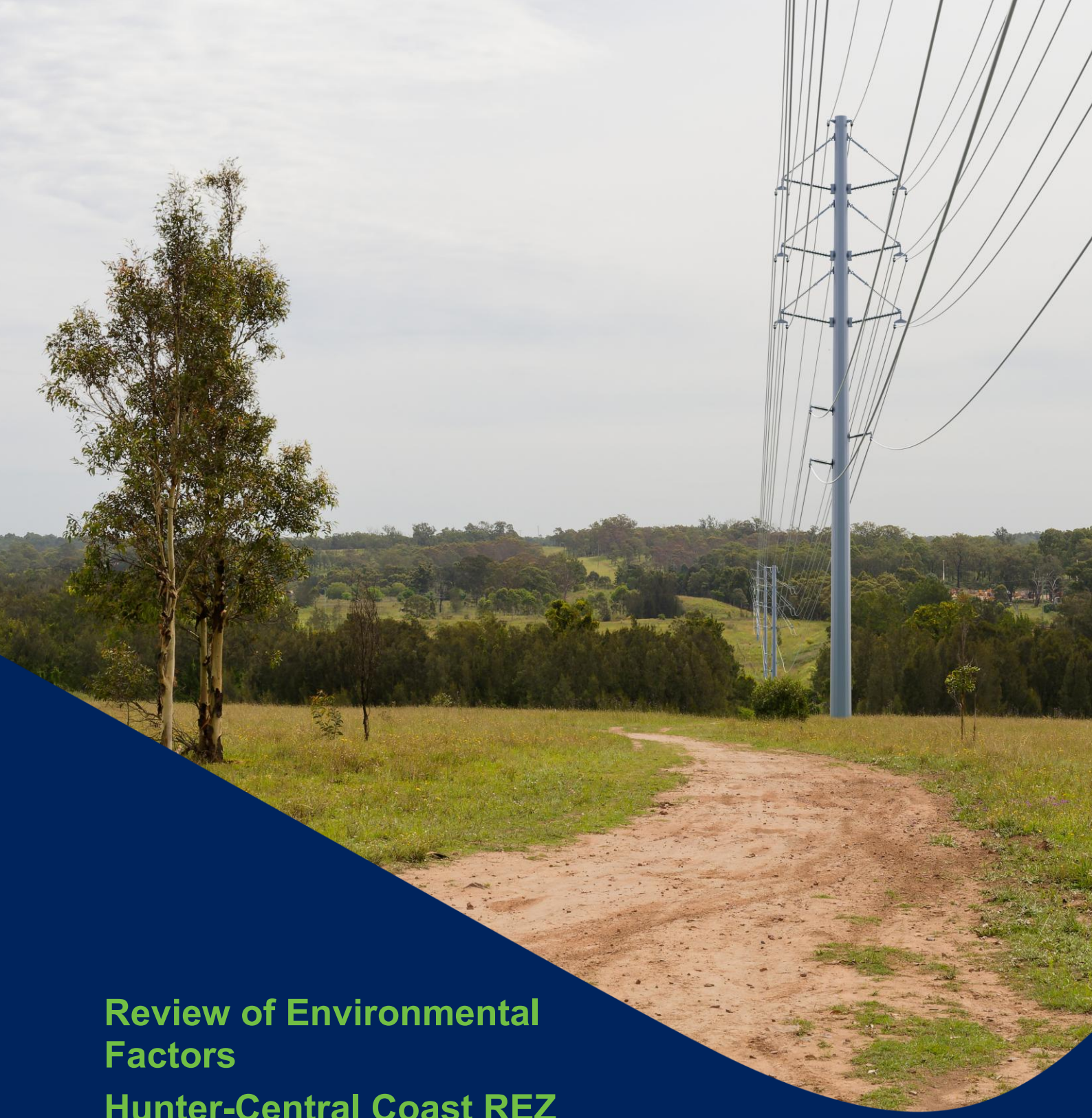

# Review of Environmental Factors

# Hunter-Central Coast REZ Network Infrastructure

**Appendix I – Aboriginal Heritage**

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Ausgrid

HUNTER-CENTRAL COAST RENEWABLE ENERGY ZONE (HCC REZ)

