

Project Number: HN001046-C



ABORIGINAL CULTURAL HERITAGE ASSESSMENT REPORT WITH TEST EXCAVATION FOR STAGE 1 OF THE DEVELOPMENT ONLY – 559 ANAMBAH ROAD, GOSFORTH

FINAL 15/09/2025

REPORT TO: THIRD.I ANAMBAH PTY LTD C/- VARA CONSULTING
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Executive Summary

Heritage Now Pty Ltd was engaged by Vara Consulting and Barr Planning (on behalf of Third.i Anambah Pty Ltd) to provide an Aboriginal Cultural Heritage Assessment and Test Excavation Report (Stage 1 only) in relation to a Development Application being prepared for a residential development at 559 Anambah Road, Gosforth. The proposal includes the residential development, as well as a proposed access road. The whole of the development area has been surveyed, however, the test excavation has been undertaken for Stage 1 only, as this is the first stage to be developed for residential lots.

The proposed residential development is located at 559 Anambah Road, 5.5km north-west of the centre of Rutherford, in the Maitland Local Government Area. The proposed new access road (River Road) is located immediately south of the residential development within a public road reserve, extending for 2.5 km to the existing River Road residential area in Windella.

This proposed residential development portion of the Project Area was surveyed in December 2023 by Heritage Now and Mindaribba Local Aboriginal Land Council. This survey identified three artefact sites along the creek terrace of a first order drainage line which runs through the Project Area. As a result, the entire creek terrace was identified as a sensitive landform and an area of Potential Archaeological Deposit.

A subsequent survey was undertaken in July 2024 by Heritage Now and Mindaribba Local Aboriginal Land Council for the proposed River Road Access Route. There are several previously recorded sites south of the Project Area. AHIMS 37-6-3568 has surface artefacts and Potential Archaeological Deposit which partially overlaps the road corridor. AHIMS 37-6-3555 is outside of the road corridor. No new sites were identified in the River Road Access Route.

Archaeological test excavation of the portion of the Potential Archaeological Deposit (registered as AHIMS 37-6-4446) within the proposed Stage 1 works area was completed by Heritage Now in May 2025 with representatives from Culturally Aware, Gomeroi Namoi, Gomery Cultural Consultants and A1 Indigenous. The test excavation was limited to the Stage 1 portion of the development as this is the first stage to be developed for residential lots.

Test excavation within the Stage 1 works area confirmed that AHIMS 37-6-4446 contains a low-density artefact scatter (3.09 artefacts per square metre), typical of terraces adjacent to lower order streams in the lower Hunter Valley. It is likely that this artefact scatter continues along the remainder of the creek line, and will likely be impacted by later proposed stages of development.

This report includes an AHIP methodology for Stage 1 activities, with further AHIP applications to be lodged according to the development staging.

Heritage Now provides the following recommendations, separated into Stage 1, Future Stages and General Recommendations:

Recommendations for Stage 1

AHIMS 37-6-4446

Anambah Road Potential Archaeological Deposit

The area of Potential Archaeological Deposit will be impacted by the residential development. Archaeological testing within the Stage 1 boundary has been completed, which identified a low-density artefact scatter. An Aboriginal Heritage Impact Permit for the Stage

Stage 1 portion only	1 works is required prior to the commencement of ground disturbing works. Based on the results of the test excavation, no further archaeological investigation of the Potential Archaeological Deposit within the Stage 1 works area is warranted. However, community collection is to be undertaken once vegetation has been cleared in this area, but before commencement of construction excavation.
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Recommendations for Future Stages including River Road Access Route

AHIMS Site	Recommendations
AHIMS 37-6-4425 Anambah AFT-01	The surface artefacts are within the riparian zone and are at risk of impact from re-vegetation and stabilisation works to the riparian corridor. An exclusion zone is to be established around the artefact sites prior to the commencement of ground disturbing works, to reduce inadvertent impacts to sites. If sites cannot be avoided, then an Aboriginal Heritage Impact Permit for the collection of the surface artefacts is required, and no ground disturbing works are to undertaken in these areas without further archaeological investigation, as per the below recommendation.
AHIMS 37-6-4428 Anambah AFT-02	
AHIMS 37-6-4427 Anambah AFT-03	
AHIMS 37-6-4446 Anambah Road Potential Archaeological Deposit	Archaeological testing will be required prior to any ground disturbance beyond the Stage 1 works AHIP boundary.
AHIMS 37-6-3568 Anambah SAC 11 and Potential Archaeological Deposit 27	The area of Potential Archaeological Deposit partially extends into the River Road Access Route. It can likely be avoided by the roadworks, but if it cannot be avoided, then an Aboriginal Heritage Impact Permit for community collection and salvage within the Project Area is required.
AHIMS 37-6-3555 Anambah IF 8 and Potential Archaeological Deposit 23	The surface artefacts and Potential Archaeological Deposit are outside the River Road Access Route and will not be directly impacted by development. The current fence line needs to remain in place to avoid the risk of inadvertent impacts. If the fence needs to be removed during works than an exclusion zone will need to be established.

General Recommendations

All Sites General mitigation measures	All Aboriginal sites within the residential development and access road are to be clearly marked on all relevant construction drawings, along with buffers and fencing, as relevant. All on-site personnel are to be made aware of their obligations under the <i>National Parks and Wildlife Act 1974</i> . This includes protection of Aboriginal sites and the reporting of any new, or suspected, Aboriginal heritage sites. This may be done through an on-site induction or other suitable format.
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Acronyms and Definitions

Acronym/Term	Definition
Aboriginal object	Aboriginal object means any deposit, object or material evidence (not being a handicraft made for sale) relating to the Aboriginal habitation of the area that comprises New South Wales, being habitation before or concurrent with (or both) the occupation of that area by persons of non-Aboriginal extraction, and includes Aboriginal remains (as per <i>NPW Act 1974</i>).
Aboriginal place	Any place declared to be an Aboriginal place under Section 84 of the NPW Act.
ACHA	Aboriginal Cultural Heritage Assessment
AHD	Australian Height Datum
AHIMS	Aboriginal Heritage Information Management System (register for Aboriginal sites in NSW)
AHIP	Aboriginal Heritage Impact Permit (as per NPW Act 1974)
AR	Archaeological Report
A Horizon	The top layer of mineral soil in a soil profile. It is usually broken into A ₁ and A ₂ soils, with the former tending to have a relatively high dark organic content, while the latter is paler.
B Horizon	The B horizon underlies the A horizon of a soil profile, and is generally a high-clay content soil.
BP	Before Present
DCS	NSW Department of Customer Service
DECCW	Department of Environment, Climate Change and Water, NSW (became the Office of Environment and Heritage in 2011, a role now assumed by Heritage NSW).
EP&A Act	Environmental Planning and Assessment Act (1979)
ESD	Ecologically Sustainable Development
Ex situ	At a location that is different from the original location. Often refers to conserving Aboriginal objects at a location different from its original location.
FGS	Fine Grained Silicious
GDA	Geocentric Datum of Australia
HLRV	Historical Land Records Viewer
Holocene	Geological epoch (period) typically defined as the time period that commenced approximately 11,700 years ago and is the current period of geological time. This period is generally warmer and wetter than the preceding Pleistocene period.

Acronym/Term	Definition
IMT	Indurated Mudstone/Tuff
In situ	In situ, Latin for “in the place”, refers to an artefact that has not been moved from its original resting place or the place where it was deposited.
LALC	Local Aboriginal Land Council (Land Council under the Aboriginal Land Rights Act 1983)
LEP	Local Environmental Plan
LGA	Local Government Area
OEH	Office of Environment and Heritage, NSW (Now Heritage NSW)
ORALRA	Office of the Registrar. Aboriginal Land Rights Act (1983)
Non-perennial	In terms of waterways, it means a waterway that is usually partially or fully dry for part of the year.
NPW Act	National Parks and Wildlife Act 1974
NSW	New South Wales
PAD	Potential Archaeological Deposit
Perennial	In terms of waterway, it means a waterway that has year-round water.
Pleistocene	Geological epoch (period) is typically defined as the time period that commenced approximately 2.6 million years ago and lasted until approximately 11,700 years ago. This period spans the world's recent period of repeated glaciations. The late Pleistocene, in which humans began occupying Australia, is generally colder and dryer than the Holocene.
RAPs	Registered Aboriginal Parties (Aboriginal organisations and individuals who were consulted for the Project following Aboriginal Cultural Heritage Consultation Requirements for Proponents)
SCP	Spatial Collaboration Portal (Government platform for delivery of NSW spatial datasets provided by DCS Spatial Services)
SU	Survey Unit

Version Control

Version	Revision Description	Reviewed by	Date	Approved by	Date Approved
1	Draft for client	Jenna Weston, Heritage Now Principal Heritage Consultant	27/06/2025	Tessa Boer-Mah, Heritage Now Principal Heritage Consultant	30/06/2025
2	Final	Crystal Phillips Heritage Now Senior Heritage Consultant	12/09/2025	Tessa Boer-Mah, Heritage Now Principal Heritage Consultant	12/09/2025

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1 Introduction

Heritage Now Pty Ltd (Heritage Now) was engaged by Vara Consulting and Barr Planning (on behalf of Third.i Anambah Pty Ltd) to provide an Aboriginal Cultural Heritage Assessment and Test Excavation Report in relation to a Development Application (DA) being prepared for a residential development at 559 Anambah Road, Gosforth. The proposal includes the residential development, as well as a proposed access road. The test excavation has been undertaken for Stage 1 of the proposed residential development.

1.1 Project Area

The Project Area is located c.5.5km north-west of the centre of Rutherford, c.4.3km to the north-east of Lochinvar and c.9.5km north-west of the centre of Maitland (Figure 1). The Hunter River is located c.820m to the north-west. The development sits in the Maitland Local Government Area (LGA) and within the statutory boundaries of the Mindaribba Local Aboriginal Land Council (LALC). The project address for the residential development area is 559 Anambah Road, Gosforth, which encompasses Lot 55 DP874170 and Lot 177 DP874171 (Figure 2). This section of the Project Area is c.69.6ha in size.

The Project Area also includes a planned access road (Figure 2), which runs through the middle of the residential area within an existing public road reserve and along what is currently an existing trackway, ultimately connecting the development to River Road in Windella. This road development section of the project extends for c.2.5km from the southern edge of the residential area to a connection with the northern end of River Road to the south. The Road corridor is 20m wide and covers an area of c.5.38ha (beyond the residential development area).

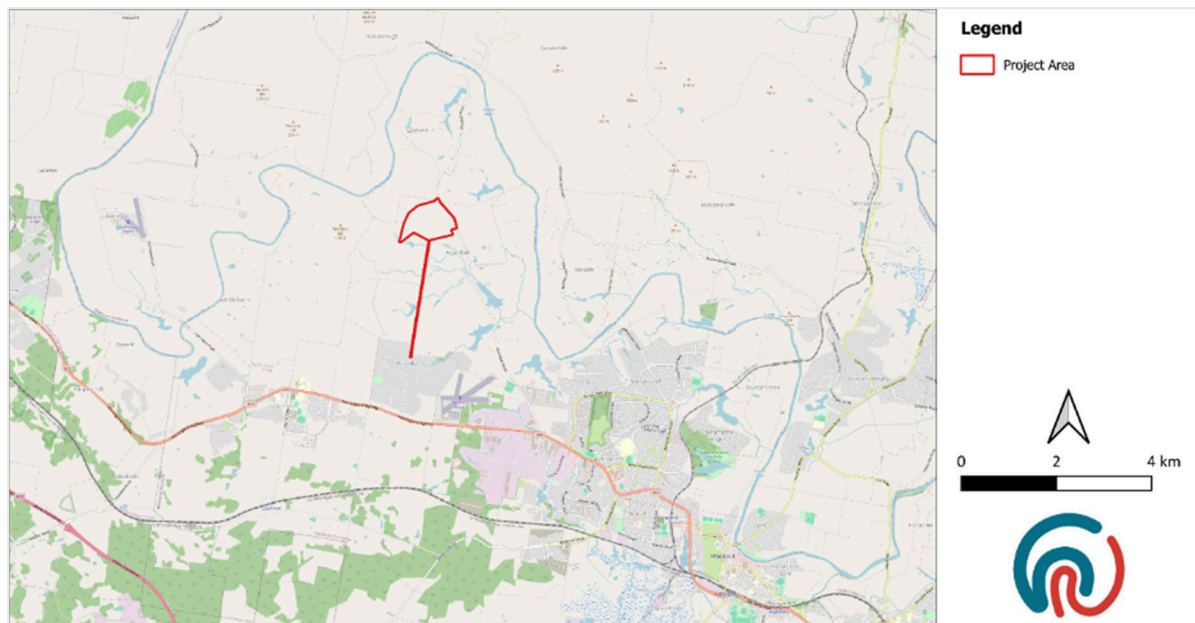


Figure 1. The Project Area in a regional context. (Source: Open Street Map with Heritage Now additions)

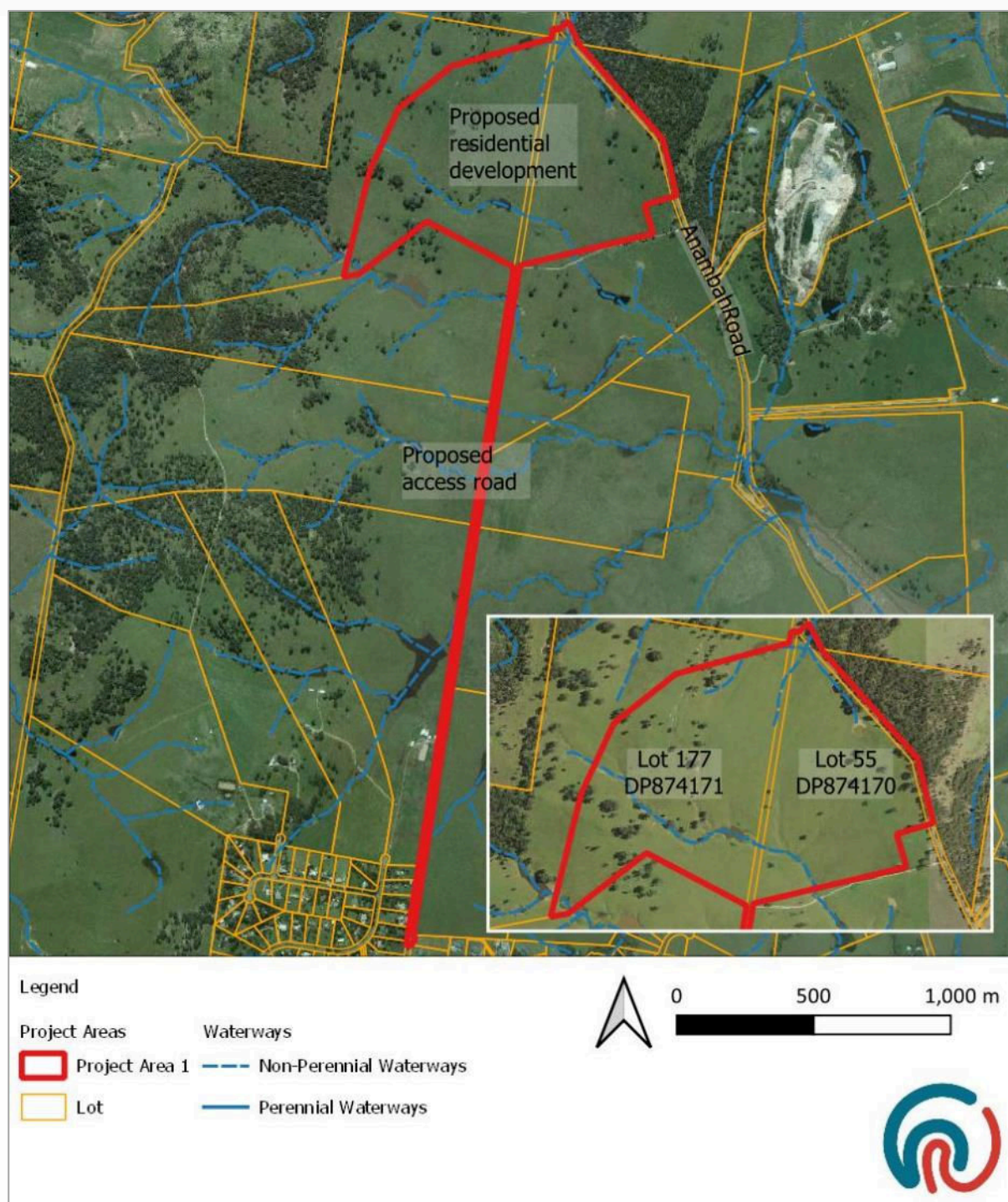


Figure 2. The Project Area showing the proposed residential development and access road areas. (Source: SCP with Heritage Now additions)

1.2 Overview of Project Proposal

The Project Area is proposed for a staged subdivision into approximately 900 residential allotments and open space areas, which will eventually lead to ground disturbing activities. The development will also include a new access road, connecting the new development to River Road. All of these

elements of work will involve vegetation clearance, landscaping, and cut and fill associated with construction and the installations of services, roads, and stormwater.

1.3 Project Background

This ACHA was originally prepared as part of a DA submission for a proposed residential subdivision and access road. The proposed residential subdivision portion of the Project Area was surveyed in December 2023 by Heritage Now and Mindaribba LALC. This survey identified three artefact sites along the creek terrace of a first order drainage line which runs through the Project Area. As a result, the entire creek terrace was identified as a sensitive landform and an area of Potential Archaeological Deposit (PAD), registered as AHIMS 37-6-4446.

A subsequent survey was undertaken in July 2024 by Heritage Now and Mindaribba LALC for the proposed River Road Access Route. There are several previously recorded sites south of the Project Area. AHIMS 37-6-3568 comprises surface artefacts and PAD; the PAD partially overlaps the road corridor. AHIMS 37-6-3555 (a PAD) is outside of the road corridor. No new sites were identified in the River Road Access Route.

Heritage NSW issued a Request for Further Information following the proponent's DA submission (DOC24/846850). This included a request for the results of a test excavation. The test excavation was undertaken in May 2025 for the portion of AHIMS 37-6-4446 within the Stage 1 works boundary. This report is an updated version of the ACHA, with the results of the test excavation.

1.4 Project Methodology

This ACHA report was prepared in accordance with, but not limited to, the *National Parks and Wildlife Act 1974*, the *National Parks and Wildlife Regulation 2019*, the *Environmental Planning and Assessment Act 1979*, Maitland Local Environmental Plan, and the State Environmental Planning Policies. The following guidelines and codes of practice have been used in preparing this ACHA report:

- *Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW* (OEH 2011)
- *Aboriginal Cultural Heritage Consultation Requirements for Proponents* (DECCW 2010a).
- *Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW* (DECCW 2010b)

This report will be used as supporting documentation for an Aboriginal Heritage Impact Permit (AHIP) application. Key information required to meet this objective is shown in Table 1.

Table 1. The location in the report of key information required as part of the ACHA process and for AHIP determinations

ACHA and AHIP Requirements	Report Section/Location
Introduction	
Description of the proposed activity.	Section 8.1
Description of the area where the proposed activities are to be undertaken, including Lot, DP, zone and parish, and any exclusion areas.	Section 1.1

ACHA and AHIP Requirements	Report Section/Location
Identify who owns the copyright to the report, who prepared and contributed to the report and archaeological investigations, and the circumstances under which the report was prepared.	Section 0
Legislative Context	
Outline of the relevant statutory controls, including the development context applicable to the site.	Section 2
Aboriginal Consultation	
Document consultation with Aboriginal people regarding the Aboriginal objects or Aboriginal place that are the subject of the permit, including submissions made by Aboriginal people, a list of the registered Aboriginal parties, and copies of the submissions received, issued raised and responses.	Section 3
Review of Background Information	
Review the physical setting or landscape (landscape context) of the Project Area, considering (at least) landforms, geomorphic activity, soils, and land use history.	Section 4.1
Review and synthesis of known archaeology and ethnohistory in the region, including an examination of recorded AHIMS sites within and around the Project Area.	Section 4.2
Map showing location of previously recorded sites and, where available, areas of previous surveys.	Section 4.2.3 – Section 4.2.4
Summarise and discuss the local and regional character of Aboriginal land use and its material traces.	Section 4.2.5
Predict the nature and distribution of evidence.	Section 4.2.5
Archaeological Survey	
Describe the applied survey sampling strategy.	Section 5.1
Analyse survey coverage.	Section 5.1
Present survey results.	Section 5.1
Significance Assessment	
A statement of significance of the Aboriginal objects or Aboriginal places that are the subject of the permit.	Section 6
Map of the Aboriginal cultural heritage values present, and the elements of the landscape associated with those values.	Section 6
Impact Assessment and Mitigation	
Description of actual or likely harm to the Aboriginal objects or Aboriginal place that is the subject of the permit.	Section 8
Indication of whether any other AHIPs have been issued or refused relating to the Project Area.	Section 8.4.1

ACHA and AHIP Requirements	Report Section/Location
A clear statement justifying the objectives of the proposed activity.	Section 8.1
Explanation of all alternatives considered.	Section 8.1
Consideration of ecologically sustainable development (ESD), including cumulative impacts.	Section 8.5
Discussion of considered alternatives to avoid or minimise harm.	Section 8.3
Practical measures that may be taken to avoid or mitigate any actual or likely harm to the Aboriginal objects or Aboriginal place that are the subject of the permit.	Section 8.3
Identification of restricted or confidential information.	Section 8.5.6
Indicate the proposed term of the AHIP.	Section 8.4.1
Topographic map of Project Area showing land to which AHIP applies, showing clear cadastre information including lot and DP, local government area, parish and zone (as applicable).	Section 8.4.1
Conclusions and Recommendations	
Clear and succinct summary of what is being proposed and all commitments made in the report.	Section 9
Other Supporting AHIP Documents	
AHIP application form	AHIP application package
Copy of development consent or other approval	AHIP application package
AHIP area in JPEG	AHIP application package
AHIP area as GIS shapefile (either ESRI Shapefile; ESRI File geodatabase; Map info TAB file; KML)	AHIP application package
ACHAR cover sheet, with signed indemnity	AHIP application package; sent to AHIMS separately.

1.5 Authorship and Copyright

This report was produced by the Heritage Now team. The report was written by Crystal Phillips (Senior Heritage Consultant) with input from Jacqueline Chua (Heritage Officer). Technical input and quality review was provided by Jenna Weston (Principal Heritage Consultant) and Tessa Boer-Mah (Principal Heritage Consultant).

Heritage Now Pty Ltd retains the copyright of this report.

2 Legislative Context

This section provides an outline of the Acts, Regulations and guidelines under which this assessment was undertaken. It is for information purposes only and should not be taken as legal advice.

2.1 Native Title Act 1993 (Cth)

The *Native Title Act 1993* recognises and protects the native title rights and interests of Aboriginal people and Torres Strait Islanders. The Act established the National Native Title Tribunal as an independent body to administer native title claims. It also authorises the making and registration of Indigenous Land Use Agreements about the use and management of land or waters.

A search of the National Native Title Tribunal registers of native title information was undertaken on 12 April 2024. There are no relevant entries for the Project Area on the Register of Native Title Claims, National Native Title Register, or Register of Indigenous Land Use Agreements.

2.2 National Parks and Wildlife Act 1974

This Act contains the provisions for protecting Aboriginal objects in NSW. Aboriginal objects are protected regardless of whether they are in their original context (location) or not, and it is an offence to harm an Aboriginal object regardless of whether you know it is an Aboriginal object or not. Protection under Section 86 of the Act is as follows:

- s86(1) A person must not harm or desecrate an object that the person knows is an Aboriginal object.
- s86(2) A person must not harm an Aboriginal object.
- s86(3) A person must not harm or desecrate an Aboriginal place.

Penalties for harming Aboriginal objects or places range from \$80,000–\$800,000 for individuals and \$330,000–\$1,650,000 for corporations, and may also include imprisonment. Under Section 87, there are certain defences from prosecution. These include that harm was authorised under an Aboriginal Heritage Impact Permit (AHIP) and actions were in accordance with the AHIP; that due diligence was exercised in relation to Aboriginal object/s; and/or that the activity was classified as low impact.

Under Section 89A, an Aboriginal object must be reported to Heritage NSW within a reasonable timeframe unless they have previously been recorded and submitted to the Aboriginal Heritage Information Management System (AHIMS). Penalties for failure to report an Aboriginal object start from \$16,500 for individuals and \$33,000 for corporations.

2.3 National Parks and Wildlife Regulations 2019

This Regulation provides a framework for exercising due diligence and outlines codes of practice in respect to Aboriginal objects (Section 57), as well as defences for carrying out certain low-impact activities (Section 58). The Regulation also outlines requirements for Aboriginal consultation (Section 60), particularly in relation to an Aboriginal Heritage Impact Permit. Under the Regulation, the following codes of practice are recognised, amongst others:

- *Due Diligence Code of Practice for the Protection of Aboriginal Objects in NSW* (DECCW 2010c),

- *NSW Minerals Industry Due Diligence Code of Practice for the Protection of Aboriginal Objects* (NSW Minerals Council 2010), and
- *Code of Practice for Archaeological Investigation of Aboriginal objects in NSW* (DECCW 2010b).

2.4 Aboriginal Land Rights Act 1983

This Act provides land rights to Aboriginal people through the Local Aboriginal Land Councils. It details a process for claiming unused Crown land in NSW and for enabling land use. It also allows for agreements to permit traditional hunting, fishing and gathering. The Office of the Registrar, *Aboriginal Land Rights Act 1983* (NSW) (ORALRA), registers land claims and maintains the Register of Aboriginal Land Claims and Register of Aboriginal Owners.

Elements of the Project Areas are designated as Crown Road Reserve land, the current use of one element (the interchange) and planned use of the other (as an access road) makes a claim against the land under this act highly unlikely.

2.5 Environmental Planning and Assessment Act 1979

The *Environmental Planning and Assessment Act 1979* (EP&A Act) provides triggers for undertaking environmental and heritage assessments as part of the wider land-use planning framework. This Act has three main parts of direct relevance to Aboriginal cultural heritage. Namely, Part 3 which governs the preparation of planning instruments, Part 4 which relates to development assessment provisions for local government (consent) authorities and Part 5 which relates to activity approvals by governing (determining) authorities. Planning decisions within Local Government Areas (LGAs) are guided by Local Environmental Plans (LEPs). Each LGA is required to develop and maintain an LEP that includes Aboriginal and historical heritage items which are protected under the EP&A Act and the NPW Act.

2.6 Maitland Local Environmental Plan (LEP) 2011

The Maitland LEP (2011) requires development consent to demolish, disturb, excavate or develop land on which an Aboriginal object is located or that is within an Aboriginal place of significance. Council must consider the effect of a proposal on an Aboriginal Place and any Aboriginal object located within an area of works. Council must inform the local Aboriginal community about the application where impacts to Aboriginal cultural heritage may occur. Protected heritage under the LEP is listed in Schedule 5. There are no Aboriginal sites in the Project Area listed on the LEP.

3 Aboriginal Consultation

This section documents the Aboriginal Consultation that was undertaken for the project in accordance with the *Aboriginal Cultural Heritage Consultation Requirements for Proponents* (OEH, formerly DECCW 2010b) and will be referred to as the 'Aboriginal Consultation Requirements'. The four stages of Aboriginal consultation were undertaken, and additional documentation is available in Appendix 1.

3.1 Stage 1

In accordance with Stage 1 of the Aboriginal Consultation Requirements, requests for information on knowledge holders were sent to Heritage NSW, Mindaribba LALC, the Registrar of Aboriginal Owners, Native Title Services, Maitland City Council and the Hunter office of Local Land Services. The National Native Title Tribunal only accepts searches of Crown land for Aboriginal knowledge holders. There is no Crown land in the Project Area.

Based on information collected from government agencies, expressions of interest were sent to the knowledge holders inviting them to become a Registered Aboriginal Party for the project on 7 May 2024.

A public notice was placed in the Maitland Mercury local newspaper on 26 April 2024.

As a result of the expressions of interest invitations and the public notice, 17 Aboriginal representatives nominated to become Registered Aboriginal Parties for the Project (Table 2).

Table 2. List of RAPs consulted for the Project.

Organisation/Individual	Representative Name/s
A1 Indigenous Services	Carolyn Hickey
Aliera French Trading	Aliera French
Culturally Aware	Tracey Skene
D F T V Enterprises	Derrick Vale Snr
Didge Ngunawal Clan	Paul Boyd
Gomeroi Namoi	Steven Talbot
Gomery Cultural Consultants	David Horton
Guthers Aboriginal Corporation	Trystan Treloar
Hunter Traditional Owner	Paulette Ryan
Individual	Clarissa Swan
Kawul Pty Ltd Trading as Wonn1 Sites	Arthur Fletcher
Long Gully Cultural Services	Ethan Trewlynn
Mindaribba LALC	Tara Dever

Murra Bidgee Mullangari Aboriginal Corporation	Darleen Johnson-Carroll
Ungooroo Aboriginal Corporation	Estelle Germishuizen
Wallangan Cultural Services	Maree Waugh
Yarrawalk, on behalf of the Wonnarua PBC	Scott Franks

3.2 Stages 2 and 3 (ACHA including Survey)

In accordance with Stages 2 and 3 of the consultation process, details of the project and the assessment methodology were sent out to the RAPs and opportunities for feedback were provided, as summarised in Table 3. Opportunities for feedback were also provided during the fieldwork.

Table 3. Responses to assessment methodology and project information from RAPs, and responses (when relevant) by Heritage Now.

Organisation/Individual and representative name	Comment	Heritage Now response
Long Gully Cultural Services - Ethan Trewlynn	24/5/2024 – Email – Agrees with methodology	Acknowledged
Didge Ngunawal Clan – Paul Boyd	24/5/2024 – Email – Agrees with methodology	Acknowledged
Culturally Aware - Tracey Skene	27/5/2024 – Email – Agrees with methodology	Acknowledged
Murra Bidgee Mullangari Aboriginal Corporation - Darleen Johnson-Carroll	3/6/2024 – Email – Agrees with methodology	Acknowledged
A1 Indigenous Services - Carolyn Hickey	10/6/2024 – Email – Agrees with methodology	Acknowledged

3.3 Stage 4 (ACHA including Survey)

The draft report was sent to the Registered Aboriginal Parties and 28 days provided for comment, as summarised in Table 4.

Table 4. Responses to draft ACHA report from RAPs, and responses (when relevant) by Heritage Now.

Organisation/Individual and representative name	Comment	Heritage Now response
Didge Ngunawal Clan – Paul Boyd	27/8/2024 – Phone – Agrees with report recommendations	Acknowledged
Kawul Pty Ltd Trading as Wonn1 Sites – Arthur Fletcher	27/8/2024 – Phone – Agrees with report recommendations	Acknowledged
Murra Bidgee Mullangari Aboriginal Corporation - Darleen Johnson-Carroll	27/8/2024 – Phone – Agrees with report recommendations	Acknowledged

Yarrowalk, on behalf of the Wonnarua PBC – Scott Franks	27/8/2024 – Phone – Agrees with report recommendations	Acknowledged
Long Gully Cultural Services - Ethan Trewlynn	28/8/2024 – Phone – Recommends doing some field work to investigate the area due to its location	Fieldwork (survey) has been undertaken and test excavation is recommended

3.4 Stages 2 and 3 (Test Excavation)

The test excavation methodology and project information was sent out to the RAPs and opportunities for feedback were provided, as summarised in Table 5. Opportunities for feedback were also provided during the fieldwork.

Table 5. Responses to test excavation methodology and project information from RAPs, and responses (when relevant) by Heritage Now.

Organisation/Individual and representative name	Comment	Heritage Now Response
Dave Horton Gomery Cultural Consultants	17/1/2024 – Email – Agrees with the methodology. Asked if there would be expansion to 1m by 1m pits if high numbers of artefacts are found.	The methodology allows for some additional in-fill pits or expansions during test excavation. If a high density of artefacts is found then the site may be subject to further investigation through a salvage excavation.
Paul Boyd Didge Ngunawal Clan	24/5/2025 – Email – Agrees with methodology	Acknowledged
Ethan Trelwynn Long Gully Cultural Consultants	24/5/2024 Email – Agrees with methodology	Acknowledged
Carolyn Hickey A1 Indigenous	27/5/2024 Email – Agrees with methodology	Acknowledged
Tracey Skene Culturally Aware	3/6/2024 Email – Agrees with methodology	Acknowledged
Darleen Carroll-Johnson Murra Bidgee Mullangari Aboriginal Corporation	10/6/2024 Email – Agrees with methodology	Acknowledged

3.5 Stage 4 (Test Excavation)

The draft report was sent to the Registered Aboriginal Parties and 28 days provided for comment.

Table 6. Responses to draft ACHA with Test Excavation results from RAPs, and responses (when relevant) by Heritage Now.

Organisation/Individual and representative name	Comment	Heritage Now Response
Dave Horton Gomery Cultural Consultants	15/08/2025 Email – “if artefacts can't be avoided there should be community collection, and next stage is there going to be more test excavation carried out, on impacted areas.”	“yes, we have recommended additional testing for subsequent stages and community collection for surface artefacts that cannot be avoided”
Darleen Carroll-Johnson Murra Bidgee Mullangari Aboriginal Corporation	28/8/2025 Email – Agrees with recommendation	Acknowledged

3.6 Summary

As a result of the Aboriginal consultation process 17 Registered Aboriginal Parties were identified. Feedback from the Aboriginal consultation was incorporated into the assessment of significance and the development of heritage management and mitigation strategies for the Project.

4 Environmental and Heritage Context

This section outlines the environmental and heritage context for the Project Area.

4.1 Environmental Context

This section provides the environmental context for the assessment of past Aboriginal occupation in the Project Area, focusing on whether there were any landscape features that were likely to indicate the presence of Aboriginal objects (DECCW 2010c, 10).

4.1.1 Geology and Soils

The underlying geology can provide information on stone resources available to Aboriginal people. Soil characteristics can provide information on potential archaeological deposits.

As shown in (Figure 3), the Project Area is primarily within the Lochinvar Formation of the Dalwood Group, consisting of basalt, siltstone, and sandstone; while a portion in the north-west area is on carboniferous undifferentiated geology composed of tuff and ignimbrite interbedded with conglomerate, sandstone and shale. The north-west corner of the Project Area is located over an area of Carboniferous, undifferentiated, tuff and ignimbrite interbedded with conglomerate, sandstone and shale (Hawley, Glen, and Baker 1995).

The most common stone artefact materials known to have been used by Aboriginal people of the Hunter Valley in the past include silcrete, indurated mudstone/ tuff (IMT), fine grained silicious (FGS), chert and quartz. As some silcrete outcrops appear to occur naturally within part of the Project Area, it is possible that any artefacts of this material present within the Project Area, may have been sourced and produced locally. Suitable quality sandstone exposures in this region could also have provided natural exposures suitable for grinding axes and other tools, whilst outcrops of this may have acted as shelter sites.

