identified areas of high and moderate subsurface archaeological potential within the study area. Further testing is therefore recommended in the areas of high and moderate subsurface archaeological potential prior to development, to fully identify the nature and extent of Aboriginal occupation within the study area.

Furthermore, the conservation and integration of the Fig Tree associated with TLPD AFT 9 (52-5-0615) should be incorporated into the modification of the concept approval.





7 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: Further archaeological assessment is required in areas of moderate and high archaeological potential

Areas identified as having high and moderate archaeological potential should be avoided wherever possible (Figure 10). If impact to these areas cannot be avoided subsurface investigations (test excavations) will be required prior to the commencement of works as a condition of the DA or concept approval. Test excavations should be conducted in accordance with the *Code of Practice for archaeological investigation for Aboriginal objects in NSW* (DECCW 2010b) and *Aboriginal cultural heritage consultation requirements for proponents in New South Wales* (DECCW 2010a).

Recommendation 2: Further archaeological assessment is required at Tallawarra Pipeline PAD 3 (AHIMS 52-5-0523)

If impacts to Tallawarra Pipeline PAD 3 (AHIMS 52-5-0523) cannot be avoided, subsurface investigations (test excavations) will be required prior to the commencement of works as a condition of the DA or concept approval. Test excavations should be conducted in accordance with the *Code of Practice for archaeological investigation for Aboriginal objects in NSW* (DECCW 2010b) and *Aboriginal cultural heritage consultation requirements for proponents in New South Wales* (DECCW 2010a).

Recommendation 3: Conservation of Fig Tree associated with TLPD AFT 9 (AHIMS 52-5-0615)

If possible the Fig Tree associated with TLPD AFT 9 (AHIMS 52-5-0615) should be conserved and incorporated into the modification of the concept approval.

Recommendation 4: No further archaeological assessment is required in areas of low archaeological potential

No further archaeological work is required in areas identified as having low archaeological potential except in the event that unexpected Aboriginal sites, objects or human remains are unearthed during development (refer to Recommendations 8 and 9 below).

Recommendation 5: Fencing of AHIMS sites

AHIMS sites or PAD areas located within 30 metres of the area of proposed works should be clearly marked and fenced in order to avoid unintentional impacts during construction.



Recommendation 6: Aboriginal cultural heritage induction for workers and contractors

The locations of each AHIMS site and PAD area located within the Tallawarra Lands development should be clearly mapped. Workers and contactors working at, or visiting the site should be made aware of the location of all AHIMS sites and PAD areas within the Tallawarra Lands development through an Aboriginal cultural heritage induction.

Recommendation 7: Application for an Aboriginal heritage impact permit (AHIP)

Should the Development Application (DA) be approved, it is recommended that Cardno apply to OEH for an AHIP to destroy the listed Aboriginal sites within the study area which are currently protected under the NSW *National Parks and Wildlife Act 1974*. **The AHIP should be for a term of ten (10) years.** The sites that will be impacted by the proposed works are as follows

- TLPD AFT 7 (AHIMS 52-5-0613)
- TLPD AFT 8 (AHIMS 52-5-0614)
- TLPD AFT 9 (AHIMS 52-5-0615)
- Tallawarra Pipeline PAD 3 (AHIMS 52-5-0523)

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 Office of Environment and Heritage (OEH) 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 OEH. 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 OEH for the processing of AHIPs, which is dependent on the estimated total cost of the development project.

Recommendation 7: Discovery of Unanticipated Aboriginal Objects

All Aboriginal objects and Places are protected under the *NSW National Parks and Wildlife Act 1974*. It is an offence to knowingly disturb an Aboriginal site without a consent permit issued by the Office of Environment and Heritage (OEH). Should any Aboriginal objects be encountered during works associated with this proposal, works must cease in the vicinity and the find should not be moved until assessed by a qualified archaeologist. If the find is determined to be an Aboriginal object, the archaeologist will provide further recommendations. These may include notifying the OEH and Aboriginal stakeholders.

Recommendation 9: 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 OEH'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 OEH.



Recommendation 10: Continued consultation with the registered Aboriginal stakeholders

As per the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010a), it is recommended that the proponent provides a copy of this report to the Aboriginal stakeholders and considers all comments received. The proponent should continue to inform these groups about the management of Aboriginal cultural heritage sites within the study area throughout the life of the project.