# ABORIGINAL CULTURAL HERITAGE ASSESSMENT REPORT

Report to Ausgrid

LGAs: Cessnock, Singleton, and Muswellbrook

August 2025

APEX ARCHAEOLOGY

PO Box 236, Nowra, NSW 2541 | heritage@apexarchaeology.com.au | www.apexarchaeology.com.au

ABN 56 625 618 993

Apex Archaeology acknowledges and pays respect to the past, present and future Traditional Custodians and Elders of this nation and in whose land this assessment took place, and to the continuation of cultural, spiritual and educational practices of Aboriginal and Torres Strait Islander peoples.

This report contains confidential information which should not be made publicly available.

Aboriginal people are advised that this report contains reference to deceased people. Further, this report includes high level discussions of sites which may be culturally sensitive, including gender-based restricted sites.

## Document Control

The following register documents the development and issue of the document entitled 'Hunter-Central Coast Renewable Energy Zone (HCC REZ): Aboriginal Cultural Heritage Assessment Report', prepared by Apex Archaeology in accordance with its quality management system.

| Revision | Prepared by | Reviewed by | Comment | Issue Date |
|---|---|---|---|---|
| 1 – Draft | Rebecca Bryant & Leigh Bate | Jenni Bate | Client review | 16 February 2024 |
| 2 – Draft | Jenni Bate & Leigh Bate | Jenni Bate | Client review | 10 June 2025 |
| 3 – Draft | Jenni Bate | Ausgrid | RAP review | 2 July 2025 |
| 4 – Final | Jenni Bate | RAPs | Issue of final | 11 August 2025 |

## EXECUTIVE SUMMARY

Apex Archaeology have been engaged to assist Ausgrid to undertake an Aboriginal Cultural Heritage Assessment (ACHA) for a proposed infrastructure project to upgrade and augment the sub-transmission electricity system within the Hunter Valley, NSW. The project includes areas within Cessnock, Singleton and Muswellbrook Local Government Areas (LGAs).

This ACHA has been prepared in accordance with the *Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW* (April 2011) (the Guide); the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW, April 2010) (the ACHCRs), and the *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales* (September 2010) (the Code of Practice). It details the results of the archaeological assessment completed in accordance with the Code of Practice and the consultation undertaken with the Aboriginal community in accordance with the ACHCRs.

There are two components of the proposed works, being the construction of sub-transmission lines, and the construction of substations.

1) Sub-transmission line upgrades, requiring pole replacements, access tracks, vegetation management; for approximately 85km:
    - 80km between Kurri Kurri and Lake Liddell.
    - 4km between Ausgrid's Muswellbrook STS and Transgrid's Muswellbrook BSP.

    This will also require an additional 18km of underground fibre installed between Lake Liddell and Transgrid Muswellbrook BSP.

2) Construction of two new 132kV switching stations, which will require vegetation clearing and bulk earth works:
    - the first located at Muswellbrook, on the southern side of Ausgrid's existing Muswellbrook Sub-transmission Station and will be known as Sandy Creek STSS.
    - the second located on the northern side of Lake Liddell and will be known as Antiene STSS.

A total of 24 Aboriginal people and organisations registered an interest in being consulted for the project. The following list comprises the registered Aboriginal parties (RAPs) for the project:

- A1 Indigenous Services
- Amanada Hickey Cultural Services
- Aleira French Trading
- AGA Services
- Cacatua
- Corroboree Aboriginal Corporation
- DFTV Enterprises
- Didge Ngunawal Clan
- Gomeroy Consultants
- Gunjeewong

- Hunter Valley Aboriginal Corporation
- Kevin Duncan
- Konnango Aboriginal Cultural Heritage Services
- Long Gully Cultural Services
- Gomeroi People (Native Title Claim Group)
- Thomas Dahlstrom
- Ungooroo Aboriginal Corporation
- Wallangan
- Upper Hunter Wonnarua Council
- Wanaruah Nation Aboriginal Corporation
- Wanaruah Local Aboriginal Land Council
- Widescope
- Yarrawalk
- Yinarr Cultural Services

Consultation with the RAPs has been conducted in accordance with the ACHCRs.