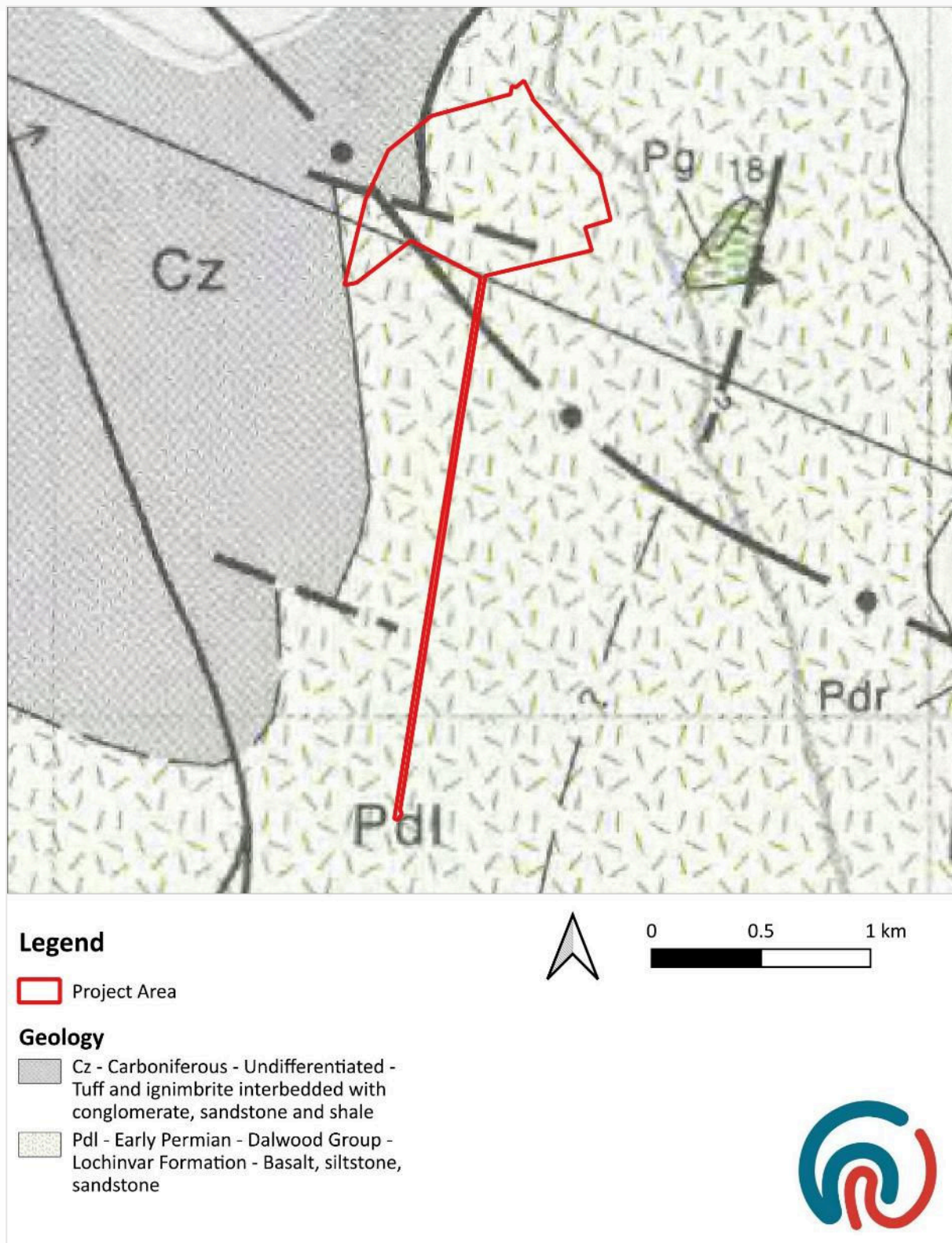


Figure 3. Geological landscape of the Project Area and surrounding region. (Source: Newcastle Coalfield 100K Geological Sheet and SIX Maps aerial with Heritage Now additions)

All of the residential development section of the Project Area, and the northern part of the proposed new road, are located on the erosional Rothbury Soil Landscape (Figure 4) that is typically found over undulating and rolling low hills south and south-east of Singleton. Locally, the upper slope sections of the Project Area are likely to consist of up to 10cm of a dark brown, fine sandy loam topsoil (A₁ horizon) overlying up to 20cm of brown fine sandy loam to clayey loam (A₂ horizon), over B Horizon clay. The lower slope sections of the Project Area are likely to consist of up to 15cm of dull yellowish brown loamy sand (A horizon), over B Horizon clay.

The southern half of the proposed new road lies over the erosional Branxton Soil Landscapes. This is commonly found across undulating low hills and rises with many small creeks flats. Locally, the landscape is likely to consist of c.25cm of dark reddish brown, fine sandy loam, topsoil (A₂ horizon) overlying a reddish brown, medium clay with a strong structure (B horizon).

All of these landscapes are examples of duplex soil landscapes. Archaeological deposits within duplex soils are generally limited to A horizon soils, as B horizon soils often predate human occupation (Hughes, Spooner, and Questiaux 2014, 36). Furthermore, B horizon clay soils (or bedrock) form a compact barrier through which artefacts typically do not penetrate. Therefore, if these soils have not been subject to erosion or stripping, and depending on the landform upon which they are located and in consideration of surrounding archaeological indicators, soils in the Project Area are predicted to consist of:

- c.15-30cm of potential artefact bearing deposit within the Rothbury Soil Landscape
- c.25cm of potential artefact bearing deposit within the Branxton Soil Landscape

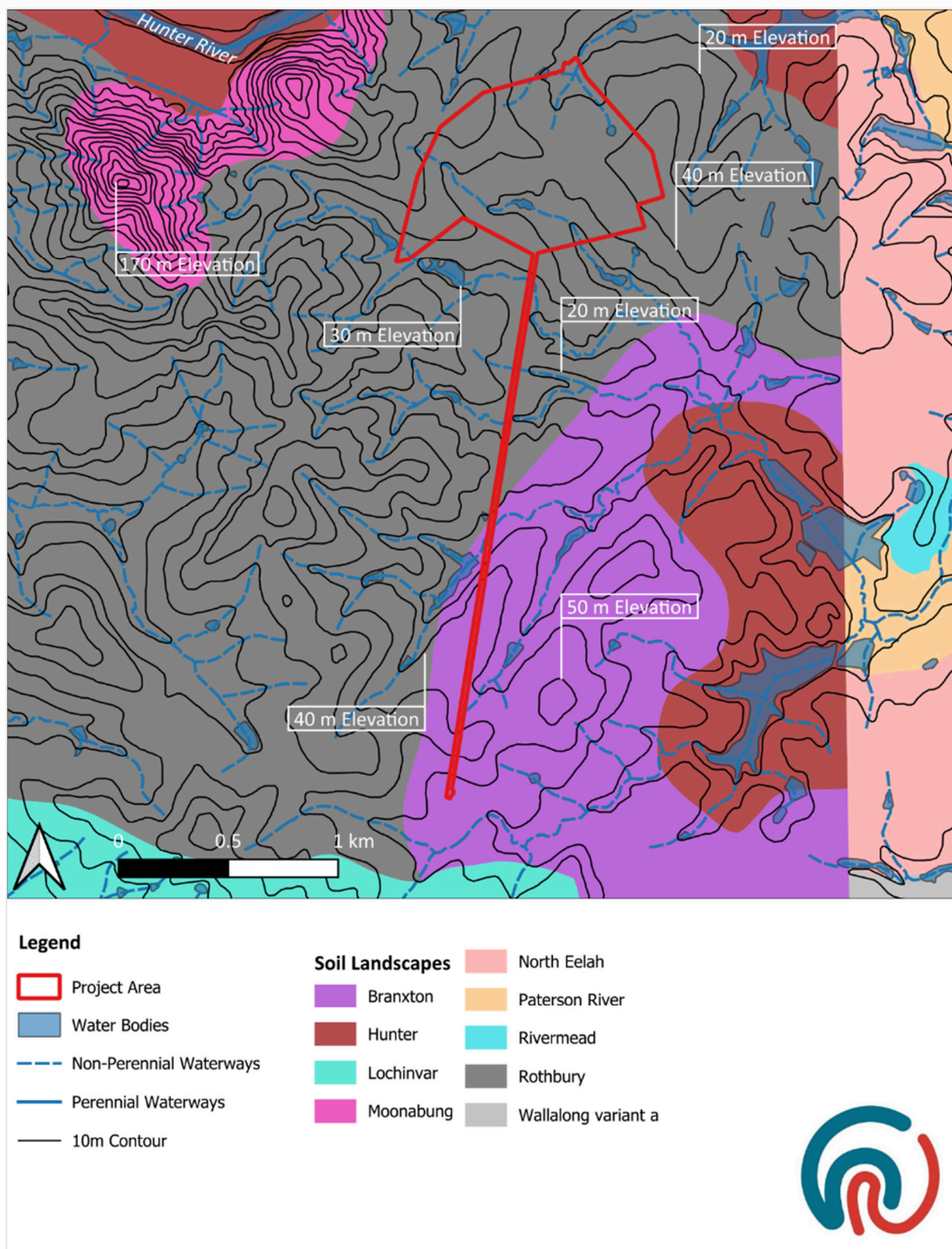


Figure 4. Soil landscape of the Project Area and surrounding region. (Source: Soil Landscapes based on Kovak and Lawrie (1991) topography from NSW SCP and SCP aerial with Heritage Now additions)

4.1.2 Topography, Hydrology and Landforms

Access to fresh water is known as a primary consideration for Aboriginal people when selecting camp site locations. Studies from the Hunter Valley (Kuskie 2015; Kuskie and Kamminga 2000) demonstrate that areas within 300m of wetlands and fresh water are considered to have been ideal locations for camping and focused occupation (i.e. repeated visits, visits of longer duration). Conversely, areas further than 300m from wetlands and/or water sources were outside the primary or secondary resource zones and are likely to only have had low to very low intensity use for hunting and/or gathering during the course of the normal daily round, or for transitory movement. The sensitivity of locations near to waterways, in terms of the preference of such locations to be used for Aboriginal campsites, is reflected in the Due Diligence Code of Practice, which considers areas within 200m of water archaeologically sensitive. Ridge lines, ridge tops, headlands, cliffs, rock shelters and caves are also considered sensitive locations, as per the Due Diligence Code of Practice (DECCW 2010c, 12).

As shown in Figure 4, the residential development portion of the Project Area lies c.800m to the south-east of the Hunter River, which at this point is fresh water (and is fed by freshwater tributaries). This portion of the Project Area contains a slight valley and two ridge lines. The valley runs on a north-west to south-east alignment through the southern section of the Project Area, sloping downwards towards the south-east (from c.50m AHD to c.20m AHD). A first order non-perennial creek flows through this valley, connecting to the Hunter River c.2.6km to the south-east of the Project Area.

To the north of the valley, a moderately steep (south facing) slope ascends, over a distance of c.320m, to a height of c.50m AHD. This high point is part of a ridge line which follows the alignment of the valley floor through the Project Area. This south facing slope is lined with a number of well-established run off channels, which feed the non-perennial creek that flows through the valley. Northward, beyond the ridge line, the ground descends to c.25m AHD over a distance of c.300m, creating a steep slope. Three first order non-perennial water courses flow northwards down this north facing slope. Just beyond the Project Area, these join, forming a second order non-perennial water course which flows into the Hunter River c.1.7km north-east of the Project Area.

South of the valley floor, the ground steeply ascends to a height of c.50m over a distance of c.170m; this high point is part of a second ridge line which follows the alignment of the valley floor through the Project Area. Beyond this ridge line, the ground descends steeply (to c.32m AHD over a distance of c.190m). This leads to the floor of another shallow valley through which a second order non-perennial water course flows. Only a very small part of this second valley floor lies within the Project Area, in its south-west corner.

Ridge lines may have been used as pathway to resources and camp sites, this being a common practice of Aboriginal people in the past. Gentle slopes leading from these ridge lines towards a water source were often also utilised as camp sites. The majority of the valley side slopes within the Project Area could be considered too steep to be desirable as campsite locations. However, elevated areas adjacent to the middle and southern creeks may have been suitable for camping.

The proposed new access road follows an undulating route across the moderately steep slide slopes of four main hills. The route varying in height from 24m AHD towards its southern end, up to 51m AHD toward its northern end. Many of these slopes are bisected by drainage/run off channels and as a result, the northern half of the route of the proposed new road crosses two second order non-

perennial water courses and one first order non-perennial water course. The southern end of the route crosses a slightly more substantial perennial second order stream. All of these water courses flow roughly west to east, ultimately flowing into the Hunter River at a point c.2.4km to the west of the southern end of the proposed new road route. As with the residential area, much of the landscape through which this route runs would have been considered too steep for camping. However gentler areas of topography do exist – typically towards the lower end of the slopes over which this route runs, and often associated with a water course. Such locations may have been considered more suitable for camping.

4.1.3 Flora and Fauna

This section is intended to give a general overview of the flora and fauna that may have been used by Aboriginal people in the past. The information is supplied for understanding the past Aboriginal use of the landscape and is not intended for ecological assessment purposes.

Past Aboriginal people are likely to have encountered vegetation similar to Hunter-Macleay Dry Sclerophyll Forests, Northern Hinterland Wet Sclerophyll Forests and Coastal Valley Grassy Woodlands in and around the Project Area.

Hunter-Macleay Dry Sclerophyll Forests consist of dry open eucalypt forest, including spotted gum, narrow-leaved ironbark, grey box, grey gum, grey ironbark turpentine, silver-stemmed wattle, forest oak, coffee bush, gorse bitter pea, peach heath, large mock-olive, narrow-leaved geebung, muttonwood, yellow burr-daisy, slender tick-trefoil, kidney weed, white root, poison rock fern, barbed wire grass, wiry panic, weeping grass and kangaroo grass.

This vegetation community would have provided a variety of foods and raw materials for Aboriginal occupation in the area. The fruits of plants such as the geebung and coffee bush produce edible fruits, and the timbers of eucalypts could be used to create tools, vessels and canoes (Brayshaw 1987). The gum (kino) of the spotted gum could be used as a pigment, and when mixed in a drinking solution could assist with bladder infections. The nectar of the spotted gum flowers could be used as a sweetener (Caton and Hardwick 2018, 249). The narrow-leaved geebung has edible fruit as well as seeds. The juice and flesh of unripe fruit were used for treating burns, scratches and rashes. The ripe fruit on the ground also attracted possums, bandicoots and wallabies (Caton and Hardwick 2018, 267). The cooked leaves of the poison rock fern could be used to treat parasitic infections and intestinal worms and the leaves could also be made into a poultice for treating eczema and ringworm (Caton and Hardwick 2018, 311).

Common fauna in the area may have included parrots, cockatoos, galahs, flying foxes, bats, possums, wallabies, gliders, reptiles and birds. These faunae could have provided a source of food and their hides could have been used as a resource to make clothing.

Northern Hinterland Wet Sclerophyll Forests consist of tall, open, dry eucalypt forests to 40m with a diverse array of species, an open understorey of both mesophyllous and sclerophyllous shrubs and a continuous grassy groundcover. They occur on moderately fertile soils derived from siltstones and metasediments where mean annual rainfall exceeds 1000mm.

The canopy is dominated by tallowwood, blackbutt, grey gum, grey ironbark, and turpentine. Common shrubs include forest oak present as small trees. Smaller shrubs include coffee bush, dogwood, *Leucopogon lanceolatus*, narrow-leaved orange bark, large mock-olive, white dogwood, narrow-leaved geebung, yellow pittosporum, prickly shaggy pea, elderberry panax, and tree heath.

Common scramblers include giant water vine, *Hibbertia dentata*, *H. scandens* (climbing guinea flower), wonga wonga vine, and sarsaparilla.

Common forbs include *Amperea xiphoclada*, broome spurge, rusty tick-trefoil, slender tick-trefoil, blue flax lily, *Geranium homeanum*, *Glycine clandestina*, white root, *Vernonia cinerea*, bracken. Dense swards of blady grass and *Lomandra longifolia* (spiny-headed mat-rush) may be present.

The Northern Hinterland Wet Sclerophyll Forests would have also provided habitat to a variety of species that could have also provided a food resource to Aboriginal people including a variety of wallabies, possums, bats, birds, and reptiles. Possum fur was also used to create clothing (Solling 2014).

Coastal Valley Grassy Woodlands (Keith 2004) are open forests and woodlands 20 – 35m tall with scattered or clumped shrubs. Dense ground cover contains a diverse range of grasses, scramblers and herbs. Common trees include rough barked apple and forest red gum. Spotted gum, narrow leaved ironbark, narrow leaved stringy bark and grey box also occur. The most common shrub is blackthorn. Others include hickory wattle, black wattle, gorse bitter pes, egg and bacon pea, dogwood, prickly beard heath and white dogwood. Scramblers such as wombat berry may be found. Prostrate forbs species include slender tick-trefoil, kidney weed, native geranium, stinking pennywort, white root. Erect species include common woodruff, blue trumpet, large tick-trefoil, Australian bluebell, and poison rock fern. Dominant tussock grasses include purple wiregrass, threeawn speargrass, barbed wire grass, paddock lovegrass and kangaroo grass.

Some of these species would have been used by Aboriginal people as raw materials for implements and weaving, as well as food and medicine. The hardwoods of eucalypts can be used to create tools such as digging sticks, clubs, throwing spears, shields, and boomerangs as well as vessels for carrying and collecting food (Nash 2004, 7–8). The seed heads of kangaroo grass were collected and used to produce flour to bake into damper (Nash 2004).

Fauna that inhabited these woodlands are likely to have included possums, bats, quolls, wallabies, snakes, and birds. These would have provided local Aboriginal people with food resources as well as hair and skin for clothes.

4.1.4 Land Use

Land is considered disturbed if it has been the subject of human activity that has changed the land's surface, being changes that remain clear and observable. Examples include ploughing, construction of rural infrastructure, roads, trails and tracks, vegetation clearance, construction of buildings, structures and utilities and other impacts involving earthworks (DECCW 2010c, 18).

Early maps of the Parish of Gosforth (1885) show a planned north – south aligned connecting Anambah Road (to the north) with the New England Highway (to the south), running through Windella. This proposed new access road sits along the route of this earlier proposed road, which also bisects the residential development portion of the Project Area (Figure 5). This Road is a designated public road (Road 20.115 wide) known as River Road. However, only the final (southernmost) 1.2km of this road was ever laid as a formal bitumen road (ending in a cul-de-sac), the remaining 3.3km remaining as a semi formal dirt track. The River Road divides a series of plots which run along it on either side (to the east and west of it), four of which sit within the current Project Area. What is now Lot 55 DP874170 is labelled as Lots 8 and 11 (to the east), owned by John K Mackay, and what is now Lot 177 DP874171 is labelled as Lots 9 and 10 (to the west), owned by

Michael Drinan. Winder's Hill, the site of a modified tree (AHIMS 37-6-4248), 1.7km to the west of the Project Area, is also marked on this map.

Historic images date back to 1958, which show that the Project Area was cleared scrub land being used as pasture (Figure 6), which is much as it is today. By 1966, a residence has been constructed to the immediate south-east of the proposed residential portion of the Project Area, off Anambah Road, and by 1970, hedge lines have been established leading away from the property to the west and north-west. These hedge lines run along, and up to, the boundary of the Project Area, but do not appear to cross into it (Figure 7). The hedges appear to mark the starting lengths of two dirt tracks which lead away from the property. By 2009, the dirt track which leads west from the property appears to have been formalised into a more established and visible gravel track. It can be seen running west from the property, along the southern boundary of the current Project Area, crossing a creek and then turning south to head towards Windella. By 2010, the residential property to the south-east of the Project Area has been abandoned and demolished and the hedge line which headed north-west away from it removed. The gravel track remains as does the hedge line which marks the eastern end of it. This hedge is much reduced by 2013 and is gone by 2015.

Based on this background information, the residential development and new access road elements of the Project Area are considered to have been subject to some disturbance, associated with clearance of forest vegetation and use as pasturage, with some dirt tracks also being established. It is possible that such disturbance may have had only a minimal impact upon the survival and visibility of archaeological sites.

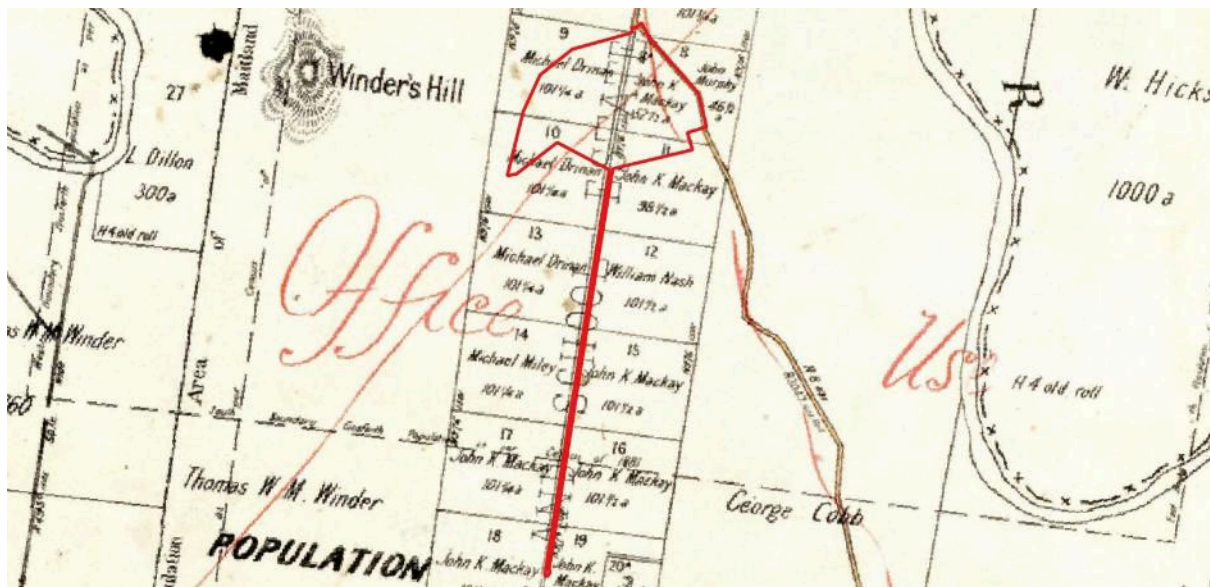


Figure 5. Parish of Gosforth 1885 showing the Project Area. (Source: HLRV Historical Parish Maps)



Figure 6. Project Area in 1958. (Source: NSW Government Historical Imagery)



Figure 7. Northern portion of Project Area in 1970, showing hedges and formation of track. (Source: NSW Government Historical Imagery)

4.1.5 Synthesis

The Project Area contains a number of landscape features which may have been attractive to Aboriginal people in the past. Much of the Project Area would have previously been forested, and it contains a number of waterways, which may have provided valuable resources; whilst the ridge lines and gentle slopes present in the Project Area may have been utilised for pathways and campsites. Such campsites are likely to have been temporary or transitory in nature near to non-perennial water sources, with more permanent camp sites being established closer to more reliable, perennial, water sources – such as the Hunter River.

The geology of the Project Area contains sandstone. Sandstone exposures, particularly near water sources, were often utilised as tool grinding sites, whilst sandstone overhangs, particularly near ridge lines, were often used as shelters and art sites.

The historical land use of the Project Area suggests varying levels of disturbance. The area of the residential development and new access road has been somewhat disturbed by vegetation clearance, pastoral use, and the establishment of dirt tracks.

4.2 Heritage Context

A review of the archaeological, ethno-historical and post-contact history of an area provides contextual information for Aboriginal sites within the local and regional landscape. Previous archaeological research undertaken in the region, as well as a review of environmental factors, can inform predictive models for the locations of Aboriginal sites. Predictive models can be further refined by the consideration of the post-contact land use of the area which may identify potential sources of post-depositional disturbances that may have occurred.

4.2.1.1 Historical Records

Historical records indicate that the Project Area is within the boundaries of Wonnarua (alternative spellings include Wanaruah, Wanarua, Wanarruwa and Wonaruah) Country (Tindale 1940). The traditional lands of the Wonnarua people have been documented as extending to the Upper Hunter River from a few miles above Maitland, and westwards to the Dividing Range (Tindale 1974). Early historical records indicate that the Wonnarua were part of a nexus of tribes in the Newcastle and Hunter River District (Threlkeld 1974, 3). These tribes were interconnected, with clear distinctions between coastal groups and those further inland (Threlkeld 1974, 4) (Irish 2017).

Boundaries between neighbouring groups were often defined by waterways or mountains. Economic, social, and religious links between various groups were noted by some of the early European observers. Wollombi Brook, the McDonald River and the Boree Track were all noted by McCarthy in 1939 as travel routes for Aboriginal people from the Upper Hunter to the Central Coast (Brayshaw 1987, 41), while Threlkeld noted in the 1830s that “Communications between distant tribes, although, perhaps hundreds of miles may intervene, are much more frequent than is commonly imagined by Europeans” (Threlkeld 1974, 42).

The Wonnarua people subsisted on the natural resources around them by using their detailed and in-depth knowledge of the seasonal availability of plants and animals. Their varied diet included a large range of fish, shellfish, animals, reptiles, birds, insects and plants. Some European observers, like pastoralist Robert Dawson, when recording the traditional life of Aboriginal people in the Hunter Valley in 1831, recognised that: “*The forest in its natural state, affords them everything necessary for their subsistence*” (Brayshaw 1987, 42).

In 1898, J.W. Fawcett wrote of the Wonnarua: “*In choosing the site (for their camps), proximity to fresh water was one essential, some food supply a second, whilst a vantage ground in case of attack from an enemy was a third*” (Brayshaw 1987, 42).

Aboriginal people responded to early European settlement in the Hunter Valley at Maitland (then Wallis Plains) in 1818, and Singleton (then Patrick Plains) in the early 1820s, in complex and varied ways (Dunn 2020, 116). There were violent confrontations, particularly in the 1820s, which were usually triggered by Aboriginal people raiding farms after being prevented from accessing land claimed by colonial settlers. This in turn led to reprisal attacks. The farm raids were spurred by the

fact that traditional food sources were steadily put under strain as the colonial population increased and more land was taken up in the Hunter Valley. Violence was also caused by the abduction of Aboriginal women, as well as indiscriminate killings (Dunn 2020, 116–17).

Aboriginal people had to make profound cultural changes to survive. They served as guides, and often worked on the early colonial farms (although rarely on fair and equal terms to the non-Aboriginal workers) (Dunn 2020, 116–17).

Despite these general associations and historical records of Aboriginal sites in the Hunter region, there are no known specific historical records which reference the Project Area. This is not to suggest that Aboriginal people did not have a presence in this particular area, just that local histories often pay little attention to the Aboriginal history of the locality (OEH 2011).

4.2.2 Archaeological Background

Australia and New Guinea were connected as a single continental landmass called Sahul and have been occupied by humans for at least 65,000 years (Clarkson et al. 2017). Eastern NSW has been occupied from at least 50,000 years ago (A. N. Williams et al. 2017). The earliest archaeological evidence of occupation in the Hunter region are radiocarbon dates obtained from charcoal at a site in Fal Brook, north of Singleton (Koettig 1987). The artefacts within the deposit were dated to the Pleistocene, approximately 34,590 years Before Present (BP). More locally, charcoal fragments recovered from hearth at open camp site 'OGC 1', near Cessnock (c.20km to the south-west of the Project Area), have been dated to 1,145 BCP (A. Williams and Ulm 2014). Most of the archaeology in the Hunter region is dated to the Holocene (the last 10,000 years).

4.2.3 Aboriginal Heritage Information Management System (AHIMS)

Aboriginal sites recorded in NSW are registered with geographic co-ordinates in the AHIMS and are protected under the National Parks and Wildlife Act 1974. Data in AHIMS can provide information on Aboriginal site patterning as well as showing if Aboriginal sites occur in the Project Area.

The AHIMS was searched on 21 May 2025 using coordinates GDA, Zone 56, Eastings 355413 to 362413 and Northings 6378958 to 6385958. The search produced a result of 118 sites (

).

Approximately 83% of the total number of sites include stone artefacts, which often dominate the archaeological record because they are preserved well in comparison to other materials such as bone implements, clothing, ornamentation, medicinal supplies, woven goods, and wooden weapons used by Aboriginal people. One third of the total number of sites include PAD. A modified tree, an art site, an Aboriginal Ceremony and Dreaming site and a stone quarry were also recorded in the region (Table 7).

The majority of the sites identified in the search are valid (77%), usually meaning that they have not been subject to an AHIP. Of the remainder, 17 sites have been destroyed, six sites have been partially destroyed, and 4 previously recorded PADs were later identified as not being archaeological sites. The status of sites identified in the search is summarised in Table 8.

The definitions of the site features identified in the AHIMS search is summarised in Table 9.

Table 7. AHIMS site types.

Context	Site Types	Count	Percent
Open Sites	Artefact	77	65.25%
	PAD	18	15.25%
	Artefact + PAD	16	13.56%
	Art + Artefact + PAD	1	0.85%
	Modified Tree	1	0.85%
	Aboriginal Ceremony and Dreaming + Artefact	1	0.85%
	Artefact + PAD + Stone Quarry	1	0.85%
Total Open Sites		115	97.46%
Closed Sites	Artefact + PAD	2	1.69%
	PAD	1	0.85%
Total Closed Sites		3	2.54%
Grand Total		118	100%

Table 8. Site status.

Site Types	Destroyed	Partially Destroyed	Valid	Not a Site
Artefact	17	2	58	
PAD		2	13	4
Artefact + PAD		2	16	
Art + Artefact + PAD			1	
Modified Tree			1	
Aboriginal Ceremony and Dreaming + Artefact			1	
Artefact + PAD + Stone Quarry			1	
Total	17	6	91	4
Percent	14.41%	5.08%	77.12%	3.39%

Table 9. Aboriginal site features description, as per OEH 2012 unless otherwise referenced.

Site Features	OEH 2012 Description
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Aboriginal Ceremony and Dreaming	Previously referred to as mythological sites, these are spiritual/story places where no physical evidence of previous use of the place may occur, e.g., natural unmodified landscape features, ceremonial or spiritual areas, men's/women's sites, dreaming (creation) tracks, marriage places etc.
Art	Art is found in shelters, overhangs and across rock formations. Techniques include painting, drawing, scratching, engraving, pitting, conjoining, abrading and the use of a range of binding agents and the use of natural pigments obtained from clays, charcoal and plants.
Artefact	Objects such as stone tools, and associated flaked material, spears, manuports, grindstones, discarded stone flakes, modified glass or shell demonstrating evidence of use of the area by Aboriginal people.
Modified Tree	Trees which show the marks of modification as a result of cutting of bark from the trunk for use in the production of shields, canoes, boomerangs, burials shrouds, for medicinal purposes, foot holds etc, or alternately intentional carving of the heartwood of the tree to form a permanent marker to indicate ceremonial use/significance of a nearby area, again these carvings may also act as territorial or burial markers.
Potential Archaeological Deposit (PAD)	An area where sub-surface stone artefacts and/or other cultural materials are likely to occur (DECCW 2010b, 38).
Stone Quarry	Usually, a source of good quality stone which is quarried and used for the production of stone tools.

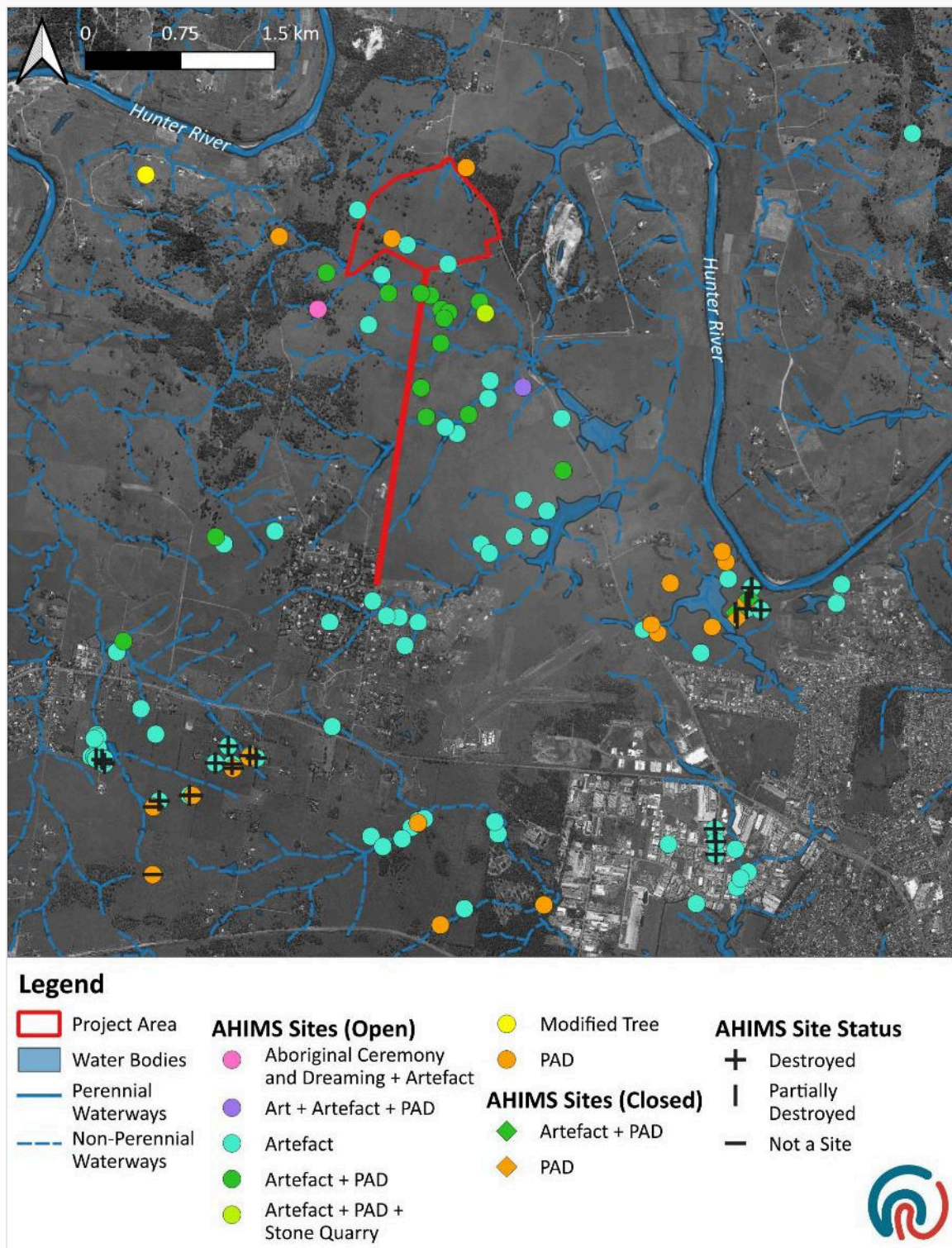


Figure 8. AHIMS search results. (Source: SCP with Heritage Now and AHIMS additions)

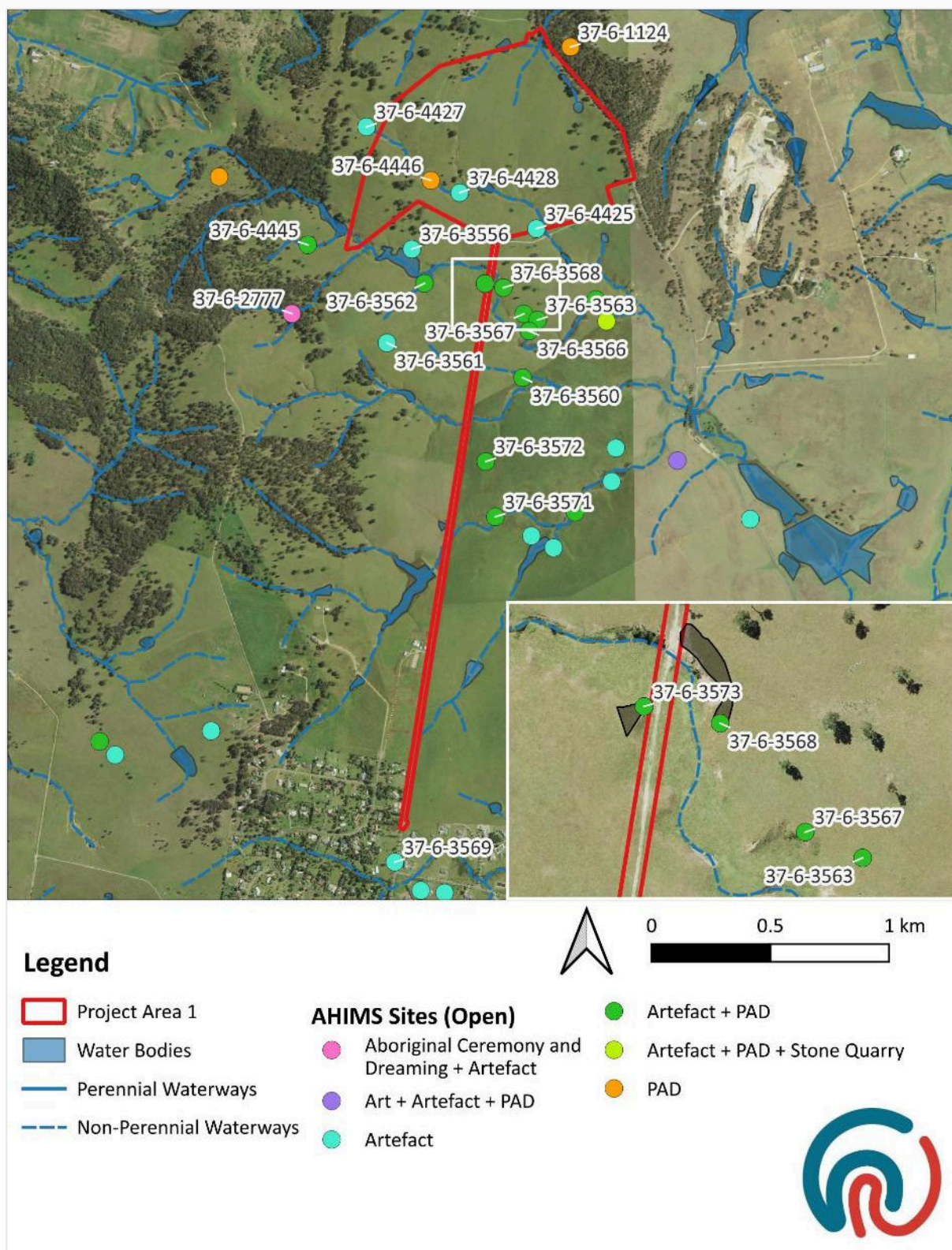


Figure 9. Details of AHIMS sites in closest proximity to the proposed residential development and access road. (Source: SCP with Heritage Now and AHIMS additions)

As shown in Figure 9 there are fifteen AHIMS sites (comprising artefacts and PADs) within 300m of the Project Area. Details from the relevant AHIMS site cards are outlined below and have been

somewhat separated out based on their spatial relationships to the individual elements of the Project:

4.2.3.1 Residential Development Area

AHIMS 37-6-1124 (PAD 1 Rutherford)

This PAD site is registered c.80m to the north of this part of the Project Area, having been recorded by Mary Dallas Consulting Archaeologists (MDCA) in 2003. While the registered location is within an area of woodland just to the north of Anambah Road, no further information is currently available, as there is no copy of the AHIMS site card, and no available reports are directly associated with the site. Given the proximity of the registered site, the survey undertaken by Heritage Now in 2023 as part of the Aboriginal Due Diligence Assessment aimed to establish whether the PAD was likely to extend into this part of the Project Area. The survey concluded that this AHIMS site was unlikely to extend into the Project Area due to changes in landform between the two sides of Anambah Road, and previous land use including construction of the road and dams. No surface artefacts were found in the vicinity of this previously recorded site.