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Appendices



Appendix 1 AHIMS results

THE FOLLOWING APPENDIX IS NOT TO BE MADE PUBLIC

AHIMS site no.	Site name	Site type
52-5-0246	Yallah Gully 3	Artefact, Shell
52-5-0247	Yallah Gully 2	Artefact
52-5-0248	Yallah Gully 1	Artefact
52-5-0249	Ash Pond 1	Artefact
52-5-0122	Yallah (Yallah Site2)	Artefact
52-5-0123	Yallah Site 1	Artefact
52-5-0221	Kurrura point	Shell, Artefact
52-5-0222	Mogurah Point	Shell, Artefact
52-5-0062	Yallah	Modified Tree (Carved or Scarred)
52-5-0070	Tallawarra Power Station	Shell, Artefact
52-5-0223	Boomberry Pt 1	Shell, Artefact
52-5-0224	Boomberry Point 2	Shell, Artefact
52-5-0225	Elizabeth Point	Artefact
52-5-0226	Mullet Creek	Shell, Artefact
52-5-0227	Macquarie Rivlet 1	Artefact
52-5-0229	Macquarie Rivlet 3	Artefact
52-5-0230	Macquarie Rivlet 4	Artefact
52-5-0231	Haywards Bay	Shell, Artefact
52-5-0237	Wollingurry Point	Shell, Artefact
52-5-0398	TEST PITTING AREA 19	Artefact
52-5-0412	Test Pitting area 19	Artefact
52-5-0523	Tallawara Pipeline PAD3	Potential Archaeological Deposit (PAD)
52-5-0516	Tallawara Canal Midden 1	Artefact, Potential Archaeological Deposit (PAD)
52-5-0524	KPAD1 Wyndarra Way	Potential Archaeological Deposit (PAD)
52-5-0622	Cleveland Road AFT-7	Artefact
52-5-0623	Cleveland Road AFT-8	Artefact
52-5-0610	TLPD AFT-1	Artefact
52-5-0611	TLPD AFT-5	Artefact



AHIMS site no.	Site name	Site type
52-5-0612	TLPD AFT-6	Artefact
52-5-0613	TLPD AFT-7	Artefact
52-5-0614	TLPD AFT-8	Artefact
52-5-0615	TLPD AFT-9	Artefact
52-5-0619	Cleveland Road AFT-6	Artefact
52-5-0616	TLPD AFT-10b	Artefact
52-5-0617	TLPD AFT-10c	Artefact
52-2-3831	Cleveland Road FT 1	Aboriginal Ceremony and Dreaming
52-2-3832	Cleveland Road FT 2	Aboriginal Ceremony and Dreaming
52-5-0642	Gilba Road 1	Artefact
52-5-0643	Gilba Road 2 Fill	Artefact
52-5-0823	Yallah to Oak Flats PAD 8 (YTOF PAD 8)	Potential Archaeological Deposit (PAD)
52-2-4209	Fowlers Road 01	Artefact, Potential Archaeological Deposit (PAD)
52-2-4208	Fowlers Road 01	Potential Archaeological Deposit (PAD), Artefact
52-2-1159	Karro Bay Albion Park	Shell, Artefact
52-2-1802	Wollingurry Creek 3	Artefact
52-2-1803	Haywards Bay 2	Shell, Artefact
52-2-1688	WD1-1	Artefact
52-2-1809	Wollingurry Ck 2	Artefact
52-2-1810	Wollingurry Ck 1	Artefact
52-5-0433	West Dapto Release Area PAD	Potential Archaeological Deposit (PAD), Artefact
52-5-0527	Wyndarra Way Isolated Find 1	Artefact
48-5-0065	Haywards Bay 2 (see site number 52-2-1803)	Potential Archaeological Deposit (PAD)
48-5-0066	Woolingurry Creek 1 (same as 52-2-1810)	Stone Arrangement
48-5-0067	Wollingurry Creek 2 (same as 52-2-1809)	Artefact
48-5-0068	Wollingurry Creek 3 (see site number 52-2- 1802)	Artefact
52-5-0532	WWIF1 (Wyndarra Way Isolated Find 1)	Artefact
48-5-0126	Tallawarra Point 1	Artefact
48-5-0127	Tallawarra Power Station Midden	Artefact
52-5-0766	AHUGC001	Shell
52-5-0791	YTOF AS 7	Artefact



AHIMS site no.	Site name	Site type
52-5-0763	Yallah to Oak Flats AS 2	Artefact
52-5-0409	Test Pitting Area 20	Artefact
52-5-0492	WDRA_AX_36	Artefact
52-5-0481	Larkins Lane Site 8 (LLS8)	Artefact, Shell
52-5-0482	Larkins Lane Site 7 (LLS7)	Artefact, Shell
52-5-0483	WDRA_AS_10 same as 52-5-0513	Artefact
52-5-0484	WDRA_AS_09 same as 52-5-0512	Artefact
52-5-0507	WDRA_AX_02	Artefact
52-5-0478	Larkins Lane Site 6 (LLS6)	Artefact
52-5-0479	Larkins Lane Site 9 (LLS9)	Shell
52-5-0480	Larkins Lane Site 10 (LLS10)	Artefact
52-5-0512	WDR_AS_09 same as 52-5-0484	Artefact
52-5-0513	WDR_AS_10 same as 52-5-0483	Artefact
52-5-0473	Larkins Lane site 1 (LLS1)	Artefact
52-5-0474	Larkins Lane Site 2 (LLS2)	Shell
52-5-0475	Larkins Lane Site 3 (LLS3)	Shell
52-5-0476	Larkins Lane Site 4 (LLS4)	Shell
52-5-0477	Larkins Lane Site 5 (LLS5)	Shell
52-5-0471	Tallawarra Pipeline 1	Artefact
52-5-0472	Tallawarra Pipeline 2	Artefact
52-5-0500	WDRA_AX_27	Artefact
52-5-0501	WDRA_AX_28	Artefact
52-2-3765	Cleveland Road PAD 3	Potential Archaeological Deposit (PAD)
52-5-0585	Cleveland Road PAD 4	Potential Archaeological Deposit (PAD)
52-5-0586	Cleveland Road PAD-4	Potential Archaeological Deposit (PAD)
52-5-0583	Cleveland Road PAD 1	Potential Archaeological Deposit (PAD)
52-5-0584	Cleveland Road PAD 2	Potential Archaeological Deposit (PAD)