A comprehensive survey of the study area corridor was undertaken as part of the assessment, with a number of previously registered and new sites identified within the study area. Areas of archaeological sensitivity were also identified and where impact could not be avoided to these locations, test excavations were completed.

Of the nine zones of archaeological sensitivity identified during the survey, the following six areas were not able to be avoided by the proposed works and as such further investigation in the form of test excavation was required to understand the nature and extent of this potential:

- Moderate Zone of Potential (AMBS 2009) – Zone 1
- Black Creek – Zone 2
- Jerrys Plain – Zone 3
- Knodlers Lane 1 – Zone 4
- Knodlers Lane 2 – Zone 5
- Camberwell (MD-AS-01) – Zone 6

However, at Knodlers Lane 2 (Zone 5), nine flaked glass artefacts were identified on the ground surface, interspersed with silcrete and IMSTC stone artefacts. This area is considered to have subsurface archaeological potential, but as flaked glass items (ie evidence of contact archaeology) were identified, test excavation under the Code of Practice cannot be undertaken at this site. Any work at this site will require an AHIP and management recommendations for this site are outlined in this report. As such, no test excavation was undertaken at this location as part of the test excavation program.

In total, 116 test pits were excavated across the study area. This included 104 initial test pits, with four of these expanded to 1m$^2$ due to artefact concentrations, making a total of 116 50 x 50 cm test pits excavated across the five zones of sensitivity.

Test pits ranged in depth from approximately 10cm through to 80cm depending on their locations. In general, soils comprised clayish silts with some gravels. Ironstone inclusions were common and soils were often quite compact. Disturbance was noted

at some locations but was generally confined to the ground surface with more intact deposits located at depth.

Artefacts identified during the test excavation program were formed from a range of raw materials, including silcrete, Indurated Mudstone/Silicified Tuff (IMST), quartz and Fine Grained Silicious (FGS). Silcrete was the predominant material with 109 (44%) of the 249 items recovered being silcrete.

IMST was the next common material type with 59 items (24%) followed by chalcedony with 48 items (19%). 23 items of vein quartz were identified and smaller quantities of chert, FS, quartz, and quartzite formed the remainder of the assemblage.

Five complete backed or retouched items were identified within the assemblage with a further four broken backed or retouched items recorded. Three of the backed artefacts were recovered from a single test pit at Pole 1, which was considered to demonstrate multiple lithic activities were carried out at this location. Most items were noted to be flakes, broken flakes or flaked pieces.

Some stratification of the assemblage was evident, with higher counts noted within spit 3 (10-15cm depth).

Within Zone 1, chalcedony and associated crystalline vein quartz was noted to be present, but many of the items identified did not demonstrate evidence of cultural modification. However, some of these items were identified during previous assessments (AMBS 2015) as having use-wear or residue consistent with use in functional tasks, despite their lack of clear diagnostic features. The current study identified 122 pieced of chalcedony and vein quartz from test pits Zone 1; none of which had clear or definitive diagnostic features consistent with cultural modification. However, given previous analyses and results, these have the potential for at least some of them to have been utilised in some form, and thus were considered as part of the assemblage.

Overall, the test excavation is considered to provide evidence of discontinuous use of the landscape by Aboriginal people, with some areas used to a greater degree than others.

Based on the results of the survey and test excavation, as well as an understanding of previous archaeological work within the area, a range of management and mitigation measures were developed. Additionally, an Aboriginal Cultural Heritage Management Plan (ACHMP) has been prepared to guide the management of Aboriginal cultural heritage sites within the study area before, during, and after completion of the proposed works for the Hunter REZ project. This includes surface collection, salvage excavations, avoidance and protection of sites, and unmitigated impact where appropriate.