AHIMS 37-6-3556 (Anambah IF 9)

This site is located c.140m to the south of the Project Area and was recorded in 2013. It consists of a single silcrete flake found on the bank of a dam. No evidence of this extending into the Project Area was noted during the survey undertaken by Heritage Now in 2023, as part of the Aboriginal Due Diligence Assessment.

4.2.3.2 River Road Access Route

AHIMS 37-6-3562 (Anambah SAC 4 and PAD 22)

This site is located c.290m to the south of the Project Area and c.255m to the west of the New Access Road. It was recorded in 2013. The site consists of a yellow/brown chert flake with possible backing, a yellow mudstone flake and a yellow silcrete flake, located on the eroded bank of a dam. An area a PAD was identified in association with these artefacts, on a flat area (c.35m x 25m) to the south of the dam.

AHIMS 37-6-3573 (Anambah SAC 16 and PAD 18)

This artefact scatter and PAD site was recorded in 2013, and although the registered location places the site c.160m to the south of the residential development area and 6m to the west of the line of the proposed new access road, the site card identifies it as being located further to the east – 413m to the east of the line of the proposed new access road and 165m south of the residential development area. The site consists of a PAD (c.28m x 27m) on an area of elevated flat land above a modern dam. One possible red silcrete flake was recorded on the surface, on a lower slope near the dam, and test excavation of the PAD yielded two further stone artefacts (although their material and typology was not recorded on the AHIMS site card).

AHIMS 37-6-3555 (Anambah IF 8 and PAD 23)

This isolated find and PAD site is located c.180m to the south of the residential development area and 6m to the west of the line of the proposed new access road. It was recorded in 2013 and is located on a raised flat adjacent to a creek. The PAD is recorded as approximately 28m x 26m in size,

and a single yellow silcrete flake was found in association with it, on the heavily eroded bank of the creek.

AHIMS 37-6-3568 (Anambah SAC 11 and PAD 27)

This artefact scatter and PAD site is located c.140m to the south of the residential development area and 50m to the east of the line of the proposed new access road and was recorded in 2013. An area of PAD was identified on a slightly sloped landform overlooking a creek, covering an area of c.110m x 22m. Initially c.10 surface silcrete artefacts were identified along the high eroded bank of the creek in this area, and subsequent test excavation yielded an additional 171 artefacts.

AHIMS 37-6-3567 (Anambah SAC 10 and PAD 26)

This artefact scatter and PAD site is located c.150m to the east of the line of the proposed new access road and was recorded in 2013. This PAD covers an area of c.56m x 12m on a very slightly sloped landform overlooking a creek. Two silcrete artefacts in an area of heavy erosion were identified during field survey on the creek bank, which had been terraced. 25 artefacts were recovered during test excavation of 9 pits within the PAD. The site retains moderate archaeological potential.

AHIMS 37-6-3566 (Anambah SAC 9 and PAD 25)

This artefact scatter and PAD site is located c.185m to the east of the line of the proposed new access road and was recorded in 2013. This PAD covers an area of c.55m x 21m on a low flat landform above a creek. More than 30 artefacts were identified in two exposures along the creek bank. 28 artefacts were identified from 12 pits during test excavation. The site retains moderate to high archaeological potential.

AHIMS 37-6-3563 (Anambah SAC 5 and PAD 20)

This artefact scatter and PAD site is located c.210m to the east of the line of the proposed new access road and was recorded in 2013. This PAD covers an area of c.256m x 55m on an elevated flat above a creek. The eastern half of the PAD had been ploughed and cropped within previous 10 years, and thus has some reduced integrity. SAC 5 was on the north side of PAD 20 in the eroded creek bank. More than 30 artefacts were identified in one exposure and more than 15 artefacts were identified in a second exposure during field survey. An additional 32 artefacts were recovered from 20 test pits during test excavation. This site retains moderate to high archaeological potential.

AHIMS 37-6-3560 (Anambah SAC 1 and PAD 21)

This artefact scatter and PAD site is located c.190m to the east of the line of the proposed new access road and was recorded in 2013. This PAD covers an area of c.115m x 25m on a low flat alluvial terrace above a creek. 14 artefacts were discovered at three locations within erosional areas on the margins of the creek bank during survey. Six artefacts were of silcrete, including a core. Three were of tuff, including a core, and five were mudstone (indurated tuff). Six test pits were excavated during test excavation and nine artefacts were recovered from these pits.

AHIMS 37-6-3572 (Anambah SAC 15 and PAD 16)

This artefact scatter and PAD site is located c.93m to the east of the line of the proposed new access road and was recorded in 2013. This PAD covers an area of c.320m x 70m on a large flat hilltop and slope to the east, with 270 degree views. The area of PAD had been ploughed and cropped within

the previous 10 years, and thus had reduced integrity. A large silcrete core was identified on the flat hilltop during field survey. Testing of 52 pits identified an additional 18 artefacts. This site retains moderate archaeological potential.

AHIMS 37-6-3571 (Anambah SAC 14 and PAD 15)

This artefact scatter and PAD site is located c.170m to the east of the line of the proposed new access road and was recorded in 2013. This PAD covers an area of c.75m x 21m across two elevated flats, on lower slopes, within the open depression of a second order creek. The area of PAD had been ploughed and cropped within the previous 10 years, and thus has reduced integrity. During the survey, a silcrete (heat treated) flake was identified within erosion scars adjacent to the creek. During test excavation of 13 pits across PAD 15, 25 additional artefacts were identified.

AHIMS 37-6-3569 (Anambah SAC 12)

This artefact scatter site is located c.140m to the south of the southern end of the proposed new access road and was recorded in 2013. This open site covered an area of c.5m x 1m across a disturbed urban landscape bank and contained four mudstone flakes. It was assessed as having no archaeological potential.

4.2.3.3 Other Sites

In addition to these sites, another site of interest sits more than 300m away from the main Project Area, but is of a rare enough site type, and of enough significance, that it is worth mentioning here.

AHIMS 37-6-2777 (Anambah SCA 3)

This is recorded as an Aboriginal Ceremony and Dreaming and artefact site, registered c.340m south-west of the Project Area. Although there are only limited details provided on the site card (there are no maps of the site, and the associated report appears not to have been lodged with AHIMS), it is described as containing over 100 artefacts in an erosion scour (50m x 10m) on the middle to upper reaches of a steep, small finger spur behind a high hilltop with commanding views. The artefacts were found in a very steep location, where artefacts would not normally be expected. No details were given regarding the nature or location of the Aboriginal Ceremony and Dreaming feature, but given the reference to a high hilltop, it is possible that the cultural importance may extend up to 1km to the north-west of the plotted location. It is also notable that the description of the site as given on the card does not precisely match the location of the site as recorded on the AHIMS database, thus the precise location of the site is somewhat uncertain.

4.2.4 Heritage Report Summaries

Heritage reports relevant to the Project Area have been summarised in this section to provide an understanding of the previous assessments that have been undertaken and the implications for Aboriginal site patterning.

Heritage Now (2024), Aboriginal Heritage Due Diligence Assessment Report

The Residential Development section of the Proposed Development was subject to survey as part of an Aboriginal Due Diligence Assessment on 8 December 2023. The survey involved a member of Heritage Now team and Les Draper of Mindaribba Local Aboriginal Land Council.

The Project Area was surveyed as one survey unit, comprising a series of valleys with sloped land either side of the valley, and ridge lines near the western boundary of the Project Area and the centre of the Project Area. There was thick grass cover across the majority of the Project Area, with areas of exposure limited to erosion on slopes adjacent to the drainage and creek lines. As waterways are generally considered to have archaeological sensitivity, the survey targeted these areas of exposure. There was good visibility along the edge of a dam in the north-east of the Project Area. However, no artefacts were observed in this area. Some sandstone outcrops were noted along the north-south drainage line, and on the ridge line near the centre of the Project Area. However, there was no evidence of art, grinding grooves or stone arrangements.

Three surface artefact sites were identified during the survey, adjacent to the creek line running through the middle of the Project Area. The entire creek line, and the second order creek in the south-west corner of the Project Area, are assessed as being archaeologically sensitive, with potential for subsurface archaeological material. Further information on the results of the survey are provided in Section 5.

Godden, Mackay, Logan (2012), Anambah Investigation Area: Archaeological and Cultural Assessment Methodology Draft

This document presented the outline methodology for a proposed programme of Archaeological survey and test excavation within the Anambah Investigation Area, prior to proposed residential re-development of the area. The Anambah Investigation Area extended to c.484ha (Godden Mackay Logan 2012, 5) and appears to have some overlap with the current Project Area, but was primarily to the south of it. The supporting Aboriginal Cultural Heritage Assessment (ACHA) Report for this project is not available in AHIMS. Unfortunately, this document does not discuss the archaeological background to the proposed project, nor present any rationale for why the work is being undertaken (although this may have been covered in the ACHA report). Neither the detailed methodologies for each of the phases of the proposed works, nor the reports detailing the results of the work, are currently available from AHIMS, so it is unclear if the archaeological excavations took place or not.

ERM Mitchell McCotter (1999) Sand and Gravel Extraction at Gosforth

An archaeological survey was undertaken for a proposed sand and gravel quarry c.2km north of the Project Area. The area comprised 14ha located in a meander of the Hunter River, on a point bar over an area of land used for grazing at the time. It was considered that this area would have contained a variety of resources sought by Aboriginal peoples, including permanent water, extensive flats that would have attracted game and a source of fish, shellfish and water plant. The survey identified four artefacts in an exposure along an access track, comprising a grey silcrete core (broken), a grey silcrete flake and two mudstone flakes (ERM Mitchell McCotter Pty Ltd 1999, 67). It was recommended that modifications be made to protect potential Aboriginal sites, and that the quarry site be surveyed again, after extraction and prior to remedial earthworks (ERM Mitchell McCotter Pty Ltd 1999, 68).

Dallas and Kerr (1997) and Dallas (2003) Archaeological Survey/Subsurface Investigation, Rutherford

An archaeological survey and geotechnical excavations were undertaken for a proposed subdivision in Rutherford, approximately 2.4km to the south of the Project Area. Three stone artefact sites and a PAD were identified, comprising four stone artefacts located beneath a ridge crest, on the western edge of dam near a creek; one stone artefact identified at the base of a low spur near the beginning of a creek; one stone artefact identified from a surface scrape near geotechnical test pit 10; and a PAD identified on a point bar adjacent to an intermittent creek, where low-density archaeological material was predicted. All sites were considered to be of low archaeological significance, but test excavation of the PAD was recommended to determine whether archaeological deposits were present (Mary Dallas and Kerr 1997).

An updated archaeological assessment was conducted in 2003, in which the study area was inspected to assess the condition of the previously identified sites and PAD, and to assess whether there were any other potentially sensitive landforms (watercourses, hill crests and slopes). During the survey, an additional two isolated artefacts were identified. All sites were considered to be of low archaeological significance, but test excavation of the PAD would be required if the sites were to be impacted (Mary Dallas 2003).

Hamm (2008) Aboriginal Cultural Heritage Assessment of Lot71 DP714785, Anambah Road

A heritage assessment was undertaken for c.71ha of land proposed to be rezoned, located 2.65km to the south-east of the Project Area. The area was adjacent to the west bank of the Hunter River and set across what is known locally as Anambah Lagoon, a freshwater wetlands complex dominated by a series of gently undulating low hills and elongated sloping ridges, with drainage channels leading into the Hunter River. The area had been subject to prior survey (M Dallas 2003), which had identified four artefact sites and four PADs (Hamm 2008, 9). It was deemed that these would be the most likely site types to be encountered by the survey work undertaken as part of this report, but that scarred trees may also be present (Hamm 2008, 25).

The survey identified two additional artefact sites: a yellow tuff flake on the edge of a channel; and a broken yellow silcrete flake and broken red silcrete flake on a slope on the edge of the river terrace. An additional five PADs were also identified within the lot. It was recommended that a buffer zone be established around parts of the lagoon to protect known and suspected Aboriginal sites from harm.

Ruig (1996, 1997) Penn Park, Lochinvar

An archaeological survey was undertaken for a proposed rural residential subdivision, north of the New England Highway and west of River Road, approximately 3km to the south of the Project Area. Although the survey did not identify any Aboriginal sites, it was recommended that subsurface investigations be conducted, particularly around a creek line in the south-eastern portion of the study area (Ruig 1996). Test excavation was subsequently undertaken in this area, consisting of 44 test pits measuring 25cm x 100cm, spaced 5m apart (Ruig 1997, 8). Only two artefacts were found; a mudstone flake and a mudstone flaked piece, located 30m apart on the north bank (within 10m) of the creek. They were considered to represent a low-density archaeological deposit (of only 0.18 artefacts/m² excavated) and were assessed to be of low archaeological significance.

Mary Dallas Consulting Archaeologists (2010) Aboriginal Heritage Assessment and Management Plan: Portions of the Lochinvar Urban Release Area

MDCA undertook an Aboriginal Heritage Assessment of portions of the Lochinvar Urban Release Area comprising five study areas (A-E) totalling 238ha. The northernmost of the study areas (A and B) are located just over 3km to the south of the Project Area.

The study noted that the vast majority of Aboriginal archaeology within the Hunter Valley area dates to less than 10,000 years ago, that most of the sites recorded in the AHIMS register (at this time) for the study area were open artefact scatter sites (85% of the known sites) and that, in the main, these were located along creek lines or on elevated flat ground above watercourses. Within study area B, AHIMS 37-6-1607 (an open campsite containing two artefacts) was noted. However, seven other sites had previously been recorded (Insite Heritage 2010), consisting of:

- Loci 1 (L1) – located on gentle slope (basal). An isolated artefact (silcrete flake) in an exposure of 30m x 30m.
- Loci 2 (L2) – located on a gentle slope (basal). Three artefacts (mudstone and silcrete flakes and a flaked piece) were identified along a drainage trench that was cut down slope exposing an area of 50m x 2m to a depth of 50cm.
- Loci 3 (L3) – located on a gentle slope (basal) above a confluence of minor watercourses. Seven artefacts located in an area of 40m x 15m consisting of four mudstone flakes and three mudstone flaked pieces.
- Loci 4 (L4) – located on a gentle slope (mid). Four artefacts located in an exposure around a dam (50m x 5m), comprising three mudstone flakes and one mudstone core.
- Three areas considered highly likely to contain subsurface archaeological material (PADs) were identified on the basal slopes adjacent to Lochinvar Creek, in the vicinity of tributary confluences and in association with the four loci of artefacts located in the northern portion of study area B.

MDCA concluded that unknown Aboriginal sites within the study area were likely to consist of low density, surface or subsurface artefact sites, indicative of small/temporary camp sites, which would be concentrated along creek lines (typically within 100m), particularly along the section of Lochinvar Creek near St Helena (1.6km to the south west of the Project Area) and along Stony Creek near West Rutherford (Mary Dallas Consulting Archaeologists 2010, 54–60).

A survey of the study area identified a variety of archaeological features. Most pertinently with reference to the Project Area, study area A contained a single PAD (PAD2), c.70m (east-west) x 130m (north-south) in size and located close to the western bank of Lochinvar Creek. Within study area B, the locations of Loci L1-L4 were confirmed and were noted to be located near creeks; however, MDCA disagreed with Insite Heritage's interpretation of the presence of PADs in this area (Mary Dallas Consulting Archaeologists 2010, 44–48). No other Aboriginal artefacts, sites or deposits were noted within this study area. The other study areas contained a variety of PADs and open artefact sites, indicative of camp sites.

It was recommended that an AHIP be obtained for PAD2 (and a number of other PADs) and that the surface artefacts in study area B be collected under an AHIP (Mary Dallas Consulting Archaeologists 2010, 84–85).



Figure 10. Nearby archaeological investigations discussed in Section 4. (Source: SCP aerial with Heritage Now and AHIMS additions)

4.2.5 Artefact Density Predictive Modelling

Predictive models are based on upon the assumption that environmental factors provide distinctive sets of constraints that influence land use patterns (Kuskie 2015, 8). In the Hunter Valley, for instance, J.W. Fawcett in 1898 said of the Wonnarua, that when choosing the sites for their camps, access to fresh water was one essential and a food resource of secondary importance, whilst a vantage point in case of attack by an enemy was third (Brayshaw 1987, 42).

Artefact density is linked to different types of activities falling on a scale from long-term occupation to short-term transitory movement. Attenbrow (2006) built on earlier archaeological models to develop a model of occupation within the Australian context, identifying base camps, activity camps and transit camps. Base camps are similar to residential bases in that they were occupied for a longer period of time (several days or longer). Activity camps, conversely, are characterised by short periods of use, and are usually functionally specific. Activities that may take place at activity camps in Australia include hunting, artefact preparation, gathering of raw materials, and ceremonial activities (Attenbrow 2006, 220–21). ‘Transit camp’ refers to places that were used to camp for short periods, usually overnight, often when travelling between base camps or resource areas. Archaeologically, base camps are characterised by a larger archaeological context (in square metres), higher concentrations of stone artefacts, and a more diverse assemblage than transit and activity locations. Stone artefacts in these assemblages may show signs of tool manufacture and maintenance, skin working and food preparation (Attenbrow 2006, 221).

A clear trend has been identified in the Hunter Region in which higher artefact densities occur closer to wetlands and source of fresh water, indicating that these locations were a major focus of activity in the area (Kuskie 1994). Specifically, areas within 300m of wetlands and fresh water are considered to have been suitable sites for camping and focused occupation (i.e., repeated visits, visits of longer duration), whereas areas further than 300m from wetlands and/or water sources were outside the primary or secondary resource zones, and would only have had low to very-low intensity use for

hunting/gathering during the course of the normal daily round, or for transitory movement (Kuskie 2015).

By combining Attenbrow's (2006) Australia-wide predictive model, with Kuskie's Hunter Valley regional model (Kuskie and Kamminga 2000; Kuskie 2015), archaeological sites in the Hunter Valley can be usefully interpreted as base camps (areas of high artefact density, usually within 300m of wetlands and fresh water and often re-occupied and re-visited), low-intensity use (gathering of resources and short stays), and transitory use (passing through). Artefact density and characteristics are the key determinant in the categorisation of type of occupation. Both studies also noted that open camp site locations tend to prefer flat or gently sloping topographies, tending to shy away from steeply sloping areas.

4.2.6 Summary of local and regional character of Aboriginal land use and its material traces

The Project Area lies across an area which would once likely have been heavily forested, overlying the Lochinvar Formation of the Dalwood Group (basalt, siltstone, and sandstone). The proposed residential plot of the Project Area lies over a broad valley and contains two north-west to south-east ridge lines, and is bisected by two non-perennial water sources, which ultimately flow into the Hunter River to the east. The resources provided by the forest combined with the nearby (if non-permanent) source of fresh water would likely have been attractive to Aboriginal people.

Within the wider region around the Project Area artefact sites are by far the most common site types, typically associated with creek lines or other water sources. A quarry site (AHIMS 37-6-3564) is also known c.450m to the south-west of the proposed residential development element of the Project Area – near to a creek line and a suitable silcrete outcrop and a ceremonial/dreaming site (AHIMS 37-6-2777) is also known 300m to the south-west of the same section of the Project Area – also located less than 50m from a creek line.

Sixteen previously recorded AHMS PAD and artefact sites lie within 300m of the Project Area and the survey undertaken as part of the due diligence assessment (Heritage Now Pty Ltd 2024a) confirmed the presence of two surface artefact scatters sites (AFT01 and AFT02) within the proposed residential development element of the Project Area and a further scatter (AFT03) c.50m to the west of this area, all set on flat or gently sloping locations near to the creek line which runs through the middle of the Project Area. A total of eight artefacts were recovered from these sites, seven flakes and one core, made of either silcrete (four artefacts) or IMT (four artefacts including the core). The two creek lines running through this area were also assessed as archaeologically/culturally sensitive - as areas of Potential Archaeological Deposit (Anambah Road PAD).

4.2.7 Archaeological Predictions for the Project Area

The environmental and cultural setting of the Project Area (including the sites identified in the previous survey) appears to confirm the predictive models of both Attenbrow and Kuskie, in that the Aboriginal evidence in and around the Project Area is dominated by artefact scatters indicative of campsites of varying size, duration and intensity - focused on areas of gentle topography around water sources. Where specific resources are present (such as stone outcrops), specific site types appear to exploit these resources.

Accordingly, it is predicted that the Project Area is most likely to contain artefact scatter sites. They are predicted to be a lower density, reflecting temporary camps/transitory use of the environment,

with larger sites more likely to occur in proximity to the Hunter River or other perennial/more significant water sources. The prior survey did not identify the presence of suitable outcrops which could be used as shelter sites, art sites, tool grinding sites or exploited for raw material from which to produce stone tools (quarried) within the proposed residential development of the Project Area, but given the underlying geology and topography there is the potential for these to be present within the other sections of the Project Area.

Table 10 describes the assessed likelihood of Aboriginal archaeological site features being present in the Project Area, on a scale of very low – very high likelihood.

Table 10. Likelihood of different sites features being preserved within the Project Area.

Site Features	Likelihood	Comment/Justification
Aboriginal Ceremony and Dreaming	Medium	Ceremonial site known in proximity to Project Area but no evidence/indication for such sites being present within the Project Area.
Aboriginal Resource and Gathering	Low	Rare site type for region.
Art	Low	Though there is potential for sandstone in the area, this is a rare site type and there are no previously recorded art sites in the vicinity.
Artefact	Very high	Most common site type for region, including sites known to be present within the Project Area. Typically located near to water sources.
Burial	Very Low	Rare site type for region, no historical references for burials in this area.
Ceremonial Ring	Very Low	Rare site type with low chance of preservation based on past land-use and clearing.
Conflict	Very Low	No specific historical or ethnohistorical documentation of conflict in the Project Area.
Earth Mound	Very Low	Rare site type with low chance of preservation based on past land-use and clearing.
Fish Trap	Very Low	Usually located within higher order streams, or coastal environments, which are not present in/very near to Project Area.
Grinding Groove	Low	Potential for sandstone in the local geology, however the AHIMS search did not any reveal such sites in the local area and no suitable outcrops noted in one part of the Project Area during prior survey.
Habitation Structure	Low	Potential for sandstone in the local geology, however the AHIMS search did not any reveal such sites in the local area and no suitable outcrops noted in one part of the Project Area during prior survey.
Hearth	Low	Rare site type and more likely to occur at large base camps that were more frequented by Aboriginal people. No evidence for such in Project Area.
Modified Tree	Low	Rare site type, only one recorded in the AHIMS search of local area, and no evidence for mature (> 150 year old) trees in Project Area.
Non-Human Bone and Organic Material	Low	Rare site type with low preservation rates.

Ochre Quarry	Very Low	Rare site type, ochre not known to occur in the local geology.
Potential Archaeological Deposit (PAD)	Very High	One of the most common site types for region, including sites known to be present within the Project Area.
Shell	Low	More likely to occur near higher order streams/coast, and none previously recorded in the area.
Stone Arrangement	Very Low	Rare site type with low chance of preservation based on past land-use and clearing.
Stone Quarry	Medium	Quarry site known in proximity to Project Area. Survey did not find evidence of this extending into the Project Area but is possible that evidence may be present.
Waterhole	Very Low	Potential for sandstone in the local geology, however the AHIMS search indicates that they are a rare site type for the local area, with none in the search results.

4.2.8 Synthesis

A search of the AHIMS database indicates that there are fifteen previously recorded PAD and artefact sites within 300m of the Project Area (Figure 9). In addition, three artefact sites and a PAD were identified in the previous Due Diligence Assessment prepared by Heritage Now.

The Project Area would likely once have been heavily forested. It lies over a broad valley and thus contains two ridge lines, and is bisected by a non-perennial water source, which would have flowed into the Hunter River to the east (see section 4.1). The resources provided by the forest combined with a nearby (if non-permanent) source of fresh water would likely have been attractive to Aboriginal people.

Ridge lines were often used as pathways and can be associated with low-density, low artefact count, temporary/transitory campsites. Flatter areas and gentle slopes associated with water were often associated with more permanent camp sites. Sites tend to increase in density and complexity in relation to the permanence of the water source and decrease with distance from it. Stone outcrops along upper slopes and ridge lines were often used as shelters and/or art sites, whilst exposures near water sources were often used as tool grinding sites.

Based on this heritage and environmental context, artefact scatters are considered to be the most likely site type to be encountered across the Project Area, some of which may be associated with PADs. These may occur along the ridge lines running through the Project Area and along more gently sloping areas of the valley sides. However, it is likely that larger, permanent camp sites would have favoured locations closer to the resources of the Hunter River. Any sandstone outcrops and exposures within the Project Area may have been utilised by Aboriginal people for shelter, art or tool grinding.

5 Archaeological Survey

The proposed residential development portion of the Project Area was subject to pedestrian survey by Crystal Phillips of Heritage Now and Les Draper of Mindaribba LALC on 8 December 2023.

The proposed access road was surveyed by Crystal Phillips and Tiffany Jones of Heritage Now and Les Draper of Mindaribba LALC on 1 July 2024.

The aim of both surveys was to identify material evidence of Aboriginal occupation on the surface as well as provide an assessment of archaeological potential – the non-visible material traces or evidence of Aboriginal land use which have a likelihood of being present under the ground surface (DECCW 2010b, 12).

5.1 Survey Results

The Project Area was surveyed as two survey units, based on the proposed development: the residential development area (SU1), and the access road (SU2). An estimate of survey coverage is provided in Table 11 and the survey units are shown in Figure 11.

Table 11. Survey coverage.

Survey Unit	Landform	Survey Unit Area (m ²)	Visibility %	Exposure %	Effective Coverage Area (m ²)	Sample Fraction (%)	Sites Identified
1	Undulating Hills	673601	20	10	13472.02	2	3
2	Undulating Hills	50784	15	5	380.88	0.75	1

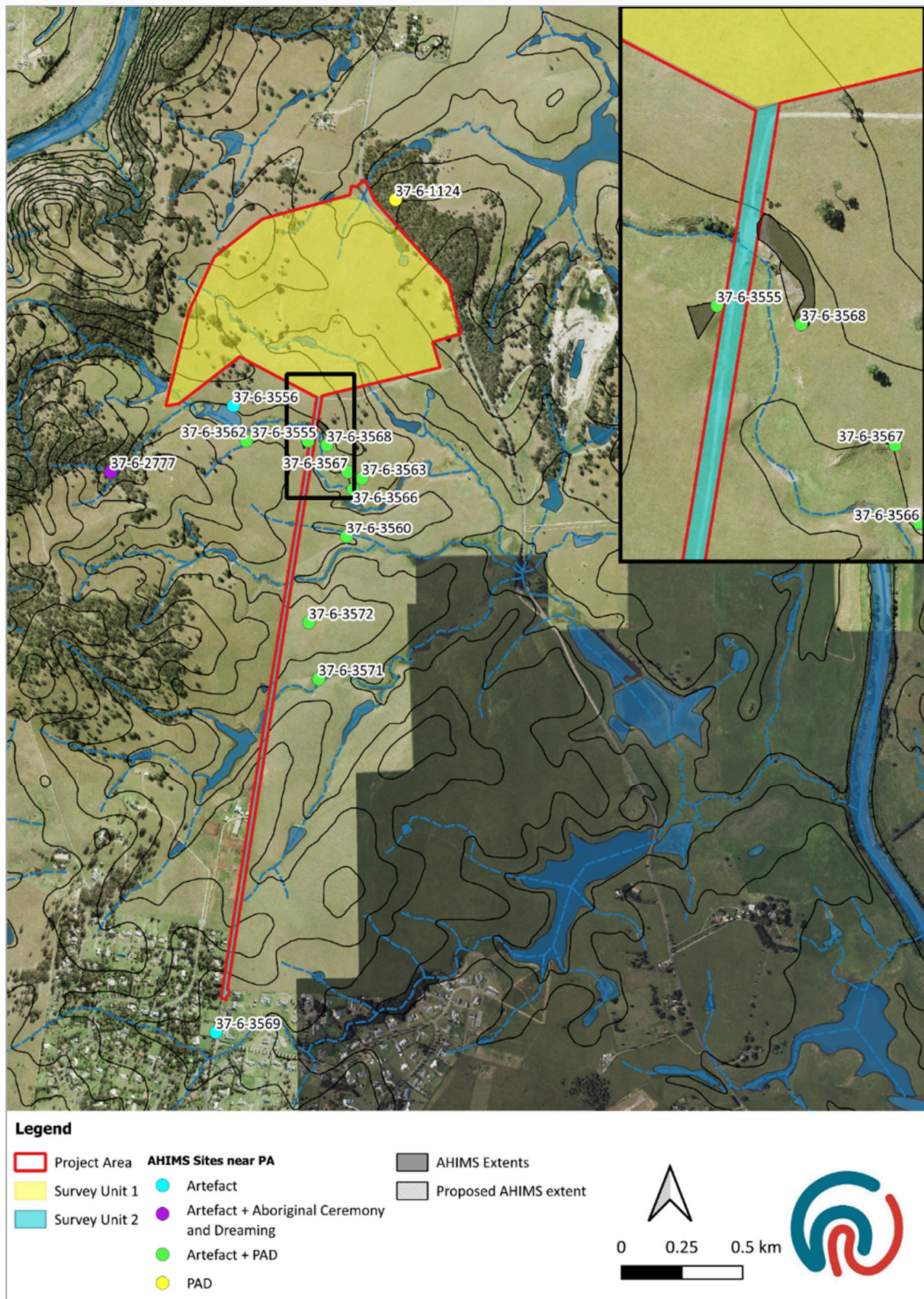


Figure 11. Illustration of Survey Units. (Source: SCP aerial with Heritage Now and AHIMS additions)

Survey Unit 1 (SU1) Residential Development Area

Survey Unit 1 includes the residential development area, comprising a series of valleys with sloped land either side of the valley (Plate 1), and ridge lines near the western boundary of the Project Area and the centre of the Project Area (Plate 2, Plate 3). There was thick grass cover across the majority of the Project Area, with areas of exposure limited to erosion on slopes adjacent to the drainage and creek lines (Plate 4). As waterways are generally considered to have archaeological sensitivity, the survey targeted these areas of exposure.

The main creek line runs approximately north-west to south-east across the Project Area. Another drainage line runs north-south, meeting the creek line near the centre of the Project Area. During the survey, surface artefacts were identified in three locations (near the fence line on the southern boundary, where the creek meets another drainage line near the centre of the Project Area, and at the western boundary) in areas of exposure adjacent to the creek (Figure 12). Further details are provided below.

There was good visibility along the edge of a dam in the north-east of the Project Area (Plate 5). However, no artefacts were observed in this area. Outside of the dam, visibility in this area was low.

Some sandstone outcrops were noted along the north-south drainage line (Plate 6), and on the ridge line near the centre of the Project Area (Plate 7). However, there was no evidence of art, grinding grooves or stone arrangements.

Three surface artefact sites were identified during the survey, adjacent to the creek line running through the middle of this part of the Project Area (Plate 8 - Plate 16). The entire creek line, and the second order creek in the south-west corner of this part of the Project Area were assessed as being archaeologically sensitive, with potential for containing subsurface archaeological material

Survey Unit 2 (SU2) Access Road

This survey unit encompasses almost the entirety of the proposed access road section of the Project Area and comprises undulating hills (Plate 17), interspersed with drainage channels (Plate 19). No sandstone outcrops were identified near the drainage channels. Ground surface visibility was generally poor due to thick grass cover; however, the ground surface was visible in areas where the grass cover was thinner. The greatest area of visibility was along an unsealed vehicle track that extends approximately through the first quarter of the northern section of the proposed access road (Plate 20). This track contained mixed stone inclusions. It is likely this material was introduced to provide traction to vehicles using the track (Plate 21). Exposures were also seen along fence lines (Plate 22), erosional gullies (Plate 23), and where ground was trampled by livestock (Plate 24). Within these exposures, B horizon clay was visible in the northern half of the survey unit and A horizon soils within the southern half.

The land within this survey unit, is currently being used as paddocks for livestock animals, and there is visible ground disturbance from animal trampling and fence lines (Plate 25). There was also ground disturbance from the installation of a water culvert for a third order creek, which passes underneath the vehicle track (Plate 26).

The location of the previous recorded PAD (AHIMS 37-6-3568) which is recorded as extending into the Project Area, was reidentified (Plate 27). Visibility was generally poor due to thick vegetation coverage and was limited to sheet wash erosion (Plate 28). Within these exposures, A Horizon

Rothbury soils were visible, as were stone inclusions local to the area (Plate 29). No surface artefacts associated with this site were identified within the proposed access road.

The site card for AHIMS 37-6-3658 details that test excavations have been conducted (which yielded 171 artefacts); however, there was no visible evidence of the test pits during survey.

The PAD extent associated with AHIMS 37-6-3555 does not fall within the Project Area, however the elevated terrace it is recorded on could be viewed from the proposed access road. No Aboriginal objects associated with this site were identified during survey.

5.1.1 Aboriginal Sites Identified and/or Previously Recorded

The archaeological surveys of the Project Area identified three new artefact scatters and an associated PAD in addition to previously recorded sites, previously recorded sites were also ground-truthed (inspected).

5.1.1.1 Survey Unit 1 (Proposed Residential Area)

Anambah Road AFT-01

Artefacts were identified within exposures on both the north-east and south-west side of the creek line, near the south-east boundary of the Project Area (Figure 12, Plate 8-Plate 11, Table 12). In addition, several outcrops of silcrete were observed; however, exposure in this area was too limited to determine whether there was any evidence of these being quarried. There is a quarry site recorded on AHIMS c.470m south-east of this area (AHIMS 37-6-3564), where large cobbles of silcrete, a large number of flakes removed for further reduction, and flaked primary reduction flakes were identified in an exposure on the margin of the creek, with smaller tools noticeably absent. It is possible that the silcrete outcrops here are part of the same geological formation as at AHIMS 37-6-3564.

It is considered unlikely that the artefacts are in situ; rather, their location is likely the result of movement from run-off down the slopes towards the creek. Immediately north-west of the artefacts, the slope flattens and broadens. This area was identified as archaeologically sensitive by Les Draper, who suggested that the flat area next to the creek would have been a good place to camp.

Anambah Road AFT-02

This site was also located along the creek line (Figure 12, Plate 12). The flat, elevated area adjacent to water was also considered archaeologically sensitive, potentially of greater sensitivity than Anambah Road AFT-01 due to a gentler slope which is more suitable for occupation. Three artefacts were identified: two IMT flakes and one silcrete flake (Plate 13, Table 12).

Anambah Road AFT-03

This site was identified adjacent to the creek line, immediately west of the Project Area (Figure 12, Plate 14). A single artefact was identified: a large IMT flake with evidence of retouch along the right dorsal margin (Plate 15, Table 12). This artefact is also considered unlikely to be in situ, as it was found on an eroding slope next to the creek. The flatter area above the slope was identified as archaeologically sensitive.

Anambah Road PAD

Based on the results of the survey, and previous surveys in Anambah which have identified multiple artefact sites adjacent to creeks, the entire creek line within the middle of the Project Area, and the second order creek in the south-west corner of the Project Area, are likely to be sensitive (Figure 12).

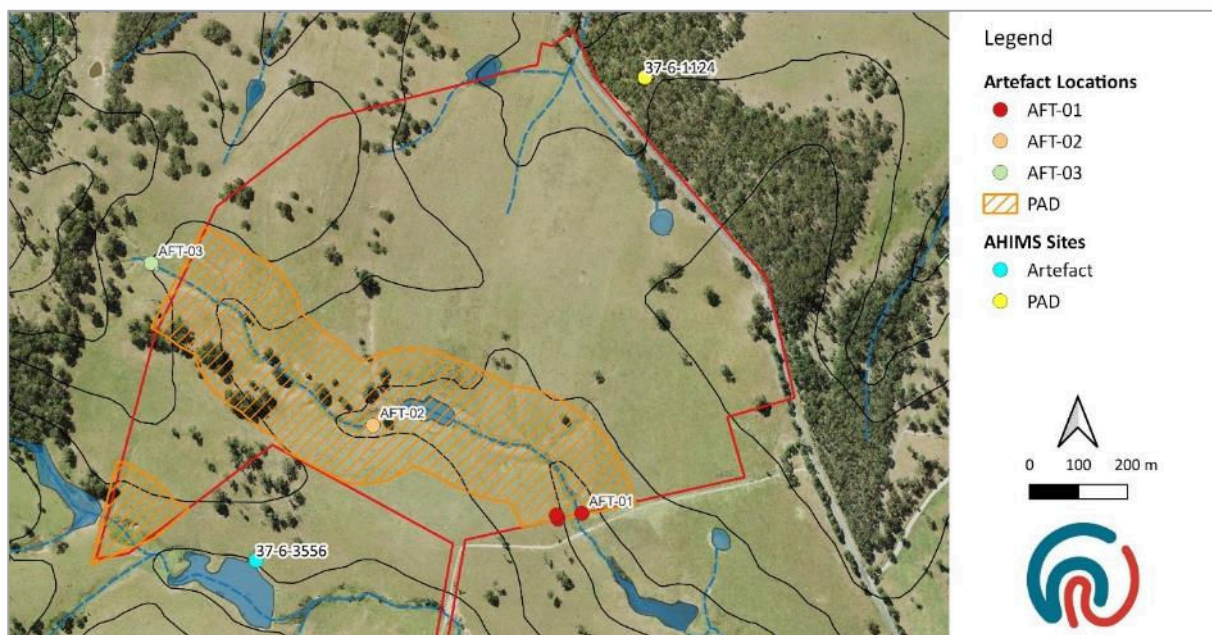


Figure 12. Location of artefact sites and potential archaeological deposits within SU1. (Source: SCP topography and SCP aerial with Heritage Now and AHIMS additions)

AHIMS 37-6-1124 (PAD1 Rutherford)

This PAD site is registered on the opposite side of Anambah Road to the Project Area. Given the proximity of the registered site (c.80m from the Project Area) and the lack of information available from AHIMS, the survey sought to determine if the area of PAD extends into the Project Area. Les Draper and Heritage Now agreed that the site was unlikely to extend into the Project Area due to changes in landform between the two sides of Anambah Road, and previous land use including construction of the road and dams (Plate 16). No surface artefacts were found in the vicinity of this previously recorded site.

Table 12. Details of artefacts identified during the survey.

Site	Raw Material	Colour	Type	Length (mm)	Width (mm)	Thickness (mm)	Location*		Notes
							Easting	Northing	
Anambah AFT-01	Silcrete	Red	Flake	28	24	7	358285	6384230	Located south-west of creek
	Silcrete	Pink/grey	Flake	10	9	1	358244,	6384219	Located north-east of creek
	Silcrete	Grey	Flake	20	15	6	358244	6384219	Located north-east of creek
	IMT	Yellow	Core	30	30	30	358241	6384226	Located north-east of creek
Anambah AFT-02	IMT	Red	Flake	28	34	8	351918	6384377	
	IMT	Red	Distal Flake	23	10	4	351918	6384377	
	Silcrete	Pink	Flake	33	18	6	351918	6384377	
Anambah AFT-03	IMT	Yellow	Flake	60	45	15	357526	6384654	Retouched, possible tool, negative flake scars on dorsal
*Coordinates given in GDA 94 Zone 56									

5.1.1.2 Survey Unit 2 (Proposed Access Road)

AHIMS 37-6-3568 (Anambah SAC 11 and PAD 27)

The location of the PAD was confirmed during survey and it was identified that it partially extends into the Project Area, encompassing the terrace landform in that area.

AHIMS 37-6-3555 (Anambah IF 8 and PAD 23)

The location of this previously recorded PAD was confirmed. No additional artefacts were identified in the erosional exposure on the western boundary of the Project Area, and the site does not extend into the proposed access road.

5.1.2 Aboriginal Consultation

Les Draper from Mindaribba LALC agreed that the elevated area along creek line in SU1 was an area of PAD (Anambah Road PAD), in particular around AFT-02. He also agreed that outside of the previously recorded AHIMS sites, the route of the proposed access road (SU2), was of low archaeological potential, noting the disturbance and steepness of the terrain.

5.1.3 Summary

Areas of archaeological sensitivity were identified in SU1 (location of the proposed residential development), and SU2 (associated with the location of the proposed access road). In SU1, three new surface artefact sites were identified during the survey, adjacent to the creek line running through the middle of the proposed residential development. The entire creek line, and the second order creek in the south-west corner of the Project Area (residential development), are assessed as being archaeologically sensitive, with potential for subsurface archaeological material. AHIMS 37-6-1124 (a PAD) is considered unlikely to extend into the Project Area, based on changes in landform and past land-use.

The two previously recorded PADs AHIMS 37-6-3555 and AHIMS 37-6-3568 are considered to still be archaeologically sensitive, however only AHIMS 37-6-3568 extends into the Project Area.

6 Test Excavation Results

Archaeological test excavation took place from 6-9 May 2025, with Heritage Now and RAP representatives participating, as detailed in Table 13.

Table 13. Details of the excavation team.

Name	Organisation	Dates
Crystal Phillips	Heritage Now	6-9 May 2025
Holly Winter	Heritage Now	6-9 May 2025
Daniel Hounsell	Heritage Now	6-9 May 2025
Tiffany Jones	Heritage Now	6-9 May 2025
Luke Hickey	A1 Indigenous	7-9 May 2025
Maree Waugh	Culturally Aware	9 May 2025
Allan Talbot	Gomeroi Namoi	6-9 May 2025
Leanne Kirman	Gomery Consultants	6-9 May 2025

The aim of the test excavation was to determine the nature and extent of archaeological deposits within the Stage 1 works of the Project Area and to characterise the Aboriginal objects present, without having a significant impact on archaeological values in the Project Area.

6.1 Excavation of Pits

Test excavation was carried out in accordance with the following general methodology:

- Test Pits (TP) TP01-TP15 (mostly c.50m from the creek, although TP14 was c.80m from the undulating creek line) were excavated at 25m intervals on a systematic grid across the Anambah PAD, with adjustments to avoid placing pits directly in the creek line. The grid was orientated to be in line with the creek, to be able to test distance from the water, and if there is any correlation between artefact density and distance from the water. TP16-TP19 (c.80-100m from the creek) were excavated with 50m spacing, as the results of the first 15 pits did not indicate a high density of material that would warrant 25m or closer spacing (Figure 13).
- Test pits were 50cm x 50cm.
- The first test pit was excavated in 5cm spits, and based on the soil profile revealed in this first pit, the remainder of the test pits were excavated in 10cm spits.
- If a significant amount of archaeological material was uncovered during testing, additional pits may be placed within the grid, in consultation with Aboriginal stakeholders
- The test excavation is to be conducted in multiple stages, with the test pits within the Stage 1 works area to be excavated and analysed first. Excavation and investigation of the PAD that lies outside of Stage 1 is proposed at a later stage.
- The test pits were excavated to the maximum depth of impact or until the B Horizon or culturally sterile soil was encountered (that is, at least 20cm below spits from which Aboriginal objects were recovered).
- The soils were excavated using hand tools and sieved using a 5mm aperture sieve.
- Test excavation units were recorded using photographs, scale drawings and written descriptions of soil profiles.
- The test pits were backfilled as soon as practicable.

A total of 19 pits were excavated across the Stage 1 area. The average depth of pits was approximately 19cm, with the deepest pit (TP07) being 39cm, and the shallowest (TP09) being 9cm (Table 14). The differing depths reflected differences in location on the rolling hills and gullies of the Project Area: the deepest pit (TP07) was in a gully, and so the deeper soils may reflect collection of eroded soil at this low point, while TP09 was located at a higher elevation and had been heavily eroded, with little topsoil present.

The highest number of artefacts (n=6) was found in TP05, and this pit was expanded, in consultation with the RAPs, to a 1m x 1 m square. These additional squares were numbered 5A, 5B and 5C. As artefacts were found in situ in the north-east corner of TP05, the expansion was placed around this corner of the pit, with the original TP05 forming the south-west corner of the 1m x 1 m square.

No artefacts were recovered from the second transect (TP16-TP19).

Table 14. Pit dimensions and volume of soil excavated.

Test Pit (TP) ID	Length (m)	Width (m)	Depth (m)	Volume of Soil Excavated (m ³)
01	0.5	0.5	0.2	0.05
02	0.5	0.5	0.15	0.0375
03	0.5	0.5	0.11	0.0275
04	0.5	0.5	0.2	0.05
05	0.5	0.5	0.13	0.0325
5A	0.5	0.5	0.17	0.0425
5B	0.5	0.5	0.15	0.0375
5C	0.5	0.5	0.15	0.0375
06	0.5	0.5	0.1	0.025
07	0.5	0.5	0.39	0.0975
08	0.5	0.5	0.17	0.0425
09	0.5	0.5	0.09	0.0225
10	0.5	0.5	0.19	0.0475
11	0.5	0.5	0.28	0.07
12	0.5	0.5	0.19	0.0475
13	0.5	0.5	0.28	0.07
14	0.5	0.5	0.2	0.05
15	0.5	0.5	0.3	0.075
16	0.5	0.5	0.23	0.0575
17	0.5	0.5	0.2	0.05
18	0.5	0.5	0.2	0.05
19	0.5	0.5	0.2	0.05
Total		5.5m²		1.07m³

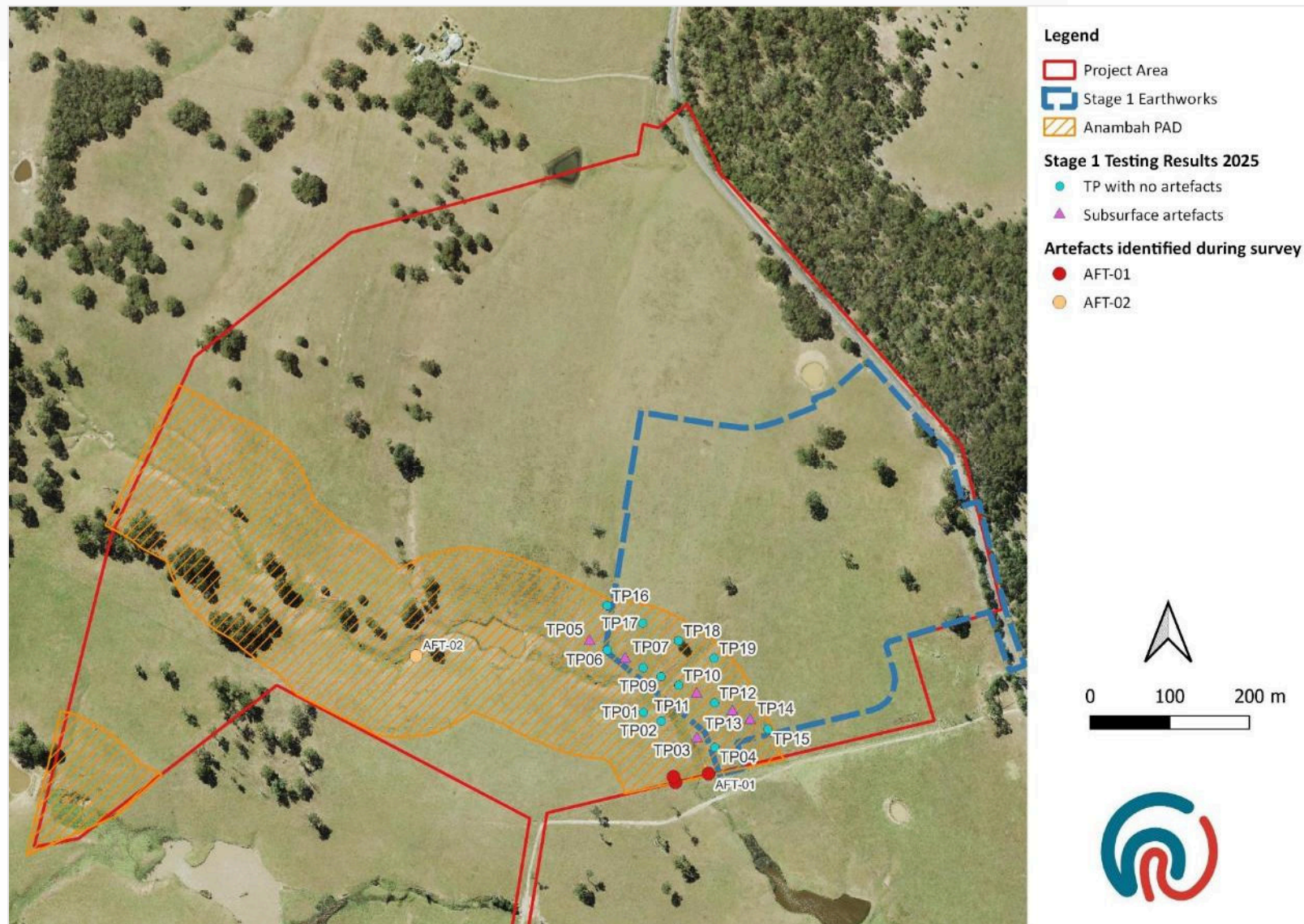


Figure 13. Location of test pits. (Source: SCP with Heritage Now additions)

6.2 Soil Characteristics of the Test Excavation Area

The majority of the test pits contained a dark brown to black silty loam A₁ Horizon from 0-10 cm, with a gradual transition to a dark brown/greyish brown silty clay A₂ Horizon (Figure 14), with frequent small subrounded gravels and ironstone nodules, with a clear transition to brown clay B Horizon. Soils were highly saturated at the time of excavation due to recent rain.



Figure 14. North section of TP05.

6.3 Artefact Results

A total of 17 artefacts were recovered during the test excavation, with an average density of 3.09 artefacts/m². Artefacts were recovered from six of the 19 pits – TP03 (n=1), TP05 (n=6), TP07 (n=1), TP11 (n=1), TP13 (n=4) and TP14 (n=1). The pit with the highest density (TP05) was expanded to a 1m x 1m pit where an additional three artefacts (one from 5A and two from 5B) were recovered (for a total artefact density of 9/m²). While this artefact sample size is relatively small, making detailed analysis difficult, the following information has been obtained (full details of the artefact analysis are provided in Appendix 4).

Artefact Types

The assemblage is dominated by broken flakes, with no complete flakes recovered (Table 15). Only one core was identified (found in TP13). TP13 also contained two large cobbles which had polished surfaces suggesting use as grindstones, as well as pecking and damage associated with use as hammerstones. The assemblage also includes two tools, a broken geometric microlith and a retouched flake with evidence of usewear (Figure 15-Figure 17).

Table 15. Artefact types identified during the test excavation.

Artefact Type	Count	Percent
Flakes (broken)	12	70.59%
Tool (broken)	2	11.76%
Cobble (Hammerstone)	2	11.76%
Core	1	5.88%
Total	17	100.00%

Raw Materials

The most common raw material identified was IMT (indurated mudstone/tuff), followed by silcrete (Table 16).

Table 16. Raw materials identified during the test excavation.

Raw material	Count	Percent
IMT	8	47.06%
Silcrete	6	35.29%
Basalt	1	5.88%
Chert	1	5.88%
FGS	1	5.88%

Cortex

The majority of the artefacts have no cortex (Table 17). The IMT artefacts with cortex were water rolled, suggesting that they were sourced from the nearby Hunter River and its tributaries, which is a known source of IMT. The two artefacts with 100% cortex are the cobbles that have been used as hammerstones/grindstones.

Table 17. Cortex percentages identified during the test excavation.

Cortex	Count	Percent
0	10	58.82%
<25%	3	17.65%
>50%	2	11.76%
100%	2	11.76%
Total	17	100.00%

Vertical Distribution

The majority of artefacts were found in spit 2 of the test pits (10-20 cm below the surface), within the silty clay A₂ Horizon (Table 18). This is possibly from downward movement of artefacts through the soil over time. Few artefacts were found in spit 3, as most of the pits were 20cm or less in depth, and therefore did not have a third spit. The two artefacts found within spit 3 include the largest artefact (over 1kg in weight) of the assemblage, and this is likely a product of size sorting; and an artefact from TP07, which was the deepest pit excavated during test excavation and was located in a gully.

Table 18. Artefact count by spit.

Spit	Count	Percent
0-10 cm	3	17.65%
10-20 cm	12	70.59%
20-30 cm	2	11.76%
Total	17	100%



Figure 15. Artefacts from TP13, including hammerstones and a bidirectional chert core. (Source: Heritage Now)



Figure 16. Selection of artefacts from TP05 and expansion pits, dorsal view. (Source: Heritage Now 2025)



Figure 17. Detail of artefact from TP05, dorsal view, with evidence of retouch and use. (Source: Heritage Now 2025)

6.4 Comparison with Other Sites in the Lower Hunter

Other excavations within 200m of a 1st or 2nd order stream at Rutherford, Penn Park and Berry Park contain similar low artefact densities (Table 19). This is in line with the stream model proposed by Kuskie (2015), which predicts higher densities with stream order and the highest densities within 300m of wetlands.

The density of Anambah PAD is slightly higher than other sites in a similar landform, with 3.09 artefacts/m². One site previously investigated by Heritage Now, which contained an uncharacteristically high artefact density based on the stream model proposed by Kuskie, was Viney Creek in Beresfield (Heritage Now Pty Ltd 2024b). Artefact analysis of this site determined that there was a raw material source of silcrete nearby, and this factor rather than stream model had contributed to the high density of the site. During survey of Anambah PAD, some silcrete outcrops were identified near the location of Anambah AFT-01. This combination of resource zones may have contributed to a slightly higher density than other sites of the same landform in the region. However, the small sample size means that it is not possible to determine if this variation is statistically significant.

6.4.1 Interpretation

The low artefact density of the site is typical of short-term base camps and transitory use of the environment by Aboriginal people. It is possible that the area was traversed as people travelled between resource zones, such as the quarry site to the south of the Project Area, and the Hunter River to the north, or between areas of cultural significance, such as the ceremony site to the west. The site forms part of a broader cultural landscape that was occupied by Aboriginal people in the past.

As no artefacts were found in the transect furthest from the creek line, it is interpreted that activity in the Project Area was focused closer to the creek, with low potential for artefacts beyond 100m from the creek line.

Table 19. Results of archaeological excavations in the Lower Hunter.

Site name Site number	Distance from Project Area	Landform	Artefact Count	Average Artefact Density (m ²)	Average Artefact Density (m ³)	Reference
Anambah PAD AHIMS 37-6-4446	Current Project Area	50-200 m from 1st or 2nd order stream	17	3.09	15.89	
Penn Park 1 AHIMS 37-6-0989	3km south	50-200m from 1st or 2nd order stream	2	0.18	N/A	(Ruig 1997)
McFarlanes A01 and A02 AHIMS 38-4-2040 AHIMS 38-4-2041	20km south-east	50-200m from 1st or 2nd order stream	12	0.8	1.3	(Heritage Now 2021)
Rutherford Rail 5 and 6 AHIMS 37-6-2245 AHIMS 37-6-2246	6.5km south	50-200m from 1st or 2nd order stream	9	0.6	8.3	(Heritage Now 2022)
HN-SL-08 AHIMS 37-6-4247	5.5km south-west	50-200m from 3 rd order creek	1	0.67	2	(Heritage Now 2022)
Viney Creek 1 AHIMS 38-4-0550	20km south-east	50-200m from 3 rd order stream	925	61.8	361	(Heritage Now 2024)
Stony Creek Bank AHIMS 38-4-1616	7.5km south-east	50-200 m from 4th order stream	1,442	51.5	50	(RPS 2013)
Thornton AS1 AHIMS 38-4-0748	19km south-east	Wetland	924	142	434	(Heritage Now 2024)
Wentworth Swamps Elevated Area AHIMS 38-4-1617	8.5km south-east	Wetland	2,819	128	320	(RPS 2013)
Black Hill AHIMS 38-4-0376 AHIMS 38-4-0410	20km south-east	Wetland	22,921	N/A	546 (Black Hill 2) 209.5 (Woods Gully)	(Kuskie and Kamma 2000)

6.4.2 Summary

The site contains a low-density artefact scatter comparable to other sites near lower order streams in the lower Hunter Valley, reflective of short term or transitory camps.

7 Significance Assessment and Aboriginal Cultural Values

Cultural heritage refers to the tangible and intangible values that we choose to pass on to future generations. In order to identify the values worth passing on, a significance assessment needs to be undertaken. The significance assessment needs to: identify the range of values present across the Project Area and assess their importance.

7.1 Methodology

Identifying the Aboriginal cultural values is part of the significance assessment process and is guided by the Burra Charter and the *Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW*.

There are four recognised classes of values under the Burra Charter (Australia ICOMOS 2013):

- Social,
- Historical,
- Aesthetic, and
- Scientific.

Within this significance assessment, Aboriginal cultural values are captured within social, historical and aesthetic values. The archaeological values are contained within scientific values.

Social value refers to the spiritual, traditional, historical or contemporary associations that Aboriginal people have for place. Historical value refers to the associations of a place with a historically important person, event, phase or activity in the Aboriginal community. Aesthetic value refers to the sensory, scenic, architectural and creative aspects of the place.

Archaeological values refer to the importance of the landscape, area, place or object because of its rarity, representativeness and the extent to which it may inform our understanding of Aboriginal culture.

7.1.1 Aboriginal Cultural Values Methodology

Aboriginal cultural values are identified through the Aboriginal consultation process. Formal opportunities for the Aboriginal community to contribute to identifying cultural values are provided in the ACHA methodology review period, during fieldwork and during the draft report review period. In addition, RAPs are invited to provide feedback at any time through the consultation process, by phone or in writing (email or letter).

7.1.2 Archaeological (Scientific) Values Methodology

Archaeological (scientific) values relate to whether the Project Area can contribute to our understanding of Aboriginal culture. Under the *Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW*, archaeological values are to be considered within the below sub-categories:

- Representativeness,
- Rarity,
- Research potential, and
- Educational potential.

Significance is expressed as grades: low, moderate or high.

7.2 Aboriginal Cultural Values Assessment

Les Draper of Mindaribba LALC communicated during the archaeological surveys of the Project Area that all of the artefact sites were culturally significant, showing evidence of Aboriginal people living along the creek terraces.

The areas of moderate and high cultural value identified in the assessment are highlighted in Figure 18.

7.3 Historical and Aesthetic Values Assessment

The Project Area is not known to be associated with a historically important person, event, phase or activity in the Aboriginal community, and is therefore of low historical value.

The Project Area is of low aesthetic value in terms of sensory, scenic, architectural or creative aspects.

7.4 Archaeological Values Assessment

This section assesses the archaeological values of the Project Area according to the criteria in the *Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW*.

The artefact sites and PADs identified within the Project Area are typical of the archaeological record in the Hunter and are therefore not rare. However, these site types have research and educational potential to expand our knowledge of Aboriginal occupation in the area.

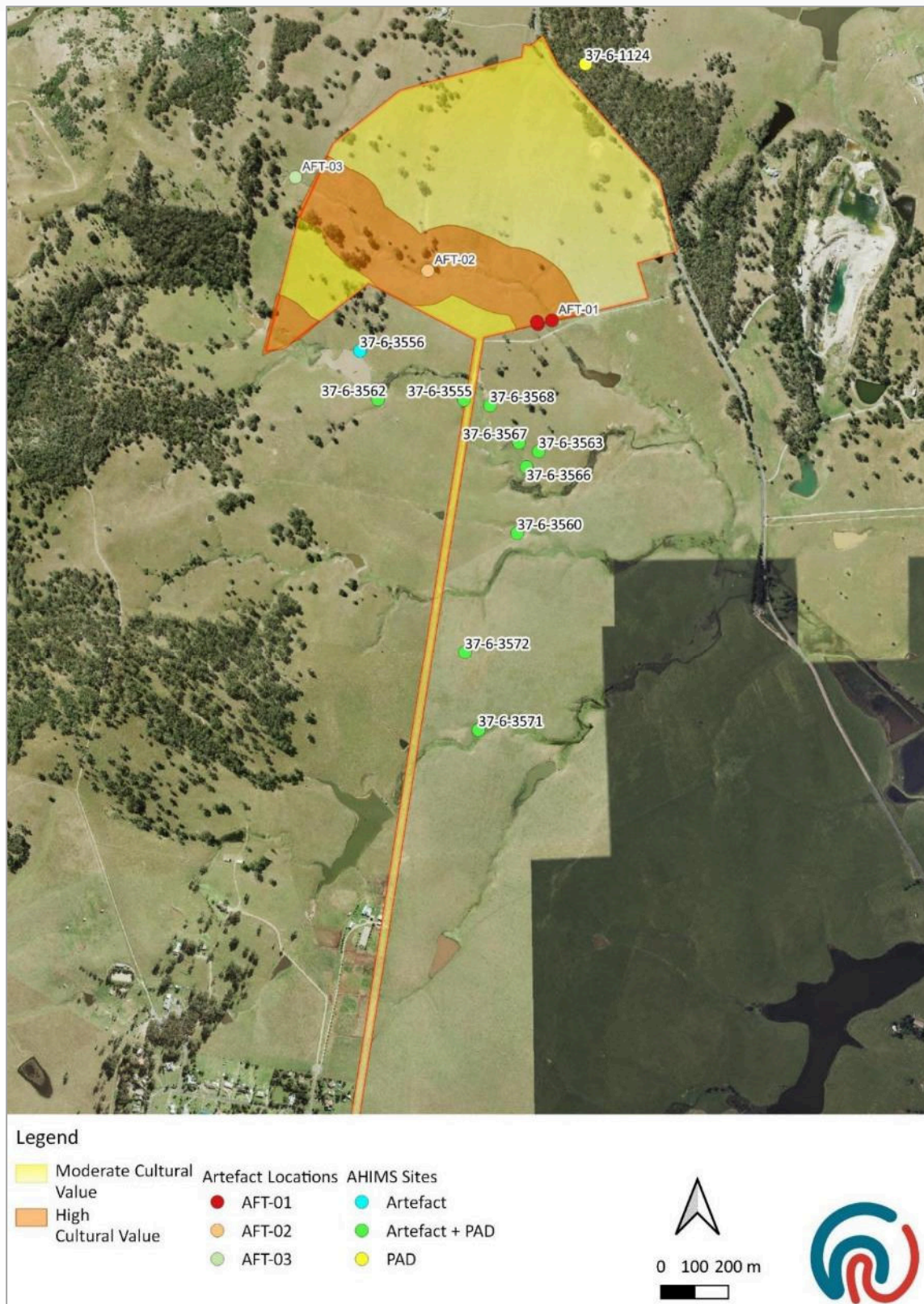


Figure 18. Illustration of Aboriginal cultural values identified within the Project Area. (Source SCP aerial with Heritage Now additions)

7.4.1 Anambah PAD (AHIMS 37-6-4446) – for the portion excavated

Archaeological investigations of the Anambah PAD thus far have demonstrated that the site is of low to moderate archaeological significance.

- It is comparable to other sites in the region, having similar density and composition to other sites in the Lower Hunter Valley
- There may be further archaeological material further along the creek line, however excavation results thus far indicate that the research potential of the site is low due to low artefact numbers. The investigations have also helped to refine models of occupation of the area
- The site has educational value, as providing examples of Aboriginal objects and there is opportunity for interpretation in the green spaces in the subdivision.

However, as PADs can vary in artefact densities and there are other portions of this PAD (outside the Stage 1 Area), this significance assessment is only for the excavated portion of the site and significance will need to be revisited should additional subsurface archaeological excavation be undertaken in future stages of the development.

7.4.2 Proposed Residential Development Area – Anambah AFT-01, AFT-02 and AFT-03

Overall, the newly recorded and previously recorded sites are of low to moderate significance in terms of scientific (archaeological) values. This is because:

- The sites have moderate representative value within a regional context, as they are typical of the region and have assisted with refining site modelling around the Hunter. There is room for comparative study between the lower order streams within the residential development area versus the third order stream of the proposed access road.
- The raw material and artefact types at the sites are found elsewhere in the Hunter and are not rare.
- The areas of PAD associated with these artefacts have moderate research value.
- The sites have educational value, as providing examples of Aboriginal objects and there is opportunity for interpretation in the green spaces in the subdivision.

7.4.3 Proposed Access Road – AHIMS 37-6-3568 and AHIMS 37-6-3555

The site card for AHIMS 37-6-3568 indicates that test excavation results uncovered a subsurface scatter of moderate density, typical for the Hunter region. It is unclear how much of the subsurface archaeology remains intact; however, the site card states that it retains high archaeological potential.

The site card for AHIMS 37-6-3555 indicates that the site is assessed as being of low to moderate archaeological significance. Information available on the investigations that have taken place thus far indicate that the sites contain low artefact densities. However, they retain some archaeological potential, having not been fully salvaged.

7.5 Summary: Statement of Significance

Overall, the newly recorded Aboriginal sites within the proposed residential development area of the Project Area are assessed as having moderate archaeological significance. Around the route of the proposed access road, the previously recorded PAD (AHIMS 37-6-3568) retains high archaeological potential and is of moderate archaeological significance. AHIMS 37-6-3555 is of low to moderate archaeological significance. All of the identified sites and PADs are of high cultural significance, and the Project Area is of low historical and aesthetic significance (Table 20).

Table 20. Summary of archaeological significance.

Significance	Site	Site Description
Low-Moderate – Stage 1 Area only (to be re-assessed in future development stages)	AHIMS 37-6-4666 (Anambah PAD)	PAD along the terraces either side of a 1 st order creek running approximately north-west to south-east. Low density subsurface artefacts identified during test excavation of Stage 1 works.
Low-Moderate	AHIMS 37-6-4425 (Anambah AFT-01)	Four artefacts found across a 40m x 15m area within 30m of a 1 st order creek, associated with the larger area of Anambah PAD.
Low-Moderate	AHIMS 37-6-4428 (Anambah AFT-02)	Three surface artefacts eroding from a creek terrace, associated with the large area of Anambah PAD.
Low	AHIMS 37-6-4427 (Anambah AFT-03)	Isolated find on an eroded creek bank, likely not in situ. Site is 50m west of the current Project Area, but is also associated with the larger area of Anambah PAD.
Low-moderate	AHIMS 37-6-3555 (Anambah IF8)	Area of PAD west of the access road; not within the Project Area. The site card indicates that it has low-moderate significance.
Moderate	AHIMS 37-6-3568 (Anambah SAC 11)	Area of confirmed subsurface deposit of moderate significance typical of Lower Hunter region. It has been partially impacted by testing but retains high archaeological potential. The site is partially within proposed access road works.

8 Impact Assessment and Mitigation

This section assesses the potential impact of the proposed works in relation to Aboriginal heritage values in the Project Area and provides options for mitigating loss of Aboriginal cultural values.

8.1 Proposed Works

The proposal is for a staged subdivision of approximately 900 residential allotments and open space areas (Figure 19). Included in this development is a new access road to connect the new development to River Road, and ultimately the New England Highway. This access road is likely to be a single lane with additional room for a shoulder on either side. The proposal will also require additional improvements to the Anambah Road/A43 interchange for the additional road traffic associated with the subdivision.