In summary, the assessment found the following:

- The Hunter Renewable Energy Zone (REZ) passes through a rich cultural landscape with many previously and newly recorded sites present.
- 80 previously recorded AHIMS sites are located within a 50m radius of the proposed sub-transmission line route.
- 26 newly identified sites were located within a 50m radius of the proposed sub-transmission line route.
- Nine zones of archaeological sensitivity were identified, associated with previously or newly identified sites.
- The proposed works have potential to avoid many of the identified sites, either through ensuring pole placement avoids known site locations, or the use of alternative construction methods which reduce or avoid impact.
- Test excavations confirmed the presence of artefact concentrations at all locations tested.
- Generally, a relatively low density artefact deposit was identified across the landscape, although in some areas higher densities were identified.
- Mitigation and management recommendations have been made for the sites that cannot be avoided by the proposed works.

Therefore, the following recommendations have been made.

### Recommendation 1: Application for AHIP Necessary

Application for an Aboriginal Heritage Impact Permit (AHIP) to permit impact to the sites that cannot be avoided is required, and should include permission to undertake surface collection of any artefacts on the ground surface within the proposed impact areas, with the items reburied on site. Additionally, the AHIP should permit salvage excavation at four locations in accordance with the attached salvage strategy.

If the surface artefacts cannot be relocated, the AHIP should permit unmitigated impact to the site location.

### Recommendation 2: Maintain Aboriginal Community Consultation

Consultation with the RAPs in accordance with the ACHCRs regarding the project should continue, in order to keep the RAPs informed about the management of Aboriginal cultural heritage within the study area.

Consultation undertaken for this project must be maintained at least every six months in order to maintain validity. It is the Proponent's responsibility to ensure consultation remains valid. In the event a gap of more than six months occurs between consultation events, it may be necessary to restart the consultation process to support any AHIP applications that are necessary.

### RECOMMENDATION 3: IMPLEMENTATION OF ACHMP

An Aboriginal Cultural Heritage Management Plan has been prepared to guide the management of Aboriginal sites before, during and after upgrade works have been undertaken. This includes guidance around salvage excavations, management of recovered artefacts, and management of unexpected finds during on-going maintenance works.

### RECOMMENDATION 4: STOP WORK PROVISION

Should unanticipated Aboriginal archaeological material be encountered during site works, all work must cease in the vicinity of the find and an archaeologist contacted to make an assessment of the find and to advise on the course of action to be taken. Further archaeological assessment and Aboriginal community consultation may be required prior to the recommencement of works. Any objects confirmed to be Aboriginal in origin must be reported to Heritage NSW.

In the unlikely event that suspected human remains are identified during construction works, all activity in the vicinity of the find must cease immediately and the find protected from harm or damage. The NSW Police and the Coroner's Office must be notified immediately. If the finds are confirmed to be human and of Aboriginal origin, further assessment by an archaeologist experienced in the assessment of human remains and consultation with both Heritage NSW and the RAPs for the project would be required.

This recommendation should be included in any Construction Environmental Management Plan (CEMP) developed for the site.

### RECOMMENDATION 5: DEVELOPMENT BOUNDARIES

The proposed development works must be contained within the assessed boundaries for this project. If there is any alteration to the boundaries of the proposed development to include areas not assessed as part of this archaeological investigation, further investigation of those areas may be necessary to assist in appropriately managing Aboriginal objects and places which may be present.

### RECOMMENDATION 6: REPORTING

One digital copy of this report should be forwarded to Heritage NSW to support the required AHIP application for the project, along with required supporting documentation.

One digital copy of this report should be forwarded to Heritage NSW for inclusion on the Aboriginal Heritage Information Management System (AHIMS).

One copy of this report should be forwarded to each of the registered Aboriginal stakeholders for the project.