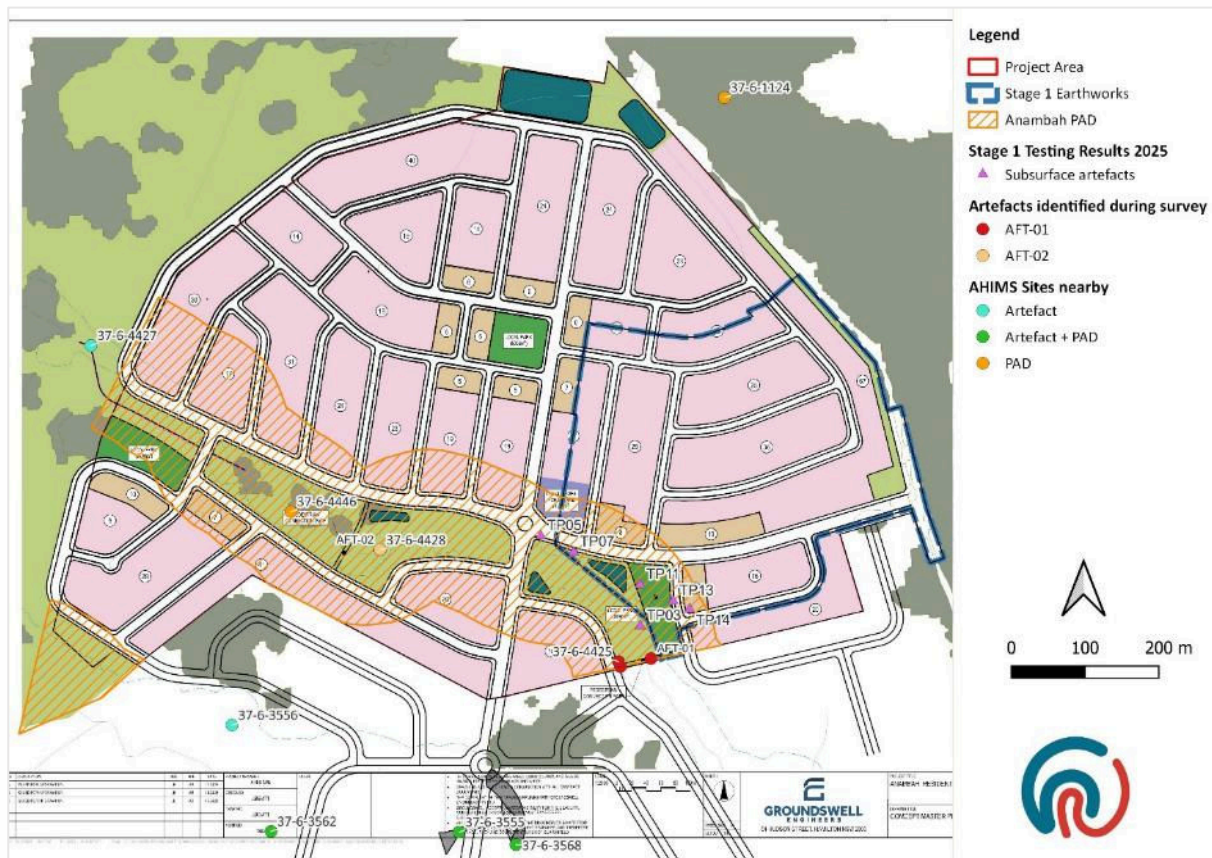


Figure 19. Indicative plan of the residential development. (Source: Provided by client)

8.2 Impact Assessment

This section addresses the potential impacts to Aboriginal cultural values as result of the proposed works (Figure 19).

Of the Aboriginal sites observed as part of the survey, a number extend into/are within the Project Area and so have the potential to be subject to direct impacts, specifically:

- Anambah Road AFT-01 (AHIMS 37-6-4425);

- Anambah Road AFT-02 (AHIMS 37-6-4428);
- Anambah Road AFT 03 (AHIMS 37-6-4427);
- Anambah PAD (AHIMS 37-6-4446); and
- AHIMS 37-6-3568 (PAD).

A number of other sites are within the vicinity of the Project Area but do not extend into it, and so will not be subject to direct impact, specifically:

- AHIMS 37-6-1124 (PAD); and
- AHIMS 37-6-3555 (PAD).

8.2.1 AHIMS 37-6-4425 (Anambah Road AFT-01), AHIMS 37-6-4428 (Anambah Road AFT-02), AHIMS 37-6-4446 (Anambah Road AFT-03)

The surface artefacts identified are within the riparian zone of the subdivision. Works in the riparian zone include revegetation and stabilisation works, which are at risk of impacting the sites.

8.2.2 AHIMS 37-6-4446 Anambah PAD in Stage 1 Area

The Stage 1 Area has been subject to archaeological testing and has identified subsurface Aboriginal objects. As vegetation is cleared for the development, it is possible that additional artefacts will be exposed.

8.2.3 AHIMS 37-6-4446 Anambah PAD outside Stage 1 Area

The portions of this site outside the Stage 1 Area have not been subject to subsurface archaeological testing and this would need to be undertaken should future impacts be proposed.

8.2.4 AHIMS 37-6-1124 (PAD1 Rutherford)

AHIMS 37-6-1124 is a PAD site, which is approximately 80m north of the residential development section of the proposed Project Area. It does not extend into the Project Area and so it will not be directed impacted by the proposed residential development.

8.2.5 AHIMS 37-6-3555 (Anambah IF 8 and PAD 23)

AHIMS 37-6-3555 is an artefact and PAD site, which is approximately 6m west of the proposed impact zone. It will not be directed impacted by the proposed River Road access route.

8.2.6 AHIMS 37-6-3568 (Anambah SAC 11 and PAD 27)

AHIMS 37-6-3568 is an artefact and PAD site, which extends into the proposed impact zone. Part of the PAD extent will be directly impacted by the proposed River Road access route, which will require vegetation clearance, widening and sealing.

8.2.7 Summary of Impacts for Stage 1 Development Area

Stage 1 will only impact the portion of AHIMS 37-6-4446 Anambah PAD which has been subject to archaeological test excavation (Table 21). It is possible that there will be additional surface artefacts associated with this site once vegetation is cleared during the development works.

Table 21. Summary of impact assessment for Stage 1.

AHIMS Site Number	Type of Harm	Degree of Harm	Consequence of Harm
37-6-4446	Direct impact	Partial	Partial Loss of Value

8.2.8 Summary of Impacts for Future Stages and River Road Access Route

The future stages of the development and creation of the River Road access route has the potential to impact 5 Aboriginal sites (Table 22).

Table 22. Summary of impact assessment for future stages and River Road access route.

AHIMS Site Number	Type of Harm	Degree of Harm	Consequence of Harm
37-6-4425	Direct impact	Complete	Total Loss of Value
37-6-4428	Direct impact	Complete	Total Loss of Value
37-6-4427	Direct impact	Complete	Total Loss of Value
37-6-4446	Direct impact	Partial	Partial Loss of Value
37-6-3568	Direct impact	Partial	Partial Loss of Value
37-6-3555	Possible to avoid impact by fencing	Not applicable	Not applicable

8.3 Mitigation

The below strategies have been developed to mitigate harm and/or loss of Aboriginal cultural values as a result of the proposed works.

8.3.1 Mitigation of Impacts to sites in the Stage 1 Boundary

The results of the test excavation indicate that the Stage 1 works area contains a low-density artefact scatter. The test excavation has provided sufficient information regarding the presence and composition of artefacts within this section of the PAD. The PAD in this area is of low density and is assessed as being of low to moderate archaeological significance. An AHIP for the impacts to the PAD within the Stage 1 works area is required, prior to the commencement of any ground disturbing works. Based on the results of the test excavation, no further archaeological investigation of the PAD within the Stage 1 works area is warranted. However, community collection is to be undertaken once vegetation has been removed as part of the development works.

8.3.2 Mitigation of Impacts to sites in later stages of Residential Development - AHIMS 37-6-4425 (Anambah Road AFT-01), AHIMS 37-6-4428 (Anambah Road AFT-02), AHIMS 37-6-4446 (Anambah Road AFT-03) and AHIMS 37-6-4446 Anambah PAD

Before the commencement of ground disturbing works associated with later stages of development, additional archaeological testing will be required within the areas of Anambah PAD (AHIMS 37-6-4446) to be impacted, to understand the research and educational potential of these sites and to expand our knowledge of Aboriginal occupation in the area; in particular, the use of lower order streams, and potentially localised sources of silcrete and stages of tool manufacture, if the silcrete outcrops were used for quarrying.

Archaeological testing is to be undertaken within the footprint of the PAD which will be disturbed by the works, prior to ground disturbing works taking place identify if salvage excavation is warranted.

The surface artefacts (AHIMS 37-6-4425, AHIMS 37-6-4427 and AHIMS 37-6-4428) are within the riparian zone and will not be directly impacted by development. However, there is a risk of inadvertent impacts due to their proximity to the development. It is recommended that prior to commencement of works, hazard fencing be placed around each site with a 5m buffer zone.

8.3.3 Mitigation of Impacts to sites in the River Road Access Route AHIMS 37-6-3568 and AHIMS 37-6-3555

Before ground disturbing works begin for the proposed River Road access route, the extents of these sites/PADs (with a 5m buffer) should be fenced off to avoid any impacts.

AHIMS 37-6-5555 does not extend into the mapped road corridor, and if it can be avoided then it will require fencing. If the site cannot be avoided, archaeological testing is required to identify the nature and extent of the identified PAD.

If the PAD extent of AHIMS 37-6-3568 is to be impacted, archaeological salvage of the site would be required. This would be conducted under the provision of an AHIP.

8.3.4 General mitigation strategies

All Aboriginal sites within the residential development and access road are to be clearly marked on all relevant construction drawings, along with buffers and fencing, as relevant.

All on-site personnel are to be made aware of their obligations under the *National Parks and Wildlife Act 1974*. This includes protection of Aboriginal sites and the reporting of any new, or suspected, Aboriginal heritage sites. This may be done through an on-site induction or other suitable format.

8.4 Consideration of Sustainable Development

Under the NSW *Protection of the Environmental Administration Act 1991*, ecologically sustainable development principles (ESD) are to be considered in the assessment of environmental impacts; and this includes impacts to heritage. The consideration of ESD principles is required under the *Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in New South Wales 2010*. In particular, the precautionary principle and the principle of inter-generational equity are to be considered where there are proposed impacts to the environment (which includes heritage).

8.4.1 Precautionary Principle

The precautionary principle states that if there are threats of serious or irreversible damage to the environment, then a lack of full scientific certainty should not be used as a reason to postpone measures to prevent environmental degradation.

The proposed works do not pose a threat of serious or irreversible damage to the environment. Both the surface artefact sites and PADs are represented elsewhere in the local area and the mitigation measures proposed provide acceptable conservation outcomes for the Aboriginal sites.

8.4.2 Inter-generational Equity & Cumulative Harm

The principle of inter-generational equity states that the present generation should ensure the health, diversity and productivity of the environment are maintained or enhanced for the benefit of future generations. Cumulative harm is understanding the cumulative effects of the Proposal.

The mitigation measures proposed will ensure that the Aboriginal sites are either conserved in situ and avoided, or are salvaged and conserved ex situ and thus satisfies the principle of inter-generational equity.

8.5 AHIP Methodology

The AHIP is for the community collection and other actions causing harm of any artefacts associated with Anambah PAD (AHIMS 37-6-4446) within the Stage 1 works for 559 Anambah Road (Figure 20).

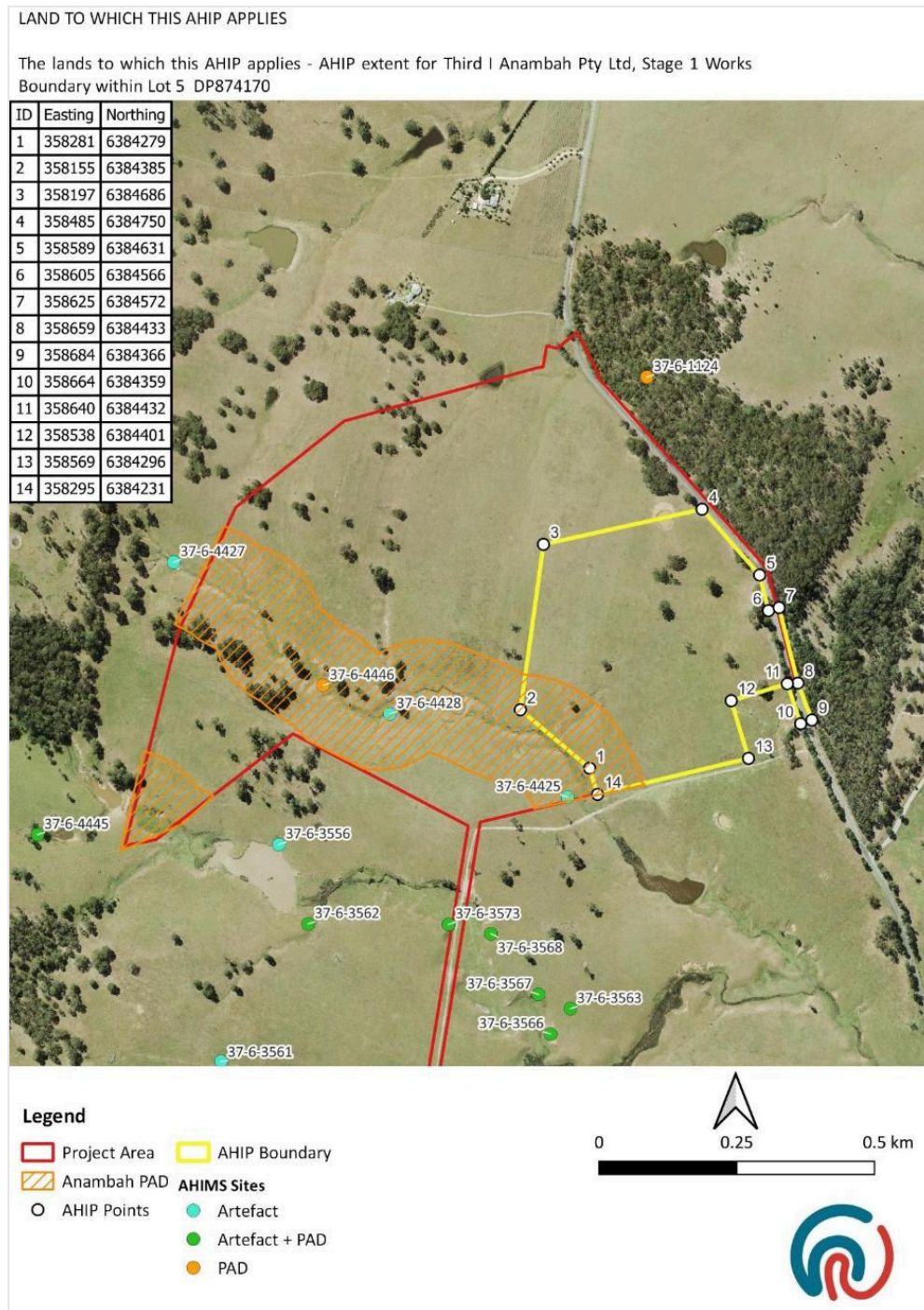


Figure 20. Proposed AHIP boundary, covering the Stage 1 works within the Project Area. (Source: SCP aerial with Heritage Now additions)

8.5.1 Community Collection

Once vegetation has been removed, but before the commencement of ground disturbing works, the AHIP Area will be inspected in consultation with a RAP representative. If surface artefacts are identified, they will be flagged. The position will be recorded by GPS and notes taken on their landform context. The artefacts will be bagged and labelled. Collected artefacts will temporarily be stored at the Heritage Now office for analysis and will be permanently stored at a location decided upon during RAP consultation. The artefacts will be analysed and documented in a report to Heritage NSW and distributed to the RAPs.

8.5.2 Term of the AHIP

The term of the AHIP is 10 years.

8.5.3 Previous or Current AHIPs

There are no previous or current AHIPs relating to this Project Area.

8.5.4 Artefact Storage and ongoing Curation

Artefacts will be temporarily stored at 1/48 Kalaroo Road, Redhead NSW 2290 in a sealed storage container. Once analysed and documented a suitable location will be selected for the reburial of the artefacts on site under the Code of Practice.

8.5.5 AHIP Exclusions

The AHIP will not include the disturbance of human remains. In the very unlikely event that human remains, or suspected human remains are uncovered during the development, then works in that area are to stop and the area is to be cordoned off. The project manager is to contact the NSW Police to establish whether the area is a crime scene. If it is not a crime scene, and the remains are determined to be Aboriginal ancestral remains, then Heritage NSW is to be notified via the Environment Line on 131 555, and management measures are to be devised in consultation with the RAPs. Works are not to recommence in the area until the management measures have been implemented.

8.5.6 Other matters

There is no restricted information associated with this report and no confidential information. Heritage Now Pty retains the copyright of this report.

9 Conclusions and Recommendations

The proposed residential development portion of the Project Area was surveyed in December 2023 by Heritage Now and Mindaribba Local Aboriginal Land Council. This survey identified three artefact sites along the creek terrace of a first order drainage line which runs through the Project Area. As a result, the entire creek terrace was identified as a sensitive landform and an area of Potential Archaeological Deposit.

A subsequent survey was undertaken in July 2024 by Heritage Now and Mindaribba Local Aboriginal Land Council for the proposed River Road Access Route. There are several previously recorded sites south of the Project Area. AHIMS 37-6-3568 has surface artefacts and Potential Archaeological Deposit which partially overlaps the road corridor. AHIMS 37-6-3555 is outside of the road corridor. No new sites were identified in the River Road Access Route.

Archaeological test excavation of the portion of the Potential Archaeological Deposit (registered as AHIMS 37-6-4446) within the proposed Stage 1 works area was completed by Heritage Now in May 2025 with representatives from Culturally Aware, Gomeroi Namoi, Gomery Cultural Consultants and A1 Indigenous. The test excavation was limited to the Stage 1 portion of the development as this is the first stage to be developed for residential lots.

Test excavation within the Stage 1 works area confirmed that AHIMS 37-6-4446 contains a low-density artefact scatter (3.09 artefacts per square metre), typical of terraces adjacent to lower order streams in the lower Hunter Valley. It is likely that this artefact scatter continues along the remainder of the creek line, and will likely be impacted by later proposed stages of development.

An AHIP methodology has been developed for the Stage 1 works and is outlined in Section 8.3.1.

Heritage Now provides the following recommendations which has been separated into Stage 1, Future Stages and General Recommendations:

Recommendations for Stage 1

AHIMS 37-6-4446

Anambah Road Potential
Archaeological Deposit

Stage 1 portion only

The area of Potential Archaeological Deposit will be impacted by the residential development. Archaeological testing within the Stage 1 boundary has been completed, which identified a low-density artefact scatter. An Aboriginal Heritage Impact Permit for the Stage 1 works is required prior to the commencement of ground disturbing works. Based on the results of the test excavation, no further archaeological investigation of the Potential Archaeological Deposit within the Stage 1 works area is warranted. However, community collection is to be undertaken once vegetation has been cleared in this area, but before commencement of construction excavation.

Recommendations for Future Stages including River Road Access Route

AHIMS Site	Recommendations
AHIMS 37-6-4425 Anambah AFT-01 AHIMS 37-6-4428 Anambah AFT-02 AHIMS 37-6-4427 Anambah AFT-03	The surface artefacts are within the riparian zone and are at risk of impact from re-vegetation and stabilisation works to the riparian corridor. An exclusion zone is to be established around the artefact sites prior to the commencement of ground disturbing works, to reduce inadvertent impacts to sites. If sites cannot be avoided, then an Aboriginal Heritage Impact Permit for the collection of the surface artefacts is required, and no ground disturbing works are to be undertaken in these areas without further archaeological investigation, as per the below recommendation.
AHIMS 37-6-4446 Anambah Road Potential Archaeological Deposit	Archaeological testing will be required prior to any ground disturbance beyond the Stage 1 works AHIP boundary.
AHIMS 37-6-3568 Anambah SAC 11 and Potential Archaeological Deposit 27	The area of Potential Archaeological Deposit partially extends into the River Road Access Route. It can likely be avoided by the roadworks, but if it cannot be avoided, then an Aboriginal Heritage Impact Permit for community collection and salvage within the Project Area is required.
AHIMS 37-6-3555 Anambah IF 8 and Potential Archaeological Deposit 23	The surface artefacts and Potential Archaeological Deposit are outside the River Road Access Route and will not be directly impacted by development. The current fence line needs to remain in place to avoid the risk of inadvertent impacts. If the fence needs to be removed during works then an exclusion zone will need to be established.

General Recommendations

All Sites General mitigation measures	All Aboriginal sites within the residential development and access road are to be clearly marked on all relevant construction drawings, along with buffers and fencing, as relevant. All on-site personnel are to be made aware of their obligations under the <i>National Parks and Wildlife Act 1974</i> . This includes protection of Aboriginal sites and the reporting of any new, or suspected, Aboriginal heritage sites. This may be done through an on-site induction or other suitable format.
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11 Plates



Plate 1. Southern boundary, looking north-west across the Project Area, showing a series of ridges and valleys. (Source: Heritage Now 2023)



Plate 2. View from the south-west section of the Project Area towards the creek line to the north, and the ridge in the centre of the Project Area in the distance. (Source: Heritage Now 2023)



Plate 3. View to the north-west across the ridge line. (Source: Heritage Now 2023)



Plate 4. Area of exposure along the creek; view to the south-west. (Source: Heritage Now 2023)



Plate 5. Dam near Anambah Road. (Source: Heritage Now 2023)



Plate 6. Sandstone outcrops along a drainage line; view to the west. (Source: Heritage Now 2023)



Plate 7. Sandstone outcrops along a ridge line; view to the south. (Source: Heritage Now 2023)



Plate 8. Location of Anambah Road AFT-01; view to the east towards the creek line and Anambah Road. (Source: Heritage Now 2023)



Plate 9. Location of Anambah Road AFT-01; view to the west towards the creek line and area of PAD. (Source: Heritage Now 2023)



Plate 10. Anambah Road AFT-01 artefact found on eastern creek bank. (Source: Heritage Now 2023)



Plate 11. Anambah Road AFT-01, IMT core found on western creek bank. (Source: Heritage Now 2023)



Plate 12. Location of Anambah Road AFT-02; view to the south. (Source: Heritage Now 2023)



Plate 13. Artefacts identified at Anambah Road AFT-02. (Source: Heritage Now 2023)



Plate 14. Location of Anambah Road AFT-03; view to the west. (Source: Heritage Now 2023)



Plate 15. Anambah Road AFT-03, dorsal view of artefact. (Source: Heritage Now 2023)



Plate 16. Anambah Road; view to the north, showing the recorded location of AHIMS 37-6-1124 on the lower slope to the right. (Source: Heritage Now 2023)

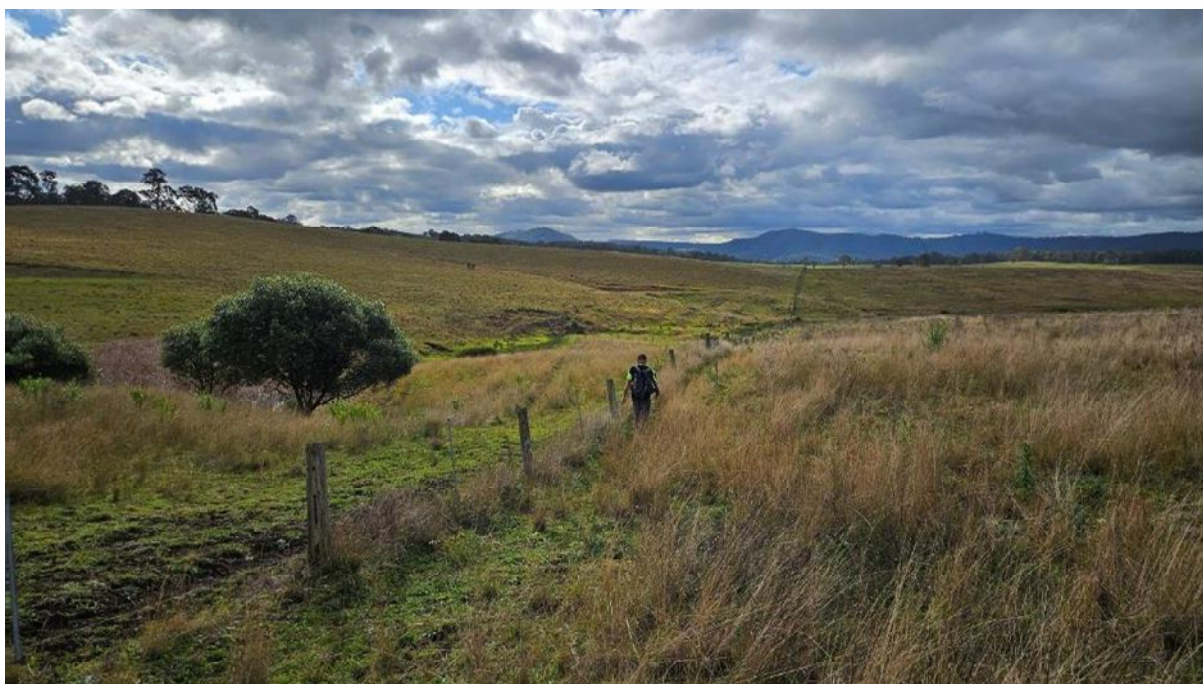


Plate 17. General view of the undulating hills in Survey unit 2, view to north. (Source: Heritage Now 2024)



Plate 18. Undulating Hills Survey Unit 2, view to south. (Source: Heritage Now 2024)



Plate 19. Example of a drainage line in Survey unit 2. (Source: Heritage Now 2024)



Plate 20. The unsealed vehicle track. (Source: Heritage Now 2024)



Plate 21. Introduced mixed stone inclusions visible in the unsealed vehicle track. (Source: Heritage Now 2024)



Plate 22. Ground exposure along a fence line, showing A horizon soils. (Source: Heritage Now 2024)



Plate 23. Erosional gully showing B horizon soils. (Source: Heritage Now 2024)



Plate 24. Ground exposure from animal trampling. (Source: Heritage Now 2024)



Plate 25. Ground disturbance from livestock trampling. (Source: Heritage Now 2024)



Plate 26. Water culvert for a third order creek, facing east. (Source: Heritage Now 2024)



Plate 27. General view from the top of survey unit 2, facing north-west. (Source: Heritage Now 2024)



Plate 28. Erosion on the western side of Survey unit 2. (Source: Heritage Now 2024)



Plate 29. A horizon soils with local stone inclusions in Survey unit 2. (Source: Heritage Now 2024)



Plate 30. Erosion exposure along fence line SU2 showing A horizon soil and local stone inclusions. (Source: Heritage Now 2024)

Appendix 1 Aboriginal Consultation

Aboriginal Consultation Log

Contact	Organisation	Contacted by	Organisation	Method	Date	Comment/response
Agency Letter						
Sir or Madam	Native Title Services Corp	Joven Sanchez	Heritage Now	Email	24/04/2024	
Sir or Madam	Register of Aboriginal Owners	Joven Sanchez	Heritage Now	Email	24/04/2024	
Sir or Madam	National Native Title Tribunal	Joven Sanchez	Heritage Now	Email	24/04/2024	
Sir or Madam	Heritage NSW	Joven Sanchez	Heritage Now	Email	24/04/2024	
CEO	Mindaribba Local Aboriginal Land Council	Joven Sanchez	Heritage Now	Email	24/04/2024	
Sir or Madam	Maitland City Council	Joven Sanchez	Heritage Now	Email	24/04/2024	
Sir or Madam	Hunter Local Land Services	Joven Sanchez	Heritage Now	Email	24/04/2024	
Agency Letter Response						
	Heritage Now		National Native Title Tribunal	Email	24/04/2024	"To enable us to complete the search appropriately and adequately, please fill out the attached search form "
Jenna Weston	Heritage Now	Rachel Rewiri	Register of Aboriginal Owners	Email	24/04/2024	"We suggest you contact the Joint Management Coordinator for the Worimi Conservation Lands, Nadine Russell (to ascertain whether the Boards of Management are interested in the project), as well as Mindaribba Local Aboriginal Land Council"
	Heritage Now	Louise Cassidy	Hunter Local Land Services	Email	24/04/2024	"Hunter LLS do not have a full list of all of the relevant Aboriginal Traditional Custodians that are within your project area"

Aboriginal Consultation Log

Contact	Organisation	Contacted by	Organisation	Method	Date	Comment/response
Jenna Weston	Heritage Now	Barry Gunther	Heritage NSW	Email	29/04/2024	Sent list of potential Aboriginal stakeholders
	Heritage Now	Clare James	Maitland City Council	Mail	29/05/2024	Mailed a list of organisations to contact
Expressions of Interest Letters						
Carolyn Hickey	A1 Indigenous Services	Joven Sanchez	Heritage Now	Email	7/05/2024	
Christine Paul	Aboriginal Native Title Consultants	Joven Sanchez	Heritage Now	Email	7/05/2024	
Ashley, Gregory, & Adam Sampson	AGA Services	Joven Sanchez	Heritage Now	Email	7/05/2024	
Aliera French	Aliera French Trading	Joven Sanchez	Heritage Now	Email	7/05/2024	
Darren McKenny	Arwarbukarl Cultural Resource Association, Miromaa Aboriginal Language and Technology Centre	Joven Sanchez	Heritage Now	Email	7/05/2024	
Kerrie Brauer	Awabakal & Guringai	Joven Sanchez	Heritage Now	Email	7/05/2024	
Tracey Howie	Awabakal & Guringai	Joven Sanchez	Heritage Now	Email	7/05/2024	
Peter Leven	Awabakal Descendants Traditional Owners Aboriginal Corporation	Joven Sanchez	Heritage Now	Email	7/05/2024	
Kerrie Brauer	Awabakal Traditional Owners Aboriginal Corporation	Joven Sanchez	Heritage Now	Email	7/05/2024	
Donna & George Sampson	Cacatua Culture Consultants	Joven Sanchez	Heritage Now	Email	7/05/2024	
Marilyn Carroll-Johnson	Corroboree Aboriginal Corporation	Joven Sanchez	Heritage Now	Email	7/05/2024	
Tracey Skene	Culturally Aware	Joven Sanchez	Heritage Now	Email	7/05/2024	
Derrick Vale Snr	D F T V Enterprises	Joven Sanchez	Heritage Now	Email	7/05/2024	
Deslee Matthews	Deslee Talbott Consultants	Joven Sanchez	Heritage Now	Email	7/05/2024	
Paul Boyd & Lilly Carroll	Didge Ngunawal Clan	Joven Sanchez	Heritage Now	Email	7/05/2024	

Aboriginal Consultation Log

Contact	Organisation	Contacted by	Organisation	Method	Date	Comment/response
Helen Slater	Gali Heritage Consultants	Joven Sanchez	Heritage Now	Email	7/05/2024	
Craig Horne & Debbie Dacey-Sullivan	Gidawaa Walang & Barkuma Neighbourhood Centre Inc.	Joven Sanchez	Heritage Now	Email	7/05/2024	
Diana Astin	Girragirra Murun Aboriginal Corporation	Joven Sanchez	Heritage Now	Email	7/05/2024	
David Horton	Gomery Cultural Consultants	Joven Sanchez	Heritage Now	Email	7/05/2024	
Trystan Treloar	Guthers Aboriginal Corporation	Joven Sanchez	Heritage Now	Email	7/05/2024	
Paulette Ryan	Hunter Traditional Owner	Joven Sanchez	Heritage Now	Email	7/05/2024	
Luke Hickey	Hunter Valley Cultural Surveying	Joven Sanchez	Heritage Now	Email	7/05/2024	
Tania Matthews	Hunters & Collectors	Joven Sanchez	Heritage Now	Email	7/05/2024	
Craig Archibald	Indigenous Learning	Joven Sanchez	Heritage Now	Email	7/05/2024	
Leslie Atkinson	Jarban + Mugrebea	Joven Sanchez	Heritage Now	Email	7/05/2024	
Norman Archibald	Jumbunna Traffic Management Group	Joven Sanchez	Heritage Now	Email	7/05/2024	
Jill Green	Kauma Pondee Inc.	Joven Sanchez	Heritage Now	Email	7/05/2024	
Arthur Fletcher	Kawul Pty Ltd Trading as Wonn1 Sites	Joven Sanchez	Heritage Now	Email	7/05/2024	
Ethan Trewlynn	Long Gully Cultural Services	Joven Sanchez	Heritage Now	Email	7/05/2024	
David Ahoy	Lower Hunter Aboriginal Incorporated	Joven Sanchez	Heritage Now	Email	7/05/2024	
Lea-Anne Ball	Lower Hunter Wonnarua Cultural Services	Joven Sanchez	Heritage Now	Email	7/05/2024	
Tracey White	Mayaroo	Joven Sanchez	Heritage Now	Email	7/05/2024	
Tara Dever	Mindaribba Local Aboriginal Land Council	Joven Sanchez	Heritage Now	Email	7/05/2024	

Aboriginal Consultation Log

Contact	Organisation	Contacted by	Organisation	Method	Date	Comment/response
Ryan Johnson & Darleen Johnson-Carroll	Murra Bidgee Mullangari Aboriginal Corporation	Joven Sanchez	Heritage Now	Email	7/05/2024	
Warren Schillings	Myland Cultural & Heritage Group	Joven Sanchez	Heritage Now	Email	7/05/2024	
Rod Hickey	The Men's Shack Indigenous Corporation	Joven Sanchez	Heritage Now	Email	7/05/2024	
Alan Paget	Ungooroo Aboriginal Corporation	Joven Sanchez	Heritage Now	Email	7/05/2024	
Maree Waugh	Wallangan Cultural Services	Joven Sanchez	Heritage Now	Email	7/05/2024	
Aaron Slater	Warragil Cultural Services	Joven Sanchez	Heritage Now	Email	7/05/2024	
Des Hickey	WATTAKA	Joven Sanchez	Heritage Now	Email	7/05/2024	
Donna & Steven Hickey	Widescope Indigenous Group	Joven Sanchez	Heritage Now	Email	7/05/2024	
Raymond Moon	Wingarra Wilay Aboriginal Corporation	Joven Sanchez	Heritage Now	Email	7/05/2024	
Richard & Dawn Edwards	Wonnarua Elders Council	Joven Sanchez	Heritage Now	Email	7/05/2024	
Laurie Perry	Wonnarua Nation Aboriginal Corporation	Joven Sanchez	Heritage Now	Email	7/05/2024	
Nadine Russell	Worimi Conservation Lands	Joven Sanchez	Heritage Now	Email	7/05/2024	
Andrew Smith	Worimi Local Aboriginal Land Council	Joven Sanchez	Heritage Now	Email	7/05/2024	
Vicky & Kerrie Slater	Wurrumay	Joven Sanchez	Heritage Now	Email	7/05/2024	
Scott Franks	Yarrawalk, on behalf of the Wonnarua PBC	Joven Sanchez	Heritage Now	Email	7/05/2024	
Kathleen Steward Kinchela	Yinarr Cultural Services	Joven Sanchez	Heritage Now	Email	7/05/2024	
Thomas Dahlstrom		Joven Sanchez	Heritage Now	Email	7/05/2024	

Aboriginal Consultation Log

Contact	Organisation	Contacted by	Organisation	Method	Date	Comment/response
Kevin Duncan		Joven Sanchez	Heritage Now	Email	7/05/2024	
Glen Morris		Joven Sanchez	Heritage Now	Email	7/05/2024	
Renee Sales		Joven Sanchez	Heritage Now	Email	7/05/2024	
Steve Talbott		Joven Sanchez	Heritage Now	Email	7/05/2024	
Jeffery Matthews	Crimson-Rosie	Kira Paznikov	Heritage Now	Mail	7/05/2024	
Barry Anderson	Lower Wonnaruah Tribal Consultancy	Kira Paznikov	Heritage Now	Mail	7/05/2024	
Gordon Griffiths	Wonnarua Culture Heritage	Kira Paznikov	Heritage Now	Mail	7/05/2024	
Expressions of Interest Responses						
Crystal Phillips	Heritage Now	Tara Dever	Mindaribba LALC	Phone	23/11/2023	Registered interest, provided representative for survey
Jenna Weston	Heritage Now	Ethan Trewlynn	Long Gully Cultural Services	Email	7/05/2024	Registered interest
	Heritage Now	Tracey Skene	Culturally Aware	Email	7/05/2024	Registered interest
	Heritage Now	Estelle Germishuizen	Ungooroo Aboriginal Corporation	Email	7/05/2024	Registered interest
	Heritage Now	Trystan Treloar	Guthers Aboriginal Corporation	Email	7/05/2024	Registered interest
	Heritage Now	Arthur Fletcher	Kawul Pty Ltd Trading as Wonn1 Sites	Email	7/05/2024	Registered interest
	Heritage Now	David Horton	Gomery Cultural Consultants	Email	7/05/2024	Registered interest
	Heritage Now	Paul Boyd	Didge Ngunawal Clan	Email	8/05/2024	Registered interest
	Heritage Now	Scott Franks	Yarrawalk, on behalf of the Wonnarua PBC	Email	8/05/2024	Registered interest
	Heritage Now	Paul Boyd	Didge Ngunawal Clan	Email	9/05/2024	"Just also adding we have worked out here along the Anambah Road and found a lot of pads"
	Heritage Now	Maree Waugh	Wallangan Cultural Services	Email	9/05/2024	Registered interest
	Heritage Now	Derrick Vale Snr	D F T V Enterprises	Email	10/05/2024	Registered interest
	Heritage Now	Clarissa Swan		Email	14/05/2024	Registered interest

Aboriginal Consultation Log

Contact	Organisation	Contacted by	Organisation	Method	Date	Comment/response
	Heritage Now	Carolyn Hickey	A1 Indigenous Services	Email	22/05/2024	Registered interest
	Heritage Now	Aliera French	Aliera French Trading	Email	22/05/2024	Registered interest
	Heritage Now	Darleen Johnson-Carroll	Murra Bidgee Mullangari Aboriginal Corporation	Email	30/05/2024	Late registration
	Heritage Now	Paulette Ryan	Hunter Traditional Owner	Email	9/06/2024	Late registration
Notification Letter						
Sir or Madam	Heritage NSW	Jacqueline Chua	Heritage Now	Email	31/05/2024	
CEO	Mindaribba Local Aboriginal Land Council	Jacqueline Chua	Heritage Now	Email	31/05/2024	
Methodology Letter sent						
Ethan Trewlynn	Long Gully Cultural Services	Jacqueline Chua	Heritage Now	Email	24/05/2024	
Tracey Skene	Culturally Aware	Jacqueline Chua	Heritage Now	Email	24/05/2024	
Estelle Germishuizen	Ungooroo Aboriginal Corporation	Jacqueline Chua	Heritage Now	Email	24/05/2024	
Trystan Treloar	Guthers Aboriginal Corporation	Jacqueline Chua	Heritage Now	Email	24/05/2024	
Arthur Fletcher	Kawul Pty Ltd Trading as Wonn1 Sites	Jacqueline Chua	Heritage Now	Email	24/05/2024	
David Horton	Gomery Cultural Consultants	Jacqueline Chua	Heritage Now	Email	24/05/2024	
Paul Boyd	Didge Ngunawal Clan	Jacqueline Chua	Heritage Now	Email	24/05/2024	
Scott Franks	Yarrawalk, on behalf of the Wonnarua PBC	Jacqueline Chua	Heritage Now	Email	24/05/2024	
Paul Boyd	Didge Ngunawal Clan	Jacqueline Chua	Heritage Now	Email	24/05/2024	
Maree Waugh	Wallangan Cultural Services	Jacqueline Chua	Heritage Now	Email	24/05/2024	
Derrick Vale Snr	D F T V Enterprises	Jacqueline Chua	Heritage Now	Email	24/05/2024	
Clarissa Swan		Jacqueline Chua	Heritage Now	Email	24/05/2024	
Carolyn Hickey	A1 Indigenous Services	Joven Sanchez	Heritage Now	Email	24/05/2024	
Aliera French	Aliera French Trading	Joven Sanchez	Heritage Now	Email	24/05/2024	

Aboriginal Consultation Log

Contact	Organisation	Contacted by	Organisation	Method	Date	Comment/response
Ryan Johnson & Darleen Johnson-Carroll	Murra Bidgee Mullangari Aboriginal Corporation	Joven Sanchez	Heritage Now	Email	30/05/2024	
Methodology Responses						
	Heritage Now	Ethan Trewlynn	Long Gully Cultural Services	Email	24/05/2024	Agreed with the methodology
	Heritage Now	Paul Boyd	Didge Ngunawal Clan	Email	24/05/2024	Agreed with the methodology
	Heritage Now	Tracey Skene	Culturally Aware	Email	27/05/2024	Agreed with the methodology
	Heritage Now	Darleen Johnson-Carroll	Murra Bidgee Mullangari Aboriginal Corporation	Email	3/06/2024	Agreed with the methodology
	Heritage Now	Carolyn Hickey	A1 Indigenous Services	Email	10/06/2024	Agreed with the methodology
Draft Report Sent for Review						
Carolyn Hickey	A1 Indigenous Services	Joven Sanchez	Heritage Now	Email	24/07/2024	
Alera French	Alera French Trading	Joven Sanchez	Heritage Now	Email	24/07/2024	
Tracey Skene	Culturally Aware	Joven Sanchez	Heritage Now	Email	24/07/2024	
Derrick Vale Snr	D F T V Enterprises	Joven Sanchez	Heritage Now	Email	24/07/2024	
Paul Boyd & Lilly Carroll	Didge Ngunawal Clan	Joven Sanchez	Heritage Now	Email	24/07/2024	
David Horton	Gomery Cultural Consultants	Joven Sanchez	Heritage Now	Email	24/07/2024	
Trystan Treloar	Guthers Aboriginal Corporation	Joven Sanchez	Heritage Now	Email	24/07/2024	
Paulette Ryan	Hunter Traditional Owner	Joven Sanchez	Heritage Now	Email	24/07/2024	
Arthur Fletcher	Kawul Pty Ltd Trading as Wonn1 Sites	Joven Sanchez	Heritage Now	Email	24/07/2024	
Ethan Trewlynn	Long Gully Cultural Services	Joven Sanchez	Heritage Now	Email	24/07/2024	
Tara Dever	Mindaribba Local Aboriginal Land Council	Joven Sanchez	Heritage Now	Email	24/07/2024	
Ryan Johnson & Darleen Johnson-Carroll	Murra Bidgee Mullangari Aboriginal Corporation	Joven Sanchez	Heritage Now	Email	24/07/2024	

Aboriginal Consultation Log

Contact	Organisation	Contacted by	Organisation	Method	Date	Comment/response
Estelle Germishuizen	Ungooroo Aboriginal Corporation	Joven Sanchez	Heritage Now	Email	24/07/2024	
Maree Waugh	Wallangan Cultural Services	Joven Sanchez	Heritage Now	Email	24/07/2024	
Scott Franks	Yarrawalk, on behalf of the Wonnarua PBC	Joven Sanchez	Heritage Now	Email	24/07/2024	
Clarissa Swan		Joven Sanchez	Heritage Now	Email	24/07/2024	
Reminder to respond						
Carolyn Hickey	A1 Indigenous Services	Joven Sanchez	Heritage Now	Email	14/08/2024	
Aliera French	Aliera French Trading	Joven Sanchez	Heritage Now	Email	14/08/2024	
Tracey Skene	Culturally Aware	Joven Sanchez	Heritage Now	Email	14/08/2024	
Derrick Vale Snr	D F T V Enterprises	Joven Sanchez	Heritage Now	Email	14/08/2024	
Paul Boyd & Lilly Carroll	Didge Ngunawal Clan	Joven Sanchez	Heritage Now	Email	14/08/2024	
David Horton	Gomery Cultural Consultants	Joven Sanchez	Heritage Now	Email	14/08/2024	
Trystan Treloar	Guthers Aboriginal Corporation	Joven Sanchez	Heritage Now	Email	14/08/2024	
Paulette Ryan	Hunter Traditional Owner	Joven Sanchez	Heritage Now	Email	14/08/2024	
Arthur Fletcher	Kawul Pty Ltd Trading as Wonn1 Sites	Joven Sanchez	Heritage Now	Email	14/08/2024	
Ethan Trewlynn	Long Gully Cultural Services	Joven Sanchez	Heritage Now	Email	14/08/2024	
Tara Dever	Mindaribba Local Aboriginal Land Council	Joven Sanchez	Heritage Now	Email	14/08/2024	
Ryan Johnson & Darleen Johnson-Carroll	Murra Bidgee Mullangari Aboriginal Corporation	Joven Sanchez	Heritage Now	Email	14/08/2024	
Estelle Germishuizen	Ungooroo Aboriginal Corporation	Joven Sanchez	Heritage Now	Email	14/08/2024	
Maree Waugh	Wallangan Cultural Services	Joven Sanchez	Heritage Now	Email	14/08/2024	

Aboriginal Consultation Log

Contact	Organisation	Contacted by	Organisation	Method	Date	Comment/response
Scott Franks	Yarrawalk, on behalf of the Wonnarua PBC	Joven Sanchez	Heritage Now	Email	14/08/2024	
Clarissa Swan		Joven Sanchez	Heritage Now	Email	14/08/2024	
Responses to Draft Report						
Paul Boyd & Lilly Carroll	Didge Ngunawal Clan	Crystal Phillips	Heritage Now	Phone	27/08/2024	Agrees with the report recommendations
Arthur Fletcher	Kawul Pty Ltd Trading as Wonn1 Sites	Crystal Phillips	Heritage Now	Phone	27/08/2024	Agrees with the report recommendations
Ryan Johnson & Darleen Johnson-Carroll	Murra Bidgee Mullangari Aboriginal Corporation	Crystal Phillips	Heritage Now	Phone	27/08/2024	Agrees with the report recommendations
Scott Franks	Yarrawalk, on behalf of the Wonnarua PBC	Crystal Phillips	Heritage Now	Phone	27/08/2024	Agrees with the report recommendations
	Heritage Now	Ethan Trewlynn	Long Gully Cultural Services	Email	28/08/2024	Recommends doing some field work to investigate the area due to its location
Test-Ex Methodology						
Carolyn Hickey	A1 Indigenous Services	Jacqueline Chua	Heritage Now	Email	17/01/2025	
Aliera French	Aliera French Trading	Jacqueline Chua	Heritage Now	Email	17/01/2025	
Tracey Skene	Culturally Aware	Jacqueline Chua	Heritage Now	Email	17/01/2025	
Derrick Vale Snr	D F T V Enterprises	Jacqueline Chua	Heritage Now	Email	17/01/2025	
Paul Boyd & Lilly Carroll	Didge Ngunawal Clan	Jacqueline Chua	Heritage Now	Email	17/01/2025	
David Horton	Gomery Cultural Consultants	Jacqueline Chua	Heritage Now	Email	17/01/2025	
Trystan Treloar	Guthers Aboriginal Corporation	Jacqueline Chua	Heritage Now	Email	17/01/2025	
Paulette Ryan	Hunter Traditional Owner	Jacqueline Chua	Heritage Now	Email	17/01/2025	
Arthur Fletcher	Kawul Pty Ltd Trading as Wonn1 Sites	Jacqueline Chua	Heritage Now	Email	17/01/2025	
Ethan Trewlynn	Long Gully Cultural Services	Jacqueline Chua	Heritage Now	Email	17/01/2025	

Aboriginal Consultation Log

Contact	Organisation	Contacted by	Organisation	Method	Date	Comment/response
Tara Dever	Mindaribba Local Aboriginal Land Council	Jacqueline Chua	Heritage Now	Email	17/01/2025	
Ryan Johnson & Darleen Johnson-Carroll	Murra Bidgee Mullangari Aboriginal Corporation	Jacqueline Chua	Heritage Now	Email	17/01/2025	
Estelle Germishuizen	Ungooroo Aboriginal Corporation	Jacqueline Chua	Heritage Now	Email	17/01/2025	
Maree Waugh	Wallangan Cultural Services	Jacqueline Chua	Heritage Now	Email	17/01/2025	
Scott Franks	Yarrawalk, on behalf of the Wonnarua PBC	Jacqueline Chua	Heritage Now	Email	17/01/2025	
Clarissa Swan		Jacqueline Chua	Heritage Now	Email	17/01/2025	
Steve Talbott		Jacqueline Chua	Heritage Now	Email	17/01/2025	
Test-Ex Methodology Responses						
	Heritage Now	David Horton	Gomery Cultural Consultants	Email	17/01/2025	Agrees with the methodology. Asked if there would be expansion to 1m by 1m pits if high numbers of artefacts are found.
	Heritage Now	Paul Boyd & Lilly Carroll	Didge Ngunawal Clan	Email	17/01/2025	Agrees with the methodology
	Heritage Now	Ethan Trewlynn	Long Gully Cultural Services	Email	17/01/2025	Agrees with the methodology
	Heritage Now	Arthur Fletcher	Kawul Pty Ltd Trading as Wonn1 Sites	Email	17/01/2025	Received
	Heritage Now	Carolyn Hickey	A1 Indigenous Services	Email	19/01/2025	Agrees with the methodology
	Heritage Now	Tracey Skene	Culturally Aware	Email	28/01/2025	Agrees with the methodology

Aboriginal Consultation Log

Contact	Organisation	Contacted by	Organisation	Method	Date	Comment/response
David Horton	Gomery Cultural Consultants	Crystal Phillips	Heritage Now	Email	4/02/2025	Identified that the methodology allows for some additional in-fill pits or expansions during test excavation. If a high density of artefacts is found then the site may be subject to further investigation through a salvage excavation.
	Heritage Now	Darleen Johnson-Carroll	Murra Bidgee Mullangari Aboriginal Corporation	Email	18/02/2025	Agrees with the methodology
	Heritage Now	Paulette Ryan	Hunter Traditional Owner	Email	26/02/2025	Received
Draft Test Ex Report Sent for Review						
Carolyn Hickey	A1 Indigenous Services	Joven Sanchez	Heritage Now	Email	15/08/2025	
Aliera French	Aliera French Trading	Joven Sanchez	Heritage Now	Email	15/08/2025	
Tracey Skene	Culturally Aware	Joven Sanchez	Heritage Now	Email	15/08/2025	
Derrick Vale Snr	D F T V Enterprises	Joven Sanchez	Heritage Now	Email	15/08/2025	
Paul Boyd & Lilly Carroll	Didge Ngunawal Clan	Joven Sanchez	Heritage Now	Email	15/08/2025	
David Horton	Gomery Cultural Consultants	Joven Sanchez	Heritage Now	Email	15/08/2025	
Trystan Treloar	Guthers Aboriginal Corporation	Joven Sanchez	Heritage Now	Email	15/08/2025	
Paulette Ryan	Hunter Traditional Owner	Joven Sanchez	Heritage Now	Email	15/08/2025	
Arthur Fletcher	Kawul Pty Ltd Trading as Wonn1 Sites	Joven Sanchez	Heritage Now	Email	15/08/2025	
Ethan Trewlynn	Long Gully Cultural Services	Joven Sanchez	Heritage Now	Email	15/08/2025	
Tara Dever	Mindaribba Local Aboriginal Land Council	Joven Sanchez	Heritage Now	Email	15/08/2025	

Aboriginal Consultation Log

Contact	Organisation	Contacted by	Organisation	Method	Date	Comment/response
Ryan Johnson & Darleen Johnson-Carroll	Murra Bidgee Mullangari Aboriginal Corporation	Joven Sanchez	Heritage Now	Email	15/08/2025	
Estelle Germishuizen	Ungooroo Aboriginal Corporation	Joven Sanchez	Heritage Now	Email	15/08/2025	
Maree Waugh	Wallangan Cultural Services	Joven Sanchez	Heritage Now	Email	15/08/2025	
Scott Franks	Yarrawalk, on behalf of the Wonnarua PBC	Joven Sanchez	Heritage Now	Email	15/08/2025	
Clarissa Swan		Joven Sanchez	Heritage Now	Email	15/08/2025	
Steve Talbott		Joven Sanchez	Heritage Now	Email	15/08/2025	
Reminder to respond						
Carolyn Hickey	A1 Indigenous Services	Joven Sanchez	Heritage Now	Email	29/08/2025	
Alera French	Alera French Trading	Joven Sanchez	Heritage Now	Email	29/08/2025	
Tracey Skene	Culturally Aware	Joven Sanchez	Heritage Now	Email	29/08/2025	
Derrick Vale Snr	D F T V Enterprises	Joven Sanchez	Heritage Now	Email	29/08/2025	
Trystan Treloar	Guthers Aboriginal Corporation	Joven Sanchez	Heritage Now	Email	29/08/2025	
Paulette Ryan	Hunter Traditional Owner	Joven Sanchez	Heritage Now	Email	29/08/2025	
Arthur Fletcher	Kawul Pty Ltd Trading as Wonn1 Sites	Joven Sanchez	Heritage Now	Email	29/08/2025	
Ethan Trewlynn	Long Gully Cultural Services	Joven Sanchez	Heritage Now	Email	29/08/2025	
Tara Dever	Mindaribba Local Aboriginal Land Council	Joven Sanchez	Heritage Now	Email	29/08/2025	
Estelle Germishuizen	Ungooroo Aboriginal Corporation	Joven Sanchez	Heritage Now	Email	29/08/2025	
Maree Waugh	Wallangan Cultural Services	Joven Sanchez	Heritage Now	Email	29/08/2025	
Scott Franks	Yarrawalk, on behalf of the Wonnarua PBC	Joven Sanchez	Heritage Now	Email	29/08/2025	
Clarissa Swan		Joven Sanchez	Heritage Now	Email	29/08/2025	
Steve Talbott		Joven Sanchez	Heritage Now	Email	29/08/2025	

Aboriginal Consultation Log

Contact	Organisation	Contacted by	Organisation	Method	Date	Comment/response
Responses to Draft Test Ex Report						
	Heritage Now	David Horton	Gomery Cultural Consultants	Email	15/08/2025	"if artefacts can't be avoided there should be community collection, and next stage is there going to be more test excavation carried out, on impacted areas."
	Heritage Now	Paul Boyd & Lilly Carroll	Didge Ngunawal Clan	Email	15/08/2025	"Wasn't part of the test exc, can't comment"
Crystal Phillips	Heritage Now	Darleen Johnson-Carroll	Murra Bidgee Mullangari Aboriginal Corporation	Email	28/08/2025	Endorses the recommendations
David Horton	Gomery Cultural Consultants	Crystal Phillips	Heritage Now	Email	12/09/2025	"Just wanted to clarify that yes, we have recommended additional testing for subsequent stages and community collection for surface artefacts that cannot be avoided."

Appendix 2 AHIMS Search Results

AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : HN1046-C

Client Service ID : 1006779

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
38-4-1162	Anambah-AS2	GDA	56	360643	6381665	Open site	Destroyed	Artefact : 1		101566,10215 8,102229
	Contact	Recorders	Mr.Geordie Oakes,Mr.Giles (dup ID#12832) Hamm,AECOM Australia Pty Ltd - Sydn							
37-6-2861	Christopher Road Site 1	GDA	56	355504	6380299	Open site	Destroyed	Artefact : 1		4829
	Contact	Recorders	Umwelt (Australia) Pty Limited - Individual users,Mr.Kirwan Williams,Mr.Giles Har							
37-6-1123	ISF 2 Rutherford	AGD	56	357200	6381200	Open site	Valid	Artefact : 1		3963,4080
	Contact	Recorders	Mary Dallas Consulting Archaeologists (MDCA)							
37-6-1827	East Lochinvar Site 9	GDA	56	356502	6380405	Open site	Destroyed	Artefact : -		
	Contact	Recorders	Mr.Giles (dup ID#12832) Hamm,RPS AAP Consulting Pty Ltd - York Street Sydney ,							
37-6-3562	Anambah SAC 4 and PAD 22	GDA	56	357770	6383996	Open site	Valid	Potential Archaeological Deposit (PAD) : -, Artefact : -		
	Contact	Recorders	Miss.Diana Cowie							
37-6-3575	Anambah SAC 18	GDA	56	358837	6382360	Open site	Valid	Artefact : -		
	Contact	Recorders	Miss.Diana Cowie							
38-4-2044	Lot 1 AS 3	GDA	56	360602	6381498	Open site	Destroyed	Artefact : -		
	Contact	Recorders	Mr.Geordie Oakes,Archaeological Risk Assessment Services (ARAS),Mr.Giles (dup I							
38-4-0428	KS 10;	AGD	56	360100	6378970	Open site	Valid	Artefact : -	Open Camp Site	100898,10215 8,102229
	Contact	Recorders	Liam Dagg							
37-6-4425	Anambah AFT-01	GDA	56	358241	6384226	Open site	Valid	Artefact : -		880
	Contact	Recorders	Heritage Now - Belmont,Ms.Crystal Phillips							
37-6-4477	Lochinvar Sporting, Robert Road AS4	GDA	56	355463	6380495	Open site	Valid	Artefact : -		
	Contact	Recorders	Biosis Pty Ltd - Wollongong,Mrs.Samantha Keats							
37-6-4369	Anambah Road IF1	GDA	56	359141	6383005	Open site	Valid	Artefact : -		
	Contact	Recorders	GML Heritage Pty Ltd - Surry Hills,Mr.Jacob (GML) Kiefel							
37-6-2862	Christopher Road Site 2	GDA	56	355456	6380305	Open site	Partially Destroyed	Artefact : 1		
	Contact	Recorders	Umwelt (Australia) Pty Limited - Individual users,Mr.Kirwan Williams,Mr.Giles Har							
37-6-3582	Anambah SAC 23 and PAD 13	GDA	56	358834	6383251	Open site	Valid	Art (Pigment or Engraved) : -, Artefact : -, Potential Archaeological Deposit (PAD) : -		
	Contact	Recorders	GML Heritage Pty Ltd - Surry Hills,Doctor.Tim Owen,Miss.Diana Cowie							
37-6-0122	Lochinvar;Farley;H;	AGD	56	357526	6379503	Open site	Valid	Artefact : -	Open Camp Site	102646
	Contact	Recorders	Len Dyll							

Report generated by AHIMS Web Service on 22/05/2025 for Jacqueline Chua for the following area at Datum :GDA, Zone : 56, Eastings : 355413.0 - 362413.0, Northings : 6378958.0 - 6385958.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 118

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SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
37-6-1124	PAD 1 Rutherford	AGD	56	358280	6384800	Open site	Valid	Potential Archaeological Deposit (PAD) : 1		102158,102229
	<u>Contact</u>	<u>Recorders</u>	Mary Dallas Consulting Archaeologists (MDCA)							
37-6-1939	Rutherford Employment Area Pad 3	GDA	56	359000	6379150	Open site	Valid	Potential Archaeological Deposit (PAD) : -		101300,102158,102229
	<u>Contact</u>	<u>Recorders</u>	Doctor.Penny Mccardle							
37-6-1940	Rutherford Employment Area 1 (REA1)	GDA	56	358611	6379807	Open site	Valid	Artefact : 20		101300,102158,102229
	<u>Contact</u>	<u>Recorders</u>	Doctor.Penny Mccardle							
37-6-1941	Rutherford Employment Area 2 (REA2)	GDA	56	358371	6379120	Open site	Valid	Artefact : 2		101300,102158,102229
	<u>Contact</u>	<u>Recorders</u>	Doctor.Penny Mccardle							
37-6-2777	Anambah SAC 3	GDA	56	357212	6383869	Open site	Valid	Aboriginal Ceremony and Dreaming : 1, Artefact : 1		
	<u>Contact</u>	<u>Recorders</u>	Doctor.Tim Owen							
37-6-3561	Anambah SAC 2	GDA	56	357612	6383746	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Miss.Diana Cowie							
37-6-3564	Anambah SAC 6&7 + PAD 24&19	GDA	56	358536	6383837	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -, Stone Quarry : -		
	<u>Contact</u>	<u>Recorders</u>	Miss.Diana Cowie							
37-6-3568	Anambah SAC 11 and PAD 27	GDA	56	358102	6383978	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
	<u>Contact</u>	<u>Recorders</u>	Miss.Diana Cowie							
37-6-3570	Anambah SAC 13 and PAD 12	GDA	56	358404	6383034	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
	<u>Contact</u>	<u>Recorders</u>	Miss.Diana Cowie							
38-4-0424	Kyle Street 8;KS8;	AGD	56	360510	6379220	Open site	Valid	Artefact : -	Open Camp Site	100898,102158,102229
	<u>Contact</u>	<u>Recorders</u>	Liam Dagg							
37-6-2214	Christopher Road 2	GDA	56	355457	6380305	Open site	Partially Destroyed	Artefact : 6		
	<u>Contact</u>	<u>Recorders</u>	Umwelt (Australia) Pty Limited - Individual users,Mr.Paul Irish,Ms.Mary Dallas,Mr.							
37-6-4478	Lochinvar Sporting, Robert Road IF2	GDA	56	355416	6380323	Open site	Valid	Artefact : -	3963	
	<u>Contact</u>	<u>Recorders</u>	Biosis Pty Ltd - Wollongong,Mrs.Samantha Keats							

AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : HN1046-C

Client Service ID : 1006779

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
37-6-0989	Penn Park 1	AGD	56	357220	6380370	Open site	Valid	Artefact : -		4102
	<u>Contact</u>	<u>Recorders</u>	Jim Ring					<u>Permits</u>	2279	
37-6-1938	Rutherford Employment Area PAD 2	GDA	56	358181	6378992	Open site	Valid	Potential Archaeological Deposit (PAD) : -		101300,10215 8,102229,1022 31
	<u>Contact</u>	<u>Recorders</u>	Doctor.Penny Mccardle					<u>Permits</u>		
37-6-1054	R-1	AGD	56	357900	6381200	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Mary Dallas Consulting Archaeologists (MDCA)					<u>Permits</u>		
37-6-1835	East Lochinvar Site 1	GDA	56	355811	6380701	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Mr.Giles (dup ID#12832) Hamm					<u>Permits</u>	4704	
38-4-1164	Anambah PAD 1	GDA	56	359900	6381300	Open site	Valid	Potential Archaeological Deposit (PAD) : 1		101566,10215 8,102229
	<u>Contact</u>	<u>Recorders</u>	Mr.Giles (dup ID#12832) Hamm					<u>Permits</u>		
38-4-1167	Anambah PAD 4	GDA	56	360330	6381350	Open site	Valid	Potential Archaeological Deposit (PAD) : 1		101566,10215 8,102229
	<u>Contact</u>	<u>Recorders</u>	Mr.Giles (dup ID#12832) Hamm					<u>Permits</u>		
37-6-1946	Rutherford Employment Area 7 (REA7)	GDA	56	357951	6379762	Open site	Valid	Artefact : 2		101300
	<u>Contact</u>	<u>Recorders</u>	Doctor.Penny Mccardle					<u>Permits</u>		
38-4-2045	Lot 1 AS 4	GDA	56	360646	6381665	Open site	Destroyed	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Mr.Geordie Oakes,Archaeological Risk Assessment Services (ARAS),Mr.Giles (dup ID#12832) Hamm					<u>Permits</u>	4829	
38-4-2046	Lot 1 AS 5	GDA	56	360458	6381733	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Archaeological Risk Assessment Services (ARAS),Mr.Giles (dup ID#12832) Hamm					<u>Permits</u>		
37-6-4191	Airds of Lochinvar PAD 3	GDA	56	355909	6379924	Open site	Not a Site	Potential Archaeological Deposit (PAD) : -		
	<u>Contact</u>	<u>Recorders</u>	Archaeological Risk Assessment Services (ARAS),Eco Logical Australia Pty Ltd - Syc					<u>Permits</u>		
38-4-0421	Kyle Street 5 (KS5)	AGD	56	360410	6379400	Open site	Valid	Artefact : -	Open Camp Site	100766,10089 8,101122,1021 58,102229
	<u>Contact</u>	<u>Recorders</u>	Mr.Peter Kuskie,Liam Dagg					<u>Permits</u>	2807,2813	
38-4-0002	Rosebrook;	AGD	56	361810	6385071	Open site	Valid	Artefact : -	Open Camp Site	102158,10222 9
	<u>Contact</u>	<u>Recorders</u>	ASRSYS					<u>Permits</u>		
38-4-0611	ABER 2	AGD	56	361210	6381350	Open site	Valid	Artefact : -		98364,102158, 102229
	<u>Contact</u>	<u>Recorders</u>	Mrs.Angela Besant					<u>Permits</u>	1595	
37-6-4439	Robert Road IF1	GDA	56	355473	6380479	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Biosis Pty Ltd - Wollongong,Mrs.Samantha Keats					<u>Permits</u>		

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SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
37-6-4438	Lochinvar Sporting, Robert Road AS1	GDA	56	355473	6380389	Open site	Valid	Artefact : -		
	Contact	Recorders				Biosis Pty Ltd - Wollongong,Biosis Pty Ltd - Wollongong,Mrs.Samantha Keats,Mrs.S		Permits		
37-6-4370	Lochinvar ISF2	GDA	56	356872	6382111	Open site	Valid	Artefact : -		
	Contact	Recorders				GML Heritage Pty Ltd - Surry Hills,Mr.Jacob (GML) Kiefel		Permits		
37-6-1824	East Lochinvar Site 6	GDA	56	356724	6380310	Open site	Destroyed	Artefact : -		
	Contact	Recorders				Umwelt (Australia) Pty Limited - Individual users,Mr.Giles (dup ID#12832) Hamm,		Permits	3963	
37-6-1832	East Lochinvar Site 4	GDA	56	355955	6379972	Open site	Destroyed	Artefact : -		
	Contact	Recorders				Mr.Giles (dup ID#12832) Hamm,RPS AAP Consulting Pty Ltd - York Street Sydney ,		Permits	4482	
37-6-3555	Anambah IF 8 & PAD 23	GDA	56	358025	6383995	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
	Contact	Recorders				Miss.Diana Cowie		Permits		
37-6-3556	Anambah IF 9	GDA	56	357717	6384140	Open site	Valid	Artefact : -		
	Contact	Recorders				Miss.Diana Cowie		Permits		
37-6-3567	Anambah SAC 10 and PAD 26	GDA	56	358188	6383868	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
	Contact	Recorders				Miss.Diana Cowie		Permits		
37-6-3574	Anambah SAC 17 and PAD 1	GDA	56	359151	6382591	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
	Contact	Recorders				Miss.Diana Cowie		Permits		
38-4-2043	Lot 1 AS 2	GDA	56	360716	6381487	Open site	Destroyed	Artefact : -		
	Contact	Recorders				Mr.Geordie Oakes,Archaeological Risk Assessment Services (ARAS),Mr.Giles (dup ID#12832) Hamm,		Permits	4829	
37-6-4428	Anambah AFT-02	GDA	56	357918	6384377	Open site	Valid	Artefact : -		
	Contact	Recorders				Heritage Now - Belmont,Ms.Crystal Phillips		Permits		
37-6-4476	Lochinvar Sporting, Robert Road AS3	GDA	56	355442	6380464	Open site	Valid	Artefact : -		
	Contact	Recorders				Biosis Pty Ltd - Wollongong,Mrs.Samantha Keats		Permits		
37-6-4447	Anambah PAD 02	GDA	56	356906	6384444	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	Contact	Recorders				Heritage Now - Belmont,Ms.Crystal Phillips		Permits		
37-6-1831	East Lochinvar Site 3	GDA	56	355955	6379972	Open site	Destroyed	Artefact : -		
	Contact	Recorders				Mr.Giles (dup ID#12832) Hamm,RPS AAP Consulting Pty Ltd - York Street Sydney ,		Permits	4482	
38-4-1163	Anambah-ISF2	GDA	56	359783	6381328	Open site	Valid	Artefact : 1		101566,102158,102229
	Contact	Recorders				Mr.Giles (dup ID#12832) Hamm		Permits		

AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : HN1046-C

Client Service ID : 1006779

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
37-6-1943	Rutherford Employment Area 4 (REA4)	GDA	56	358181	6378992	Open site	Valid	Artefact : 1		101300,10215 8,102229,1022 31
	<u>Contact</u>	<u>Recorders</u>	Doctor.Penny Mccardle					<u>Permits</u>		
37-6-1948	Rutherford Employment Area 9 (REA9)	GDA	56	358005	6379815	Open site	Valid	Artefact : 1		101300
	<u>Contact</u>	<u>Recorders</u>	Doctor.Penny Mccardle					<u>Permits</u>		
37-6-3557	Anambah IF 10	AGD	56	358397	6381819	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Miss.Diana Cowie					<u>Permits</u>		
37-6-3563	Anambah SAC 5 and PAD 20	GDA	56	358246	6383842	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
	<u>Contact</u>	<u>Recorders</u>	Miss.Diana Cowie					<u>Permits</u>		
37-6-3571	Anambah SAC 14 and PAD 15	GDA	56	358068	6383015	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
	<u>Contact</u>	<u>Recorders</u>	Miss.Diana Cowie					<u>Permits</u>		
37-6-3573	Anambah SAC 16	GDA	56	358025	6383995	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
	<u>Contact</u>	<u>Recorders</u>	Miss.Diana Cowie					<u>Permits</u>		
37-6-4189	Airds of lochinvar PAD1	GDA	56	356670	6380319	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	<u>Contact</u>	<u>Recorders</u>	Archaeological Risk Assessment Services (ARAS),Mr.Giles Hamm					<u>Permits</u>		
38-4-0418	Kyle Street 2 (KS2)	GDA	56	360350	6379750	Open site	Destroyed	Artefact : -	Open Camp Site	100766,10089 8,101122,1021 58,102229
	<u>Contact</u>	<u>Recorders</u>	Mr.Peter Kuskie,Liam Dagg,GML Heritage Pty Ltd - Surry Hills,Mr.Jacob (GML) Kieff					<u>Permits</u>	2807,2813	
38-4-0423	Kyle Street 7;KS7;	AGD	56	360420	6379100	Open site	Valid	Artefact : -	Open Camp Site	100898,10215 8,102229
	<u>Contact</u>	<u>Recorders</u>	Liam Dagg					<u>Permits</u>		
38-4-2098	Anambah Rd 1	GDA	56	360242	6381142	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Eco Logical Australia Pty Ltd - Sydney - Individual users,Mr.Tyler (Virtus) Beebe					<u>Permits</u>	4853	
37-6-4446	Anambah PAD	GDA	56	357797	6384429	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	<u>Contact</u>	<u>Recorders</u>	Heritage Now - Belmont,Ms.Crystal Phillips					<u>Permits</u>		
37-6-4437	Lochinvar Sporting, Robert Road AS2	GDA	56	355443	6380319	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Biosis Pty Ltd - Wollongong,Biosis Pty Ltd - Wollongong,Mrs.Samantha Keats,Mrs.S					<u>Permits</u>		
37-6-1607	Lochinvar 1	AGD	56	355515	6380960	Open site	Valid	Artefact : 2		99841
	<u>Contact</u> Searle	<u>Recorders</u>	Doctor.Penny Mccardle					<u>Permits</u>	2456,3963	

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SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
37-6-3578	Anambah SAC 19	GDA	56	358764	6382070	Open site	Valid	Artefact : -		
	Contact	Recorders		Miss.Diana Cowie				Permits		
37-6-1125	ISF 3 Rutherford	AGD	56	357750	6381240	Open site	Valid	Artefact : 1		
	Contact	Recorders		Mary Dallas Consulting Archaeologists (MDCA)				Permits		
38-4-1165	Anambah PAD 2	GDA	56	360600	6381550	Open site	Partially Destroyed	Potential Archaeological Deposit (PAD) : 1		101566,102158,102229
	Contact	Recorders		Mr.Geordie Oakes,Mr.Giles (dup ID#12832) Hamm,AECOM Australia Pty Ltd - Sydn				Permits	4829	
38-4-1168	Anambah PAD 5	GDA	56	360530	6381420	Closed site	Partially Destroyed	Potential Archaeological Deposit (PAD) : 1		101566,102158,102229
	Contact	Recorders		Mr.Geordie Oakes,Mr.Giles (dup ID#12832) Hamm,AECOM Australia Pty Ltd - Sydn				Permits	4829	
38-4-1171	Anambah PAD 8	GDA	56	359850	6381370	Open site	Valid	Potential Archaeological Deposit (PAD) : 1		102158,102229
	Contact	Recorders		Mr.Giles (dup ID#12832) Hamm				Permits		
37-6-1944	Rutherford Employment Area 5 (REA5)	GDA	56	357726	6379611	Open site	Valid	Artefact : 16		101300
	Contact	Recorders		Doctor.Penny Mccardle				Permits		
37-6-1945	Rutherford Employment Area 6 (REA6)	GDA	56	357878	6379673	Open site	Valid	Artefact : 4		101300
	Contact	Recorders		Doctor.Penny Mccardle				Permits		
37-6-1949	Rutherford Employment Area 10 (REA10)	GDA	56	358054	6379831	Open site	Valid	Artefact : 3		101300
	Contact	Recorders		Doctor.Penny Mccardle				Permits		
37-6-2228	LCC1 & PAD	GDA	56	355673	6381234	Open site	Valid	Artefact : 15, Potential Archaeological Deposit (PAD) : -		
	Contact	Recorders		Mrs.Angela Besant,Umwelt (Australia) Pty Limited - Individual users,MCH - McCarc				Permits	3936,3963,4694,4697	
37-6-3553	Anambah IF 1	GDA	56	359024	6382274	Open site	Valid	Artefact : -		
	Contact	Recorders		Miss.Diana Cowie				Permits		
37-6-3554	Anambah IF 2	GDA	56	358313	6382885	Open site	Valid	Artefact : -		
	Contact	Recorders		Miss.Diana Cowie				Permits		
37-6-3558	Anambah IF 11	GDA	56	358558	6383163	Open site	Valid	Artefact : -		
	Contact	Recorders		Miss.Diana Cowie				Permits		
37-6-3560	Anambah SAC 1 and PAD 21	GDA	56	358183	6383600	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
	Contact	Recorders		Miss.Diana Cowie				Permits		
37-6-3565	Anambah SAC 8 and PAD 28	GDA	56	358491	6383928	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		

AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : HN1046-C

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SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>		
37-6-2218	PAD 1 Lochinvar URA	AGD	56	355800	6379200	Open site	Not a Site	Potential Archaeological Deposit (PAD) : 1		
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>		
38-4-2102	Anambah Terrace	GDA	56	360623	6381582	Closed site	Partially Destroyed	Potential Archaeological Deposit (PAD) : -, Artefact : -		
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>	4829	
37-6-4248	Windermere ST	GDA	56	355850	6384933	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>		
37-6-4445	Anambah AFT-04	GDA	56	357279	6384158	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>		
38-4-0419	Kyle Street 3 (KS3)	GDA	56	360360	6379650	Open site	Destroyed	Artefact : 12	Isolated Find	100766,10089 8,101122,1021 58,102229
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>	2807,2813	
37-6-3581	Anambah SAC 22 and PAD 11	GDA	56	358220	6382935	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>		
37-6-0121	Lochinvar;Farley;G;	AGD	56	358532	6379522	Open site	Valid	Artefact : -	Open Camp Site	102158,10222 9,102646
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>		
37-6-1828	East Lochinvar Site 10	GDA	56	356400	6380271	Open site	Destroyed	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>	3963,4482	
37-6-1834	East Lochinvar Site 5	GDA	56	356195	6380016	Open site	Destroyed	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>	4482	
38-4-1166	Anambah PAD 3	GDA	56	360000	6381700	Open site	Valid	Potential Archaeological Deposit (PAD) : 1		101566,10215 8,102229
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>		
38-4-1169	Anambah PAD 6	GDA	56	360440	6381870	Open site	Valid	Potential Archaeological Deposit (PAD) : 1		101566,10215 8,102229
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>		
37-6-1947	Rutherford Employment Area 8 (REA8)	GDA	56	358003	6379797	Open site	Valid	Artefact : 3		101300
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>		

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SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
37-6-4190	Airds of Lochinvar PAD 2	GDA	56	356540	6380229	Open site	Not a Site	Potential Archaeological Deposit (PAD) : -		
	Contact	Recorders	Archaeological Risk Assessment Services (ARAS),Eco Logical Australia Pty Ltd - Syc							Permits
37-6-4192	Airds of Lochinvar PAD 4	GDA	56	356219	6380015	Open site	Not a Site	Potential Archaeological Deposit (PAD) : -		
	Contact	Recorders	Archaeological Risk Assessment Services (ARAS),Eco Logical Australia Pty Ltd - Syc							Permits
38-4-0417	Kyle Street 1;KS1;	AGD	56	359880	6379440	Open site	Valid	Artefact : -	Open Camp Site	100898,10215 8,102229
	Contact	Recorders	Liam Dagg							Permits
37-6-2213	Christopher Road 1	GDA	56	355523	6380303	Open site	Valid	Artefact : 2		
	Contact	Recorders	Umwelt (Australia) Pty Limited - Individual users,Mr.Giles (dup ID#12832) Hamm,							Permits
37-6-3830	SITE 11 LOT 310 LOCHINVAR	GDA	56	355523	6380268	Open site	Destroyed	Artefact : 1		104406,10471 5
	Contact	Recorders	Mr.Giles Hamm,Heritage Now - Belmont							Permits
37-6-4371	Lochinvar PAD 1	GDA	56	356403	6382067	Open site	Valid	Potential Archaeological Deposit (PAD) : -, Artefact : -		
	Contact	Recorders	GML Heritage Pty Ltd - Surry Hills,GML Heritage Pty Ltd - Surry Hills,Mr.Jacob (GML)							Permits
37-6-1937	Rutherford Employment Area PAD1	GDA	56	358003	6379797	Open site	Valid	Potential Archaeological Deposit (PAD) : -		101300
	Contact	Recorders	Doctor.Penny Mccardle							Permits
38-4-0420	Kyle Street 4 (KS4)	GDA	56	360360	6379550	Open site	Destroyed	Artefact : -	Open Camp Site	100766,10089 8,101122,1021 58,102229
	Contact	Recorders	Mr.Peter Kuskie,Liam Dagg,GML Heritage Pty Ltd - Surry Hills,Mr.Jacob (GML) Kieff							Permits
37-6-1907	R1 (Greta)	GDA	56	357900	6381200	Open site	Valid	Artefact : 4		4119
	Contact	Recorders	Ms.Mary Dallas							Permits
37-6-3579	Anambah SAC 20	GDA	56	358965	6382068	Open site	Valid	Artefact : -		
	Contact	Recorders	Miss.Diana Cowie							Permits
37-6-3580	Anambah SAC 21	GDA	56	358568	6381937	Open site	Valid	Artefact : -		
	Contact	Recorders	Miss.Diana Cowie							Permits
37-6-1122	ISF 1 Rutherford	AGD	56	357650	6381250	Open site	Valid	Artefact : 1		
	Contact	Recorders	Mary Dallas Consulting Archaeologists (MDCA)							Permits
37-6-1825	East Lochinvar Site 7	GDA	56	356673	6380330	Open site	Destroyed	Artefact : -		
	Contact	Recorders	Mr.Giles (dup ID#12832) Hamm,RPS AAP Consulting Pty Ltd - York Street Sydney ,							Permits
37-6-1826	East Lochinvar Site 8	GDA	56	356532	6380262	Open site	Destroyed	Artefact : -		4482

AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : HN1046-C

Client Service ID : 1006779

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
	<u>Contact</u>	<u>Recorders</u>								
37-6-1830	East Lochinvar Site 2	GDA	56	355928	6380499	Open site	Valid	Artefact : -	3963,4482	
	<u>Contact</u>	<u>Recorders</u>								
38-4-1170	Anambah PAD 7	GDA	56	360410	6381950	Open site	Valid	Potential Archaeological Deposit (PAD) : 1	4704	101566,10215 8,102229
	<u>Contact</u>	<u>Recorders</u>								
37-6-3559	Anambah IF 12	GDA	56	358575	6383304	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>								
37-6-3566	Anambah SAC 9 and PAD 25	GDA	56	358210	6383796	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
	<u>Contact</u>	<u>Recorders</u>								
37-6-3569	Anambah SAC 12	GDA	56	357645	6381559	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>								
37-6-3572	Anambah SAC 15 and PAD 16	GDA	56	358028	6383247	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
	<u>Contact</u>	<u>Recorders</u>								
38-4-0422	Kyle Street 6 (KS6)	AGD	56	360450	6379170	Open site	Valid	Artefact : -	Open Camp Site	100766,10089 8,101122,1021 58,102229
	<u>Contact</u>	<u>Recorders</u>								
38-4-0613	ABER 1	AGD	56	361250	6381500	Open site	Valid	Artefact : -	861,2807,2813	102158,10222 9
	<u>Contact</u>	<u>Recorders</u>								
37-6-4427	Anamnah AFT-03	GDA	56	357526	6384654	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>								
38-4-2101	Anambah Lagoon	GDA	56	360515	6381467	Closed site	Partially Destroyed	Potential Archaeological Deposit (PAD) : -, Artefact : -		
	<u>Contact</u>	<u>Recorders</u>								
37-6-4368	Lochinvar ISF1	GDA	56	356468	6382010	Open site	Valid	Artefact : -	4829	
	<u>Contact</u>	<u>Recorders</u>								

** Site Status

Valid - The site has been recorded and accepted onto the system as valid

Destroyed - The site has been completely impacted or harmed usually as consequence of permit activity but sometimes also after natural events. There is nothing left of the site on the ground but proponents should proceed with caution.

Partially Destroyed - The site has been only partially impacted or harmed usually as consequence of permit activity but sometimes also after natural events. There might be parts or sections of the original site still present on the ground

Not a site - The site has been originally entered and accepted onto AHIMS as a valid site but after further investigations it was decided it is NOT an aboriginal site. Impact of this type of site does not require permit but Heritage NSW should be notified

Report generated by AHIMS Web Service on 22/05/2025 for Jacqueline Chua for the following area at Datum :GDA, Zone : 56, Eastings : 355413.0 - 362413.0, Northings : 6378958.0 - 6385958.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 118

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : HN1046-C

Client Service ID : 1006779

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
38-4-1162	Anambah-AS2	GDA	56	360643	6381665	Open site	Destroyed	Artefact : 1		101566,10215 8,102229
	Contact	Recorders	Mr.Geordie Oakes,Mr.Giles (dup ID#12832) Hamm,AECOM Australia Pty Ltd - Sydn							
37-6-2861	Christopher Road Site 1	GDA	56	355504	6380299	Open site	Destroyed	Artefact : 1		4829
	Contact	Recorders	Umwelt (Australia) Pty Limited - Individual users,Mr.Kirwan Williams,Mr.Giles Har							
37-6-1123	ISF 2 Rutherford	AGD	56	357200	6381200	Open site	Valid	Artefact : 1		3963,4080
	Contact	Recorders	Mary Dallas Consulting Archaeologists (MDCA)							
37-6-1827	East Lochinvar Site 9	GDA	56	356502	6380405	Open site	Destroyed	Artefact : -		
	Contact	Recorders	Mr.Giles (dup ID#12832) Hamm,RPS AAP Consulting Pty Ltd - York Street Sydney ,							
37-6-3562	Anambah SAC 4 and PAD 22	GDA	56	357770	6383996	Open site	Valid	Potential Archaeological Deposit (PAD) : -, Artefact : -		
	Contact	Recorders	Miss.Diana Cowie							
37-6-3575	Anambah SAC 18	GDA	56	358837	6382360	Open site	Valid	Artefact : -		
	Contact	Recorders	Miss.Diana Cowie							
38-4-2044	Lot 1 AS 3	GDA	56	360602	6381498	Open site	Destroyed	Artefact : -		
	Contact	Recorders	Mr.Geordie Oakes,Archaeological Risk Assessment Services (ARAS),Mr.Giles (dup I							
38-4-0428	KS 10;	AGD	56	360100	6378970	Open site	Valid	Artefact : -	Open Camp Site	100898,10215 8,102229
	Contact	Recorders	Liam Dagg							
37-6-4425	Anambah AFT-01	GDA	56	358241	6384226	Open site	Valid	Artefact : -		880
	Contact	Recorders	Heritage Now - Belmont,Ms.Crystal Phillips							
37-6-4477	Lochinvar Sporting, Robert Road AS4	GDA	56	355463	6380495	Open site	Valid	Artefact : -		
	Contact	Recorders	Biosis Pty Ltd - Wollongong,Mrs.Samantha Keats							
37-6-4369	Anambah Road IF1	GDA	56	359141	6383005	Open site	Valid	Artefact : -		
	Contact	Recorders	GML Heritage Pty Ltd - Surry Hills,Mr.Jacob (GML) Kiefel							
37-6-2862	Christopher Road Site 2	GDA	56	355456	6380305	Open site	Partially Destroyed	Artefact : 1		
	Contact	Recorders	Umwelt (Australia) Pty Limited - Individual users,Mr.Kirwan Williams,Mr.Giles Har							
37-6-3582	Anambah SAC 23 and PAD 13	GDA	56	358834	6383251	Open site	Valid	Art (Pigment or Engraved) : -, Artefact : -, Potential Archaeological Deposit (PAD) : -		
	Contact	Recorders	GML Heritage Pty Ltd - Surry Hills,Doctor.Tim Owen,Miss.Diana Cowie							
37-6-0122	Lochinvar;Farley;H;	AGD	56	357526	6379503	Open site	Valid	Artefact : -	Open Camp Site	102646
	Contact	Recorders	Len Dyll							

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SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
37-6-1124	PAD 1 Rutherford	AGD	56	358280	6384800	Open site	Valid	Potential Archaeological Deposit (PAD) : 1		102158,102229
	Contact	Recorders	Mary Dallas Consulting Archaeologists (MDCA)							
37-6-1939	Rutherford Employment Area Pad 3	GDA	56	359000	6379150	Open site	Valid	Potential Archaeological Deposit (PAD) : -		101300,102158,102229
	Contact	Recorders	Doctor.Penny Mccardle							
37-6-1940	Rutherford Employment Area 1 (REA1)	GDA	56	358611	6379807	Open site	Valid	Artefact : 20		101300,102158,102229
	Contact	Recorders	Doctor.Penny Mccardle							
37-6-1941	Rutherford Employment Area 2 (REA2)	GDA	56	358371	6379120	Open site	Valid	Artefact : 2		101300,102158,102229
	Contact	Recorders	Doctor.Penny Mccardle							
37-6-2777	Anambah SAC 3	GDA	56	357212	6383869	Open site	Valid	Aboriginal Ceremony and Dreaming : 1, Artefact : 1		
	Contact	Recorders	Doctor.Tim Owen							
37-6-3561	Anambah SAC 2	GDA	56	357612	6383746	Open site	Valid	Artefact : -		
	Contact	Recorders	Miss.Diana Cowie							
37-6-3564	Anambah SAC 6&7 + PAD 24&19	GDA	56	358536	6383837	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -, Stone Quarry : -		
	Contact	Recorders	Miss.Diana Cowie							
37-6-3568	Anambah SAC 11 and PAD 27	GDA	56	358102	6383978	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
	Contact	Recorders	Miss.Diana Cowie							
37-6-3570	Anambah SAC 13 and PAD 12	GDA	56	358404	6383034	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
	Contact	Recorders	Miss.Diana Cowie							
38-4-0424	Kyle Street 8;KS8;	AGD	56	360510	6379220	Open site	Valid	Artefact : -	Open Camp Site	100898,102158,102229
	Contact	Recorders	Liam Dagg							
37-6-2214	Christopher Road 2	GDA	56	355457	6380305	Open site	Partially Destroyed	Artefact : 6		
	Contact	Recorders	Umwelt (Australia) Pty Limited - Individual users,Mr.Paul Irish,Ms.Mary Dallas,Mr.							
37-6-4478	Lochinvar Sporting, Robert Road IF2	GDA	56	355416	6380323	Open site	Valid	Artefact : -	3963	
	Contact	Recorders	Biosis Pty Ltd - Wollongong,Mrs.Samantha Keats							

AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : HN1046-C

Client Service ID : 1006779

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
37-6-0989	Penn Park 1	AGD	56	357220	6380370	Open site	Valid	Artefact : -		4102
	<u>Contact</u>	<u>Recorders</u>	Jim Ring					<u>Permits</u>	2279	
37-6-1938	Rutherford Employment Area PAD 2	GDA	56	358181	6378992	Open site	Valid	Potential Archaeological Deposit (PAD) : -		101300,10215 8,102229,1022 31
	<u>Contact</u>	<u>Recorders</u>	Doctor.Penny Mccardle					<u>Permits</u>		
37-6-1054	R-1	AGD	56	357900	6381200	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Mary Dallas Consulting Archaeologists (MDCA)					<u>Permits</u>		
37-6-1835	East Lochinvar Site 1	GDA	56	355811	6380701	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Mr.Giles (dup ID#12832) Hamm					<u>Permits</u>	4704	
38-4-1164	Anambah PAD 1	GDA	56	359900	6381300	Open site	Valid	Potential Archaeological Deposit (PAD) : 1		101566,10215 8,102229
	<u>Contact</u>	<u>Recorders</u>	Mr.Giles (dup ID#12832) Hamm					<u>Permits</u>		
38-4-1167	Anambah PAD 4	GDA	56	360330	6381350	Open site	Valid	Potential Archaeological Deposit (PAD) : 1		101566,10215 8,102229
	<u>Contact</u>	<u>Recorders</u>	Mr.Giles (dup ID#12832) Hamm					<u>Permits</u>		
37-6-1946	Rutherford Employment Area 7 (REA7)	GDA	56	357951	6379762	Open site	Valid	Artefact : 2		101300
	<u>Contact</u>	<u>Recorders</u>	Doctor.Penny Mccardle					<u>Permits</u>		
38-4-2045	Lot 1 AS 4	GDA	56	360646	6381665	Open site	Destroyed	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Mr.Geordie Oakes,Archaeological Risk Assessment Services (ARAS),Mr.Giles (dup ID#12832) Hamm					<u>Permits</u>	4829	
38-4-2046	Lot 1 AS 5	GDA	56	360458	6381733	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Archaeological Risk Assessment Services (ARAS),Mr.Giles (dup ID#12832) Hamm					<u>Permits</u>		
37-6-4191	Airds of Lochinvar PAD 3	GDA	56	355909	6379924	Open site	Not a Site	Potential Archaeological Deposit (PAD) : -		
	<u>Contact</u>	<u>Recorders</u>	Archaeological Risk Assessment Services (ARAS),Eco Logical Australia Pty Ltd - Syc					<u>Permits</u>		
38-4-0421	Kyle Street 5 (KS5)	AGD	56	360410	6379400	Open site	Valid	Artefact : -	Open Camp Site	100766,10089 8,101122,1021 58,102229
	<u>Contact</u>	<u>Recorders</u>	Mr.Peter Kuskie,Liam Dagg					<u>Permits</u>	2807,2813	
38-4-0002	Rosebrook;	AGD	56	361810	6385071	Open site	Valid	Artefact : -	Open Camp Site	102158,10222 9
	<u>Contact</u>	<u>Recorders</u>	ASRSYS					<u>Permits</u>		
38-4-0611	ABER 2	AGD	56	361210	6381350	Open site	Valid	Artefact : -		98364,102158, 102229
	<u>Contact</u>	<u>Recorders</u>	Mrs.Angela Besant					<u>Permits</u>	1595	
37-6-4439	Robert Road IF1	GDA	56	355473	6380479	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Biosis Pty Ltd - Wollongong,Mrs.Samantha Keats					<u>Permits</u>		

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SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
37-6-4438	Lochinvar Sporting, Robert Road AS1	GDA	56	355473	6380389	Open site	Valid	Artefact : -		
	Contact	Recorders				Biosis Pty Ltd - Wollongong,Biosis Pty Ltd - Wollongong,Mrs.Samantha Keats,Mrs.S		Permits		
37-6-4370	Lochinvar ISF2	GDA	56	356872	6382111	Open site	Valid	Artefact : -		
	Contact	Recorders				GML Heritage Pty Ltd - Surry Hills,Mr.Jacob (GML) Kiefel		Permits		
37-6-1824	East Lochinvar Site 6	GDA	56	356724	6380310	Open site	Destroyed	Artefact : -		
	Contact	Recorders				Umwelt (Australia) Pty Limited - Individual users,Mr.Giles (dup ID#12832) Hamm,		Permits	3963	
37-6-1832	East Lochinvar Site 4	GDA	56	355955	6379972	Open site	Destroyed	Artefact : -		
	Contact	Recorders				Mr.Giles (dup ID#12832) Hamm,RPS AAP Consulting Pty Ltd - York Street Sydney ,		Permits	4482	
37-6-3555	Anambah IF 8 & PAD 23	GDA	56	358025	6383995	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
	Contact	Recorders				Miss.Diana Cowie		Permits		
37-6-3556	Anambah IF 9	GDA	56	357717	6384140	Open site	Valid	Artefact : -		
	Contact	Recorders				Miss.Diana Cowie		Permits		
37-6-3567	Anambah SAC 10 and PAD 26	GDA	56	358188	6383868	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
	Contact	Recorders				Miss.Diana Cowie		Permits		
37-6-3574	Anambah SAC 17 and PAD 1	GDA	56	359151	6382591	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
	Contact	Recorders				Miss.Diana Cowie		Permits		
38-4-2043	Lot 1 AS 2	GDA	56	360716	6381487	Open site	Destroyed	Artefact : -		
	Contact	Recorders				Mr.Geordie Oakes,Archaeological Risk Assessment Services (ARAS),Mr.Giles (dup ID#12832) Hamm,		Permits	4829	
37-6-4428	Anambah AFT-02	GDA	56	357918	6384377	Open site	Valid	Artefact : -		
	Contact	Recorders				Heritage Now - Belmont,Ms.Crystal Phillips		Permits		
37-6-4476	Lochinvar Sporting, Robert Road AS3	GDA	56	355442	6380464	Open site	Valid	Artefact : -		
	Contact	Recorders				Biosis Pty Ltd - Wollongong,Mrs.Samantha Keats		Permits		
37-6-4447	Anambah PAD 02	GDA	56	356906	6384444	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	Contact	Recorders				Heritage Now - Belmont,Ms.Crystal Phillips		Permits		
37-6-1831	East Lochinvar Site 3	GDA	56	355955	6379972	Open site	Destroyed	Artefact : -		
	Contact	Recorders				Mr.Giles (dup ID#12832) Hamm,RPS AAP Consulting Pty Ltd - York Street Sydney ,		Permits	4482	
38-4-1163	Anambah-ISF2	GDA	56	359783	6381328	Open site	Valid	Artefact : 1		101566,102158,102229
	Contact	Recorders				Mr.Giles (dup ID#12832) Hamm		Permits		

AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : HN1046-C

Client Service ID : 1006779

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
37-6-1943	Rutherford Employment Area 4 (REA4)	GDA	56	358181	6378992	Open site	Valid	Artefact : 1		101300,10215 8,102229,1022 31
	<u>Contact</u>	<u>Recorders</u>	Doctor.Penny Mccardle					<u>Permits</u>		
37-6-1948	Rutherford Employment Area 9 (REA9)	GDA	56	358005	6379815	Open site	Valid	Artefact : 1		101300
	<u>Contact</u>	<u>Recorders</u>	Doctor.Penny Mccardle					<u>Permits</u>		
37-6-3557	Anambah IF 10	AGD	56	358397	6381819	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Miss.Diana Cowie					<u>Permits</u>		
37-6-3563	Anambah SAC 5 and PAD 20	GDA	56	358246	6383842	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
	<u>Contact</u>	<u>Recorders</u>	Miss.Diana Cowie					<u>Permits</u>		
37-6-3571	Anambah SAC 14 and PAD 15	GDA	56	358068	6383015	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
	<u>Contact</u>	<u>Recorders</u>	Miss.Diana Cowie					<u>Permits</u>		
37-6-3573	Anambah SAC 16	GDA	56	358025	6383995	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
	<u>Contact</u>	<u>Recorders</u>	Miss.Diana Cowie					<u>Permits</u>		
37-6-4189	Airds of lochinvar PAD1	GDA	56	356670	6380319	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	<u>Contact</u>	<u>Recorders</u>	Archaeological Risk Assessment Services (ARAS),Mr.Giles Hamm					<u>Permits</u>		
38-4-0418	Kyle Street 2 (KS2)	GDA	56	360350	6379750	Open site	Destroyed	Artefact : -	Open Camp Site	100766,10089 8,101122,1021 58,102229
	<u>Contact</u>	<u>Recorders</u>	Mr.Peter Kuskie,Liam Dagg,GML Heritage Pty Ltd - Surry Hills,Mr.Jacob (GML) Kieff					<u>Permits</u>	2807,2813	
38-4-0423	Kyle Street 7;KS7;	AGD	56	360420	6379100	Open site	Valid	Artefact : -	Open Camp Site	100898,10215 8,102229
	<u>Contact</u>	<u>Recorders</u>	Liam Dagg					<u>Permits</u>		
38-4-2098	Anambah Rd 1	GDA	56	360242	6381142	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Eco Logical Australia Pty Ltd - Sydney - Individual users,Mr.Tyler (Virtus) Beebe					<u>Permits</u>	4853	
37-6-4446	Anambah PAD	GDA	56	357797	6384429	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	<u>Contact</u>	<u>Recorders</u>	Heritage Now - Belmont,Ms.Crystal Phillips					<u>Permits</u>		
37-6-4437	Lochinvar Sporting, Robert Road AS2	GDA	56	355443	6380319	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Biosis Pty Ltd - Wollongong,Biosis Pty Ltd - Wollongong,Mrs.Samantha Keats,Mrs.S					<u>Permits</u>		
37-6-1607	Lochinvar 1	AGD	56	355515	6380960	Open site	Valid	Artefact : 2		99841
	<u>Contact</u> Searle	<u>Recorders</u>	Doctor.Penny Mccardle					<u>Permits</u>	2456,3963	

Report generated by AHIMS Web Service on 22/05/2025 for Jacqueline Chua for the following area at Datum :GDA, Zone : 56, Eastings : 355413.0 - 362413.0, Northings : 6378958.0 - 6385958.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 118

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SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
37-6-3578	Anambah SAC 19	GDA	56	358764	6382070	Open site	Valid	Artefact : -		
	Contact	Recorders		Miss.Diana Cowie				Permits		
37-6-1125	ISF 3 Rutherford	AGD	56	357750	6381240	Open site	Valid	Artefact : 1		
	Contact	Recorders		Mary Dallas Consulting Archaeologists (MDCA)				Permits		
38-4-1165	Anambah PAD 2	GDA	56	360600	6381550	Open site	Partially Destroyed	Potential Archaeological Deposit (PAD) : 1		101566,102158,102229
	Contact	Recorders		Mr.Geordie Oakes,Mr.Giles (dup ID#12832)	Hamm,AECOM Australia Pty Ltd - Sydn			Permits	4829	
38-4-1168	Anambah PAD 5	GDA	56	360530	6381420	Closed site	Partially Destroyed	Potential Archaeological Deposit (PAD) : 1		101566,102158,102229
	Contact	Recorders		Mr.Geordie Oakes,Mr.Giles (dup ID#12832)	Hamm,AECOM Australia Pty Ltd - Sydn			Permits	4829	
38-4-1171	Anambah PAD 8	GDA	56	359850	6381370	Open site	Valid	Potential Archaeological Deposit (PAD) : 1		102158,102229
	Contact	Recorders		Mr.Giles (dup ID#12832)	Hamm			Permits		
37-6-1944	Rutherford Employment Area 5 (REA5)	GDA	56	357726	6379611	Open site	Valid	Artefact : 16		101300
	Contact	Recorders		Doctor.Penny Mccardle				Permits		
37-6-1945	Rutherford Employment Area 6 (REA6)	GDA	56	357878	6379673	Open site	Valid	Artefact : 4		101300
	Contact	Recorders		Doctor.Penny Mccardle				Permits		
37-6-1949	Rutherford Employment Area 10 (REA10)	GDA	56	358054	6379831	Open site	Valid	Artefact : 3		101300
	Contact	Recorders		Doctor.Penny Mccardle				Permits		
37-6-2228	LCC1 & PAD	GDA	56	355673	6381234	Open site	Valid	Artefact : 15, Potential Archaeological Deposit (PAD) : -		
	Contact	Recorders		Mrs.Angela Besant,Umwelt (Australia) Pty Limited - Individual users,MCH - McCarc				Permits	3936,3963,4694,4697	
37-6-3553	Anambah IF 1	GDA	56	359024	6382274	Open site	Valid	Artefact : -		
	Contact	Recorders		Miss.Diana Cowie				Permits		
37-6-3554	Anambah IF 2	GDA	56	358313	6382885	Open site	Valid	Artefact : -		
	Contact	Recorders		Miss.Diana Cowie				Permits		
37-6-3558	Anambah IF 11	GDA	56	358558	6383163	Open site	Valid	Artefact : -		
	Contact	Recorders		Miss.Diana Cowie				Permits		
37-6-3560	Anambah SAC 1 and PAD 21	GDA	56	358183	6383600	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
	Contact	Recorders		Miss.Diana Cowie				Permits		
37-6-3565	Anambah SAC 8 and PAD 28	GDA	56	358491	6383928	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		

AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : HN1046-C

Client Service ID : 1006779

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>		
37-6-2218	PAD 1 Lochinvar URA	AGD	56	355800	6379200	Open site	Not a Site	Potential Archaeological Deposit (PAD) : 1		
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>		
38-4-2102	Anambah Terrace	GDA	56	360623	6381582	Closed site	Partially Destroyed	Potential Archaeological Deposit (PAD) : -, Artefact : -		
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>	4829	
37-6-4248	Windermere ST	GDA	56	355850	6384933	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>		
37-6-4445	Anambah AFT-04	GDA	56	357279	6384158	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>		
38-4-0419	Kyle Street 3 (KS3)	GDA	56	360360	6379650	Open site	Destroyed	Artefact : 12	Isolated Find	100766,10089 8,101122,1021 58,102229
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>	2807,2813	
37-6-3581	Anambah SAC 22 and PAD 11	GDA	56	358220	6382935	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>		
37-6-0121	Lochinvar;Farley;G;	AGD	56	358532	6379522	Open site	Valid	Artefact : -	Open Camp Site	102158,10222 9,102646
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>		
37-6-1828	East Lochinvar Site 10	GDA	56	356400	6380271	Open site	Destroyed	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>	3963,4482	
37-6-1834	East Lochinvar Site 5	GDA	56	356195	6380016	Open site	Destroyed	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>	4482	
38-4-1166	Anambah PAD 3	GDA	56	360000	6381700	Open site	Valid	Potential Archaeological Deposit (PAD) : 1		101566,10215 8,102229
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>		
38-4-1169	Anambah PAD 6	GDA	56	360440	6381870	Open site	Valid	Potential Archaeological Deposit (PAD) : 1		101566,10215 8,102229
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>		
37-6-1947	Rutherford Employment Area 8 (REA8)	GDA	56	358003	6379797	Open site	Valid	Artefact : 3		101300
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>		

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SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
37-6-4190	Airds of Lochinvar PAD 2	GDA	56	356540	6380229	Open site	Not a Site	Potential Archaeological Deposit (PAD) : -		
	Contact	Recorders	Archaeological Risk Assessment Services (ARAS),Eco Logical Australia Pty Ltd - Syc							Permits
37-6-4192	Airds of Lochinvar PAD 4	GDA	56	356219	6380015	Open site	Not a Site	Potential Archaeological Deposit (PAD) : -		
	Contact	Recorders	Archaeological Risk Assessment Services (ARAS),Eco Logical Australia Pty Ltd - Syc							Permits
38-4-0417	Kyle Street 1;KS1;	AGD	56	359880	6379440	Open site	Valid	Artefact : -	Open Camp Site	100898,10215 8,102229
	Contact	Recorders	Liam Dagg							Permits
37-6-2213	Christopher Road 1	GDA	56	355523	6380303	Open site	Valid	Artefact : 2		
	Contact	Recorders	Umwelt (Australia) Pty Limited - Individual users,Mr.Giles (dup ID#12832) Hamm,							Permits
37-6-3830	SITE 11 LOT 310 LOCHINVAR	GDA	56	355523	6380268	Open site	Destroyed	Artefact : 1		104406,10471 5
	Contact	Recorders	Mr.Giles Hamm,Heritage Now - Belmont							Permits
37-6-4371	Lochinvar PAD 1	GDA	56	356403	6382067	Open site	Valid	Potential Archaeological Deposit (PAD) : -, Artefact : -		
	Contact	Recorders	GML Heritage Pty Ltd - Surry Hills,GML Heritage Pty Ltd - Surry Hills,Mr.Jacob (GML)							Permits
37-6-1937	Rutherford Employment Area PAD1	GDA	56	358003	6379797	Open site	Valid	Potential Archaeological Deposit (PAD) : -		101300
	Contact	Recorders	Doctor.Penny Mccardle							Permits
38-4-0420	Kyle Street 4 (KS4)	GDA	56	360360	6379550	Open site	Destroyed	Artefact : -	Open Camp Site	100766,10089 8,101122,1021 58,102229
	Contact	Recorders	Mr.Peter Kuskie,Liam Dagg,GML Heritage Pty Ltd - Surry Hills,Mr.Jacob (GML) Kieff							Permits
37-6-1907	R1 (Greta)	GDA	56	357900	6381200	Open site	Valid	Artefact : 4		4119
	Contact	Recorders	Ms.Mary Dallas							Permits
37-6-3579	Anambah SAC 20	GDA	56	358965	6382068	Open site	Valid	Artefact : -		
	Contact	Recorders	Miss.Diana Cowie							Permits
37-6-3580	Anambah SAC 21	GDA	56	358568	6381937	Open site	Valid	Artefact : -		
	Contact	Recorders	Miss.Diana Cowie							Permits
37-6-1122	ISF 1 Rutherford	AGD	56	357650	6381250	Open site	Valid	Artefact : 1		
	Contact	Recorders	Mary Dallas Consulting Archaeologists (MDCA)							Permits
37-6-1825	East Lochinvar Site 7	GDA	56	356673	6380330	Open site	Destroyed	Artefact : -		
	Contact	Recorders	Mr.Giles (dup ID#12832) Hamm,RPS AAP Consulting Pty Ltd - York Street Sydney ,							Permits
37-6-1826	East Lochinvar Site 8	GDA	56	356532	6380262	Open site	Destroyed	Artefact : -		4482

AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : HN1046-C

Client Service ID : 1006779

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
	<u>Contact</u>	<u>Recorders</u>								
37-6-1830	East Lochinvar Site 2	GDA	56	355928	6380499	Open site	Valid	Artefact : -	3963,4482	
	<u>Contact</u>	<u>Recorders</u>								
38-4-1170	Anambah PAD 7	GDA	56	360410	6381950	Open site	Valid	Potential Archaeological Deposit (PAD) : 1	4704	101566,10215 8,102229
	<u>Contact</u>	<u>Recorders</u>								
37-6-3559	Anambah IF 12	GDA	56	358575	6383304	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>								
37-6-3566	Anambah SAC 9 and PAD 25	GDA	56	358210	6383796	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
	<u>Contact</u>	<u>Recorders</u>								
37-6-3569	Anambah SAC 12	GDA	56	357645	6381559	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>								
37-6-3572	Anambah SAC 15 and PAD 16	GDA	56	358028	6383247	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
	<u>Contact</u>	<u>Recorders</u>								
38-4-0422	Kyle Street 6 (KS6)	AGD	56	360450	6379170	Open site	Valid	Artefact : -	Open Camp Site	100766,10089 8,101122,1021 58,102229
	<u>Contact</u>	<u>Recorders</u>								
38-4-0613	ABER 1	AGD	56	361250	6381500	Open site	Valid	Artefact : -	861,2807,2813	102158,10222 9
	<u>Contact</u>	<u>Recorders</u>								
37-6-4427	Anamnah AFT-03	GDA	56	357526	6384654	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>								
38-4-2101	Anambah Lagoon	GDA	56	360515	6381467	Closed site	Partially Destroyed	Potential Archaeological Deposit (PAD) : -, Artefact : -		
	<u>Contact</u>	<u>Recorders</u>								
37-6-4368	Lochinvar ISF1	GDA	56	356468	6382010	Open site	Valid	Artefact : -	4829	
	<u>Contact</u>	<u>Recorders</u>								

** Site Status

Valid - The site has been recorded and accepted onto the system as valid

Destroyed - The site has been completely impacted or harmed usually as consequence of permit activity but sometimes also after natural events. There is nothing left of the site on the ground but proponents should proceed with caution.

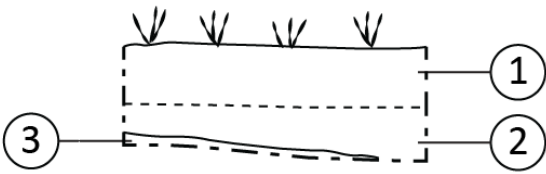
Partially Destroyed - The site has been only partially impacted or harmed usually as consequence of permit activity but sometimes also after natural events. There might be parts or sections of the original site still present on the ground

Not a site - The site has been originally entered and accepted onto AHIMS as a valid site but after further investigations it was decided it is NOT an aboriginal site. Impact of this type of site does not require permit but Heritage NSW should be notified

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Appendix 3 Trench Register


Trench Number	1
Trench Coordinates GDA94, Zone 56	358203, 6384308
Method of Excavation	Hand excavation, excavated in 5 cm spits
Maximum Trench Depth	20 cm
Termination of Trench	Clay
Soil Description	<p style="text-align: center;">Test Pit 1 North Section</p>  <p>1 Very dark brown (10YR 2/2) silty loam</p> <p>2 Very dark brown (10YR 2/2) silty clay loam</p> <p>3 Very dark greyish brown (10YR 3/2) clay</p>
Aboriginal Objects	0



End of excavation, north towards top of page



End of excavation, north section

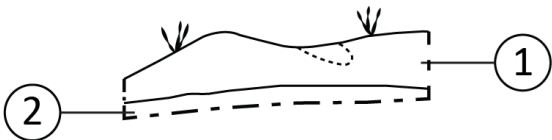
Trench Number	2
Trench Coordinates GDA94, Zone 56	358226, 6384297
Method of Excavation	Hand excavation, excavated in 10 cm spits
Maximum Trench Depth	15 cm
Termination of Trench	Clay
Soil Description	<p>Test Pit 2 North Section</p>  <p>1 Dark brown (7.5YR 3/2) silty loam</p> <p>2 Light brown (10YR 4/3) clay</p>
Aboriginal Objects	0



End of excavation, north towards top of page



End of excavation, north section

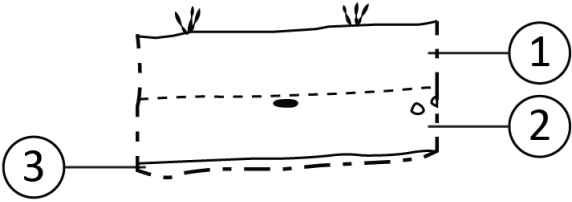
Trench Number	3
Trench Coordinates GDA94, Zone 56	358272, 6384275
Method of Excavation	Hand excavation, excavated in 10 cm spits
Maximum Trench Depth	11 cm
Termination of Trench	Clay
Soil Description	<p style="text-align: center;">Test Pit 3 North Section</p>  <p>1 Very dark brown (10YR 3/2) silty clay loam</p> <p>2 Dark brown (7.5YR 3/3) clay</p>
Aboriginal Objects	1



End of excavation, north towards left of page



End of excavation, north section


Trench Number	4
Trench Coordinates GDA94, Zone 56	358294, 6384266
Method of Excavation	Hand excavation, excavated in 10 cm spits
Maximum Trench Depth	20 cm
Termination of Trench	Clay
Soil Description	<p style="text-align: center;">Test Pit 4 North Section</p>  <p>1 Dark grey (10YR 4/1) silty loam</p> <p>2 Very dark greyish brown (10YR 3/2) silty clay loam</p> <p>3 Brown (10YR 4/3) clay</p>
Aboriginal Objects	0



End of excavation, north towards top of page



End of excavation, north section

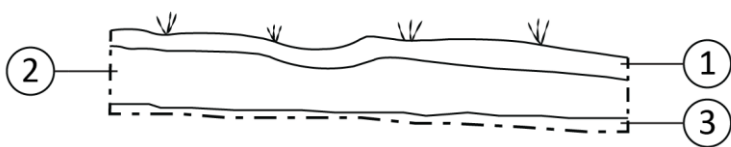
Trench Number	5
Trench Coordinates GDA94, Zone 56	358135, 6384396
Method of Excavation	Hand excavation, excavated in 10 cm spits
Maximum Trench Depth	13 cm
Termination of Trench	Clay
Soil Description	<p style="text-align: center;">Test Pit 5 North Section</p>  <p>1 Very dark brown (10YR 2/2) silty loam</p> <p>2 Dark brown (10YR 3/3) silty clay loam</p> <p>3 Very dark greyish brown (10YR 3/2) clay</p>
Aboriginal Objects	6



End of excavation, north towards top of page



End of excavation, north section


Trench Number	5 ext
Trench Coordinates GDA94, Zone 56	358135, 6384396
Method of Excavation	Hand excavation, excavated in 10 cm spits
Maximum Trench Depth	17 cm
Termination of Trench	Clay
Soil Description	<p style="text-align: center;">Test Pit 5 ext North Section</p>  <p>1 Black (10YR 2/1) silty loam</p> <p>2 Very dark brown (10YR 2/2) silty clay loam</p> <p>3 Brown (7.5YR 4/3) clay</p>
Aboriginal Objects	3



End of excavation, north towards top of page



End of excavation, north section

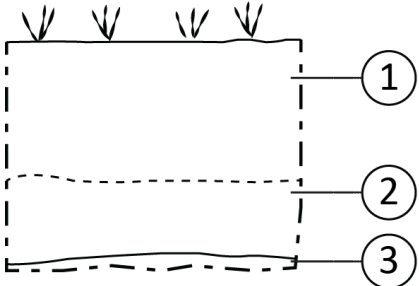
Trench Number	6
Trench Coordinates GDA94, Zone 56	358159, 6384385
Method of Excavation	Hand excavation, excavated in 10 cm spits
Maximum Trench Depth	10 cm
Termination of Trench	Silty loam
Soil Description	<p>Test Pit 6 North Section</p>  <p>1 Dark reddish brown (5YR 3/3) silty loam</p>
Aboriginal Objects	0



End of excavation, north towards top of page



End of excavation, north section

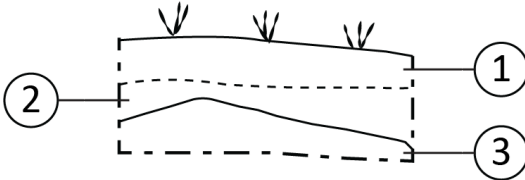
Trench Number	7
Trench Coordinates GDA94, Zone 56	358181, 6384374
Method of Excavation	Hand excavation, excavated in 10 cm spits
Maximum Trench Depth	39 cm
Termination of Trench	Clay
Soil Description	<p>Test Pit 7 North Section</p>  <p>1 Very dark brown (10YR 2/2) silty loam</p> <p>2 Very dark brown (10YR 2/2) silty clay loam</p> <p>3 Black (10YR 2/1) clay</p>
Aboriginal Objects	1



End of excavation, north towards top of page



End of excavation, north section


Trench Number	8
Trench Coordinates GDA94, Zone 56	358205, 6384364
Method of Excavation	Hand excavation, excavated in 10 cm spits
Maximum Trench Depth	17 cm
Termination of Trench	Clay
Soil Description	<p style="text-align: center;">Test Pit 8 North Section</p>  <p>1 Dark brown (7.5YR 3/2) silty loam</p> <p>2 Dark brown (7.5YR 3/2) silty clay</p> <p>3 Dark yellowish brown (10YR 4/4) clay</p>
Aboriginal Objects	0



End of excavation, north towards top of page



End of excavation, north section

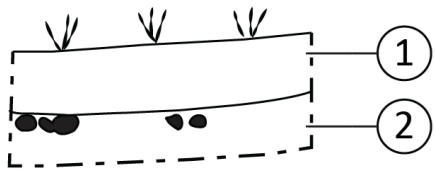
Trench Number	9
Trench Coordinates GDA94, Zone 56	358227, 6384354
Method of Excavation	Hand excavation, excavated in 10 cm spits
Maximum Trench Depth	9 cm
Termination of Trench	Clay
Soil Description	<p style="text-align: center;">Test Pit 9 North Section</p>  <p>1 Dark reddish brown (5YR 3/2) silty loam</p> <p>2 Dark greyish brown (10YR 4/2) clay</p>
Aboriginal Objects	0



End of excavation, north towards top of page



End of excavation, north section

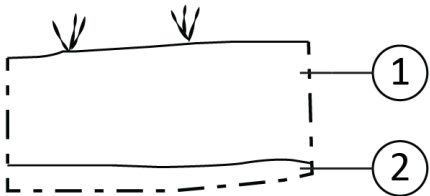
Trench Number	10
Trench Coordinates GDA94, Zone 56	358248, 6384342
Method of Excavation	Hand excavation, excavated in 10 cm spits
Maximum Trench Depth	19 cm
Termination of Trench	Clay
Soil Description	<p>Test Pit 10 North Section</p>  <p>1 Very dark greyish brown (10YR 3/2) silty loam</p> <p>2 Brown (10YR 4/3) silty loam</p> <p>3 Dark grey brown (10YR 4/2) clay</p>
Aboriginal Objects	0



End of excavation, north towards top of page



End of excavation, north section

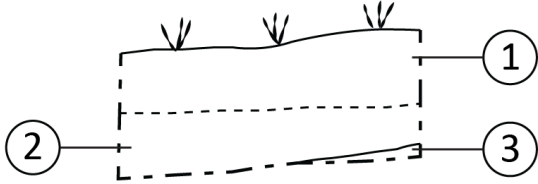
Trench Number	11
Trench Coordinates GDA94, Zone 56	358271, 6384331
Method of Excavation	Hand excavation, excavated in 10 cm spits
Maximum Trench Depth	28 cm
Termination of Trench	Clay
Soil Description	<p>Test Pit 11 North Section</p>  <p>1 Very dark greyish brown (10YR 3/2) silty loam</p> <p>2 Dark reddish brown (5YR 3/3) clay</p>
Aboriginal Objects	1



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End of excavation, north section

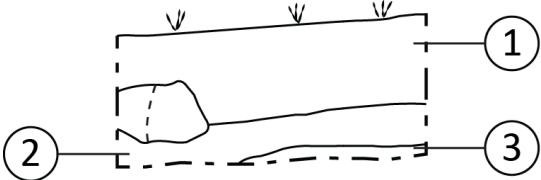
Trench Number	12
Trench Coordinates GDA94, Zone 56	358293, 6384320
Method of Excavation	Hand excavation, excavated in 10 cm spits
Maximum Trench Depth	19 cm
Termination of Trench	Clay
Soil Description	<p style="text-align: center;">Test Pit 12 North Section</p>  <p>1 Dark brown (7.5YR 3/2) silty loam</p> <p>2 Dark brown (7.5YR 3/2) silty clay</p> <p>3 Very dark greyish brown (10YR 3/2) clay</p>
Aboriginal Objects	0



End of excavation, north towards top of page



End of excavation, north section

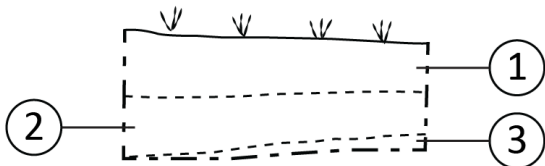
Trench Number	13
Trench Coordinates GDA94, Zone 56	358314, 6384309
Method of Excavation	Hand excavation, excavated in 10 cm spits
Maximum Trench Depth	28 cm
Termination of Trench	Clay
Soil Description	<p style="text-align: center;">Test Pit 13 North Section</p>  <p>1 Dark brown (10YR 3/2) silty loam</p> <p>2 Light brown-grey (10YR 5/2) silty clay loam</p> <p>3 Dark brown-grey (10YR 2/2) mottled clay</p>
Aboriginal Objects	4



End of excavation, north towards top of page



End of excavation, north section

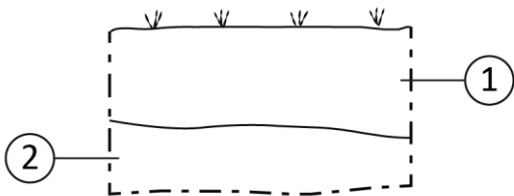
Trench Number	14
Trench Coordinates GDA94, Zone 56	358337, 6384298
Method of Excavation	Hand excavation, excavated in 10 cm spits
Maximum Trench Depth	20 cm
Termination of Trench	Clay
Soil Description	<p style="text-align: center;">Test Pit 14 North Section</p>  <p>1 Dark brown (7.5YR 3/2) silty loam</p> <p>2 Dark brown (7.5YR 2.5/1) silty clay loam</p> <p>3 Black (10YR 2/1) clay</p>
Aboriginal Objects	1



End of excavation, north towards top of page



End of excavation, north section

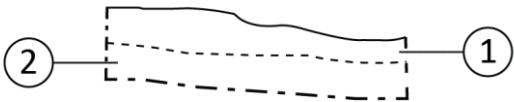
Trench Number	15
Trench Coordinates GDA94, Zone 56	358361, 6384287
Method of Excavation	Hand excavation, excavated in 10 cm spits
Maximum Trench Depth	30 cm
Termination of Trench	Clay
Soil Description	<p style="text-align: center;">Test Pit 15 North Section</p>  <p>1 Dark brown (7.5YR 3/2) silty loam</p> <p>2 Dark brown (7.5YR 2.5/1) silty clay loam</p> <p>3 Black (10YR 2/1) clay</p>
Aboriginal Objects	0



End of excavation, north towards top of page



End of excavation, north section

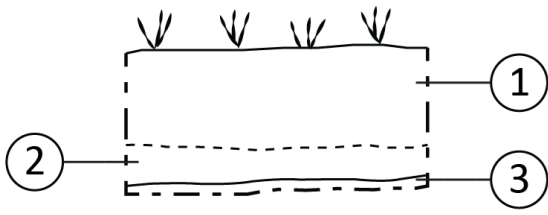
Trench Number	16
Trench Coordinates GDA94, Zone 56	358159, 6384443
Method of Excavation	Hand excavation, excavated in 10 cm spits
Maximum Trench Depth	23 cm
Termination of Trench	Clay
Soil Description	<p style="text-align: center;">Test Pit 16 North Section</p>  <p>1 Very dark greyish brown (10YR 3/2) silty loam</p> <p>2 Dark brown (7.5YR 3/2) clay</p>
Aboriginal Objects	0



End of excavation, north towards top of page



End of excavation, north section

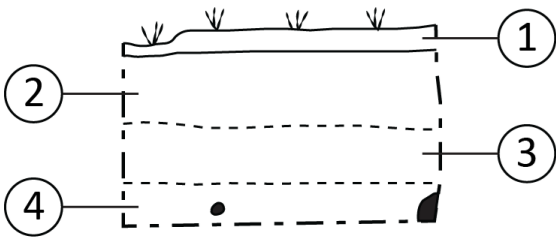
Trench Number	17
Trench Coordinates GDA94, Zone 56	358204, 6384419
Method of Excavation	Hand excavation, excavated in 10 cm spits
Maximum Trench Depth	20 cm
Termination of Trench	Clay
Soil Description	<p style="text-align: center;">Test Pit 17 North Section</p>  <p>1 Very dark brown (10YR 2/2) silty loam</p> <p>2 Very dark brown (10YR 2/2) silty clay loam</p> <p>3 Dark brown (7.5YR 3/2) clay</p>
Aboriginal Objects	0



End of excavation, north towards top of page



End of excavation, north section

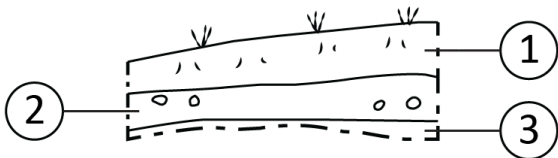
Trench Number	18
Trench Coordinates GDA94, Zone 56	358248, 6384398
Method of Excavation	Hand excavation, excavated in 10 cm spits
Maximum Trench Depth	20 cm
Termination of Trench	Clay
Soil Description	<p style="text-align: center;">Test Pit 18 North Section</p>  <p>1 Very dark greyish brown (10YR 3/2) silty loam</p> <p>2 Very dark brown (10YR 2/2) silty loam</p> <p>3 Brown (10YR 4/3) silty clay loam</p> <p>4 Brown (10YR 4/3) clay</p>
Aboriginal Objects	0



End of excavation, north towards top of page



End of excavation, north section

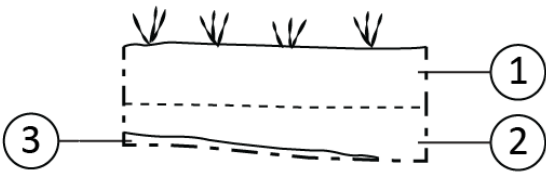
Trench Number	19
Trench Coordinates GDA94, Zone 56	358293, 6384373
Method of Excavation	Hand excavation, excavated in 10 cm spits
Maximum Trench Depth	20 cm
Termination of Trench	Clay
Soil Description	<p style="text-align: center;">Test Pit 19 North Section</p>  <p>1 Very dark greyish brown (10YR 3/2) silty loam</p> <p>2 Very dark greyish brown (10YR 3/2) silty clay</p> <p>3 Dark brown (10YR 3/3) clay</p>
Aboriginal Objects	0



End of excavation, north towards top of page



End of excavation, north section


Trench Number	1
Trench Coordinates GDA94, Zone 56	358203, 6384308
Method of Excavation	Hand excavation, excavated in 5 cm spits
Maximum Trench Depth	20 cm
Termination of Trench	Clay
Soil Description	<p style="text-align: center;">Test Pit 1 North Section</p>  <p>1 Very dark brown (10YR 2/2) silty loam</p> <p>2 Very dark brown (10YR 2/2) silty clay loam</p> <p>3 Very dark greyish brown (10YR 3/2) clay</p>
Aboriginal Objects	0



End of excavation, north towards top of page



End of excavation, north section

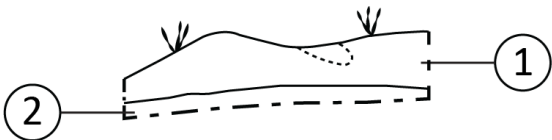
Trench Number	2
Trench Coordinates GDA94, Zone 56	358226, 6384297
Method of Excavation	Hand excavation, excavated in 10 cm spits
Maximum Trench Depth	15 cm
Termination of Trench	Clay
Soil Description	<p>Test Pit 2 North Section</p>  <p>1 Dark brown (7.5YR 3/2) silty loam</p> <p>2 Light brown (10YR 4/3) clay</p>
Aboriginal Objects	0



End of excavation, north towards top of page



End of excavation, north section

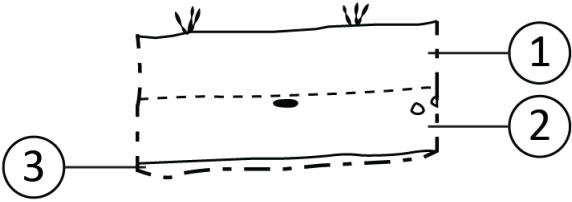
Trench Number	3
Trench Coordinates GDA94, Zone 56	358272, 6384275
Method of Excavation	Hand excavation, excavated in 10 cm spits
Maximum Trench Depth	11 cm
Termination of Trench	Clay
Soil Description	<p style="text-align: center;">Test Pit 3 North Section</p>  <p>1 Very dark brown (10YR 3/2) silty clay loam</p> <p>2 Dark brown (7.5YR 3/3) clay</p>
Aboriginal Objects	1



End of excavation, north towards left of page



End of excavation, north section


Trench Number	4
Trench Coordinates GDA94, Zone 56	358294, 6384266
Method of Excavation	Hand excavation, excavated in 10 cm spits
Maximum Trench Depth	20 cm
Termination of Trench	Clay
Soil Description	<p style="text-align: center;">Test Pit 4 North Section</p>  <p>1 Dark grey (10YR 4/1) silty loam</p> <p>2 Very dark greyish brown (10YR 3/2) silty clay loam</p> <p>3 Brown (10YR 4/3) clay</p>
Aboriginal Objects	0



End of excavation, north towards top of page



End of excavation, north section

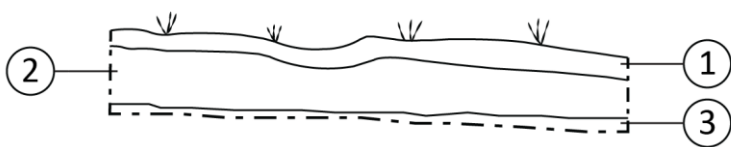
Trench Number	5
Trench Coordinates GDA94, Zone 56	358135, 6384396
Method of Excavation	Hand excavation, excavated in 10 cm spits
Maximum Trench Depth	13 cm
Termination of Trench	Clay
Soil Description	<p style="text-align: center;">Test Pit 5 North Section</p>  <p>1 Very dark brown (10YR 2/2) silty loam</p> <p>2 Dark brown (10YR 3/3) silty clay loam</p> <p>3 Very dark greyish brown (10YR 3/2) clay</p>
Aboriginal Objects	6



End of excavation, north towards top of page



End of excavation, north section


Trench Number	5 ext
Trench Coordinates GDA94, Zone 56	358135, 6384396
Method of Excavation	Hand excavation, excavated in 10 cm spits
Maximum Trench Depth	17 cm
Termination of Trench	Clay
Soil Description	<p style="text-align: center;">Test Pit 5 ext North Section</p>  <p>1 Black (10YR 2/1) silty loam</p> <p>2 Very dark brown (10YR 2/2) silty clay loam</p> <p>3 Brown (7.5YR 4/3) clay</p>
Aboriginal Objects	3



End of excavation, north towards top of page



End of excavation, north section

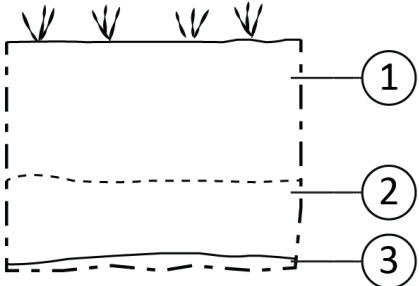
Trench Number	6
Trench Coordinates GDA94, Zone 56	358159, 6384385
Method of Excavation	Hand excavation, excavated in 10 cm spits
Maximum Trench Depth	10 cm
Termination of Trench	Silty loam
Soil Description	<p>Test Pit 6 North Section</p>  <p>1 Dark reddish brown (5YR 3/3) silty loam</p>
Aboriginal Objects	0



End of excavation, north towards top of page



End of excavation, north section

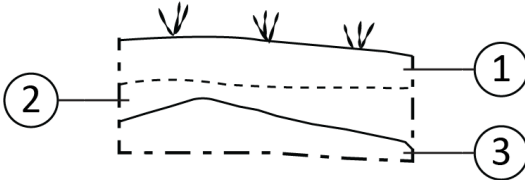
Trench Number	7
Trench Coordinates GDA94, Zone 56	358181, 6384374
Method of Excavation	Hand excavation, excavated in 10 cm spits
Maximum Trench Depth	39 cm
Termination of Trench	Clay
Soil Description	<p>Test Pit 7 North Section</p>  <p>1 Very dark brown (10YR 2/2) silty loam</p> <p>2 Very dark brown (10YR 2/2) silty clay loam</p> <p>3 Black (10YR 2/1) clay</p>
Aboriginal Objects	1



End of excavation, north towards top of page



End of excavation, north section


Trench Number	8
Trench Coordinates GDA94, Zone 56	358205, 6384364
Method of Excavation	Hand excavation, excavated in 10 cm spits
Maximum Trench Depth	17 cm
Termination of Trench	Clay
Soil Description	<p style="text-align: center;">Test Pit 8 North Section</p>  <p>1 Dark brown (7.5YR 3/2) silty loam</p> <p>2 Dark brown (7.5YR 3/2) silty clay</p> <p>3 Dark yellowish brown (10YR 4/4) clay</p>
Aboriginal Objects	0



End of excavation, north towards top of page



End of excavation, north section


Trench Number	9
Trench Coordinates GDA94, Zone 56	358227, 6384354
Method of Excavation	Hand excavation, excavated in 10 cm spits
Maximum Trench Depth	9 cm
Termination of Trench	Clay
Soil Description	<p style="text-align: center;">Test Pit 9 North Section</p>  <p>1 Dark reddish brown (5YR 3/2) silty loam</p> <p>2 Dark greyish brown (10YR 4/2) clay</p>
Aboriginal Objects	0



End of excavation, north towards top of page



End of excavation, north section

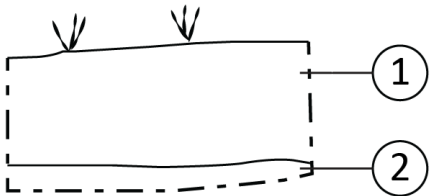
Trench Number	10
Trench Coordinates GDA94, Zone 56	358248, 6384342
Method of Excavation	Hand excavation, excavated in 10 cm spits
Maximum Trench Depth	19 cm
Termination of Trench	Clay
Soil Description	<p>Test Pit 10 North Section</p>  <p>1 Very dark greyish brown (10YR 3/2) silty loam</p> <p>2 Brown (10YR 4/3) silty loam</p> <p>3 Dark grey brown (10YR 4/2) clay</p>
Aboriginal Objects	0



End of excavation, north towards top of page



End of excavation, north section

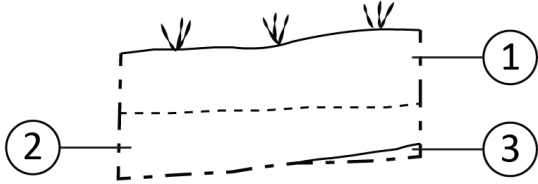
Trench Number	11
Trench Coordinates GDA94, Zone 56	358271, 6384331
Method of Excavation	Hand excavation, excavated in 10 cm spits
Maximum Trench Depth	28 cm
Termination of Trench	Clay
Soil Description	<p>Test Pit 11 North Section</p>  <p>1 Very dark greyish brown (10YR 3/2) silty loam</p> <p>2 Dark reddish brown (5YR 3/3) clay</p>
Aboriginal Objects	1



End of excavation, north towards top of page



End of excavation, north section

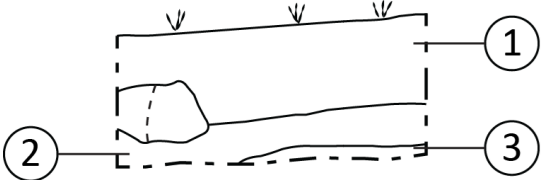
Trench Number	12
Trench Coordinates GDA94, Zone 56	358293, 6384320
Method of Excavation	Hand excavation, excavated in 10 cm spits
Maximum Trench Depth	19 cm
Termination of Trench	Clay
Soil Description	<p style="text-align: center;">Test Pit 12 North Section</p>  <p>1 Dark brown (7.5YR 3/2) silty loam</p> <p>2 Dark brown (7.5YR 3/2) silty clay</p> <p>3 Very dark greyish brown (10YR 3/2) clay</p>
Aboriginal Objects	0



End of excavation, north towards top of page



End of excavation, north section

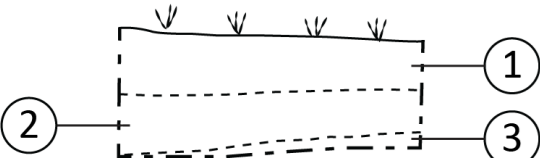
Trench Number	13
Trench Coordinates GDA94, Zone 56	358314, 6384309
Method of Excavation	Hand excavation, excavated in 10 cm spits
Maximum Trench Depth	28 cm
Termination of Trench	Clay
Soil Description	<p style="text-align: center;">Test Pit 13 North Section</p>  <p>1 Dark brown (10YR 3/2) silty loam</p> <p>2 Light brown-grey (10YR 5/2) silty clay loam</p> <p>3 Dark brown-grey (10YR 2/2) mottled clay</p>
Aboriginal Objects	4



End of excavation, north towards top of page



End of excavation, north section

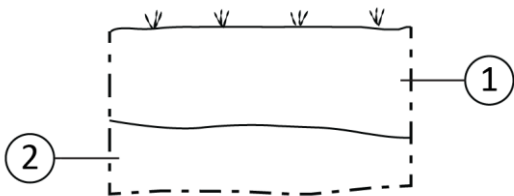
Trench Number	14
Trench Coordinates GDA94, Zone 56	358337, 6384298
Method of Excavation	Hand excavation, excavated in 10 cm spits
Maximum Trench Depth	20 cm
Termination of Trench	Clay
Soil Description	<p style="text-align: center;">Test Pit 14 North Section</p>  <p>1 Dark brown (7.5YR 3/2) silty loam</p> <p>2 Dark brown (7.5YR 2.5/1) silty clay loam</p> <p>3 Black (10YR 2/1) clay</p>
Aboriginal Objects	1



End of excavation, north towards top of page



End of excavation, north section

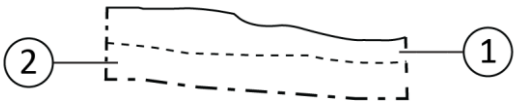
Trench Number	15
Trench Coordinates GDA94, Zone 56	358361, 6384287
Method of Excavation	Hand excavation, excavated in 10 cm spits
Maximum Trench Depth	30 cm
Termination of Trench	Clay
Soil Description	<p style="text-align: center;">Test Pit 15 North Section</p>  <p>1 Dark brown (7.5YR 3/2) silty loam</p> <p>2 Dark brown (7.5YR 2.5/1) silty clay loam</p> <p>3 Black (10YR 2/1) clay</p>
Aboriginal Objects	0



End of excavation, north towards top of page



End of excavation, north section

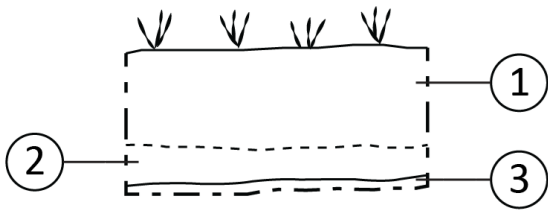
Trench Number	16
Trench Coordinates GDA94, Zone 56	358159, 6384443
Method of Excavation	Hand excavation, excavated in 10 cm spits
Maximum Trench Depth	23 cm
Termination of Trench	Clay
Soil Description	<p style="text-align: center;">Test Pit 16 North Section</p>  <p>1 Very dark greyish brown (10YR 3/2) silty loam</p> <p>2 Dark brown (7.5YR 3/2) clay</p>
Aboriginal Objects	0



End of excavation, north towards top of page



End of excavation, north section

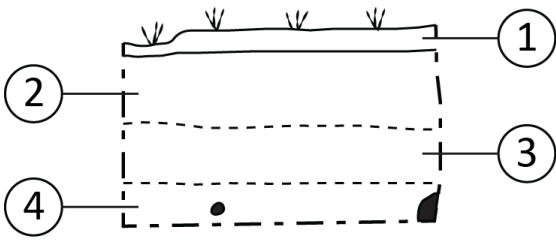
Trench Number	17
Trench Coordinates GDA94, Zone 56	358204, 6384419
Method of Excavation	Hand excavation, excavated in 10 cm spits
Maximum Trench Depth	20 cm
Termination of Trench	Clay
Soil Description	<p style="text-align: center;">Test Pit 17 North Section</p>  <p>1 Very dark brown (10YR 2/2) silty loam</p> <p>2 Very dark brown (10YR 2/2) silty clay loam</p> <p>3 Dark brown (7.5YR 3/2) clay</p>
Aboriginal Objects	0



End of excavation, north towards top of page



End of excavation, north section

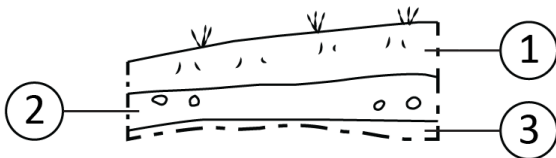
Trench Number	18
Trench Coordinates GDA94, Zone 56	358248, 6384398
Method of Excavation	Hand excavation, excavated in 10 cm spits
Maximum Trench Depth	20 cm
Termination of Trench	Clay
Soil Description	<p style="text-align: center;">Test Pit 18 North Section</p>  <p>1 Very dark greyish brown (10YR 3/2) silty loam</p> <p>2 Very dark brown (10YR 2/2) silty loam</p> <p>3 Brown (10YR 4/3) silty clay loam</p> <p>4 Brown (10YR 4/3) clay</p>
Aboriginal Objects	0



End of excavation, north towards top of page



End of excavation, north section

Trench Number	19
Trench Coordinates GDA94, Zone 56	358293, 6384373
Method of Excavation	Hand excavation, excavated in 10 cm spits
Maximum Trench Depth	20 cm
Termination of Trench	Clay
Soil Description	<p style="text-align: center;">Test Pit 19 North Section</p>  <p>1 Very dark greyish brown (10YR 3/2) silty loam</p> <p>2 Very dark greyish brown (10YR 3/2) silty clay</p> <p>3 Dark brown (10YR 3/3) clay</p>
Aboriginal Objects	0



End of excavation, north towards top of page



End of excavation, north section

Appendix 4 Artefact Analysis

Artefact ID#	Test Pit	Spit	Raw Material	Colour	Artefact Type	Platform Type	Termination	Core Type	Cortex	Weight	Length	Width	Thickness	Notes
TP03-01	TP03	0-10cm	Silcrete	Red/ Yellow	Proximal Flake	Plain			0%	0.11	6.68	12.2	1.1	
TP05-01	TP05	10-20cm	IMT	Yellow	Proximal Flake	Cortical			>50%	4.56	36.2	14.92	7	
TP05-02	TP05	10-20cm	IMT	Grey	Flake Fragment				0%	<0.02	6.4	5.5	1	
TP05-03	TP05	10-20cm	IMT	Grey	Flake Fragment				0%	<0.02	4.1	4	0.7	
TP05-04	TP05	10-20cm	IMT	Grey	Proximal Flake	Plain			0%	0.07	6.4	9	2	
TP05-05	TP05	10-20cm	IMT	Pink	Flake Fragment				<25%	0.45	14.7	7	6.4	
TP05-06	TP05	10-20cm	Silcrete	Pink	Distal Flake		Feather		0%	0.18	9.4	10.7	1.5	
TP05A-01	TP05A	10-20cm	IMT	Cream	Proximal Flake				0%	6.27	31.78	29.1	6.11	
														Retouch on two sides of back, usewear on left
TP05B-01	TP05B	10-20cm	Silcrete	Red/ Yellow	Tool (broken)				<25%	9.26	41.5	21	12.42	ventral
TP05B-02	TP05B	10-20cm	IMT	Red	Medial Flake				<25%	0.96	6.52	23.2	5.1	
														Negative flake
TP07-01	TP07	20-30cm	IMT	Red	Proximal Flake				0%	0.76	12.4	14.4	4.5	scar on dorsal
TP11-01	TP11	10-20cm	Silcrete	Red	Flake Fragment				0%	0.53	14.4	10.7	5	
TP13-01	TP13	0-10cm	Silcrete	Cream	Flake Fragment				0%	0.13	8.46	5	2.84	
														Red cortex, grey inside, 3 negative flake
TP13-02	TP13	10-20cm	Chert	Red/Grey	Core			Bi-lateral	>50%	13.21	25.42	21.18	20.3	scars
TP13-03	TP13	10-20cm	Basalt	Black	Cobble				100%	285.5	92.56	57.5	30.6	Pecking
TP13-04	TP13	20-30cm	FGS	Black	Cobble				100%		105.500	95	65.2	Pecking
														Broken Geometric
TP14-01	TP14	5-10cm	Silcrete	Red	Tool (broken)				0%	0.48	15.6	7.2	4.42	microlith