## GLOSSARY OF TERMS

| | |
|---|---|
| **Aboriginal Object** | An object relating to the Aboriginal habitation of NSW (as defined in the NPW Act), which may comprise a deposit, object or material evidence, including Aboriginal human remains. |
| **ACHA** | Aboriginal Cultural Heritage Assessment |
| **ACHAR** | Aboriginal Cultural Heritage Assessment Report |
| **ACHCRs** | *Aboriginal cultural heritage consultation requirements for proponents 2010* |
| **AHIMS** | Aboriginal Heritage Information Management System maintained by Heritage NSW, detailing known and registered Aboriginal archaeological sites within NSW |
| **AHIP** | Aboriginal Heritage Impact Permit |
| **Alignment/corridor** | The area within which the proposed upgrades to the HCC REZ will be undertaken |
| **ASIRF** | Aboriginal Site Impact Recording Form |
| **Code of Practice** | The DECCW September 2010 *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales* |
| **Consultation** | Aboriginal community consultation in accordance with the DECCW April 2010 *Aboriginal cultural heritage consultation requirements for proponents 2010.* |
| **DA** | Development Application |
| **DCCEEW** | Department of Climate Change, Energy, the Environment and Water |
| **DECCW** | The Department of Environment, Climate Change and Water (now Heritage NSW) |
| **Disturbed Land** | If land has been subject to previous human activity which has changed the land's surface and are clear and observable, then that land is considered to be disturbed |
| **GIS** | Geographical Information Systems |
| **GSV** | Ground Surface Visibility |
| **the Guide** | *Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW* |
| **Harm** | To destroy, deface or damage an Aboriginal object; to move an object from land on which it is situated, or to cause or permit an object to be harmed |
| **HCC REZ** | Hunter-Central Coast Renewable Energy Zone |
| **Heritage NSW** | Heritage NSW within the Department of Climate Change, Energy, the Environment and Water; responsible for overseeing heritage matters within NSW |
| **ka** | Kiloannus, a unit of time equating to 1,000 years |
| **LALC** | Local Aboriginal Land Council |
| **LGA** | Local Government Area |
| **NPW Act** | NSW *National Parks and Wildlife Act* 1974 |
| **NPWS** | National Parks and Wildlife Service |
| **OEH** | The Office of Environment and Heritage (now Heritage NSW) |
| **PAD** | Potential Archaeological Deposit |
| **RAPs** | Registered Aboriginal Parties |
| **STL** | Sub-transmission line/powerline |
| **STS** | Sub-transmission substation |

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# 1.0 Introduction

Apex Archaeology have been engaged to assist Ausgrid to undertake an Aboriginal Cultural Heritage Assessment (ACHA) for a proposed infrastructure project to upgrade the existing sub-transmission electricity system within the Hunter Valley, NSW (Figure 1). The project includes areas within Cessnock, Singleton and Muswellbrook Local Government Areas (LGAs).

The proposed works for the project will be undertaken in two stages. The first stage will encompass a 132kV sub-transmission line augmentation, pole replacements, access tracks, and upgrades of sub-transmission stations (STS) covering a distance of approximately 60 km from Singleton to Kurri Kurri (Hebdon Greta). Two fibre-optic underground cables from Singleton to Muswellbrook will also be constructed within the existing overhead powerline easements.

The second stage of the proposed works will include the construction of a new Antiene 132kV switching station comprising approximately 8 ha. This will connect with the Singleton to Kurri sub-transmission line. Additional rearrangement of the existing Upper Hunter sub-transmission network will also be necessary to connect between the new Antiene and existing facilities in Muswellbrook. All these works will require pole replacements, access track works and vegetation clearing, as well as an upgrade to Ausgrid's Muswellbrook sub-transmission substation with an extension to the existing yard.

This report has been prepared in accordance with the *Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW* (April 2011) (the Guide); the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW, April 2010) (the ACHCRs); and the *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales* (September 2010) (the Code of Practice). It details the results of the archaeological assessment completed in accordance with the Code of Practice and the consultation undertaken with the Aboriginal community in accordance with the ACHCRs.

## 1.1 Study Area

The study area is within the central lowlands of the Hunter Valley and follows a meandering corridor that extends from Kurri Kurri, approximately 30 km northeast of the city of Newcastle on the coast, to Muswellbrook in the northwest. It is approximately 20-45m wide and covers a distance of approximately 105 km (Figure 1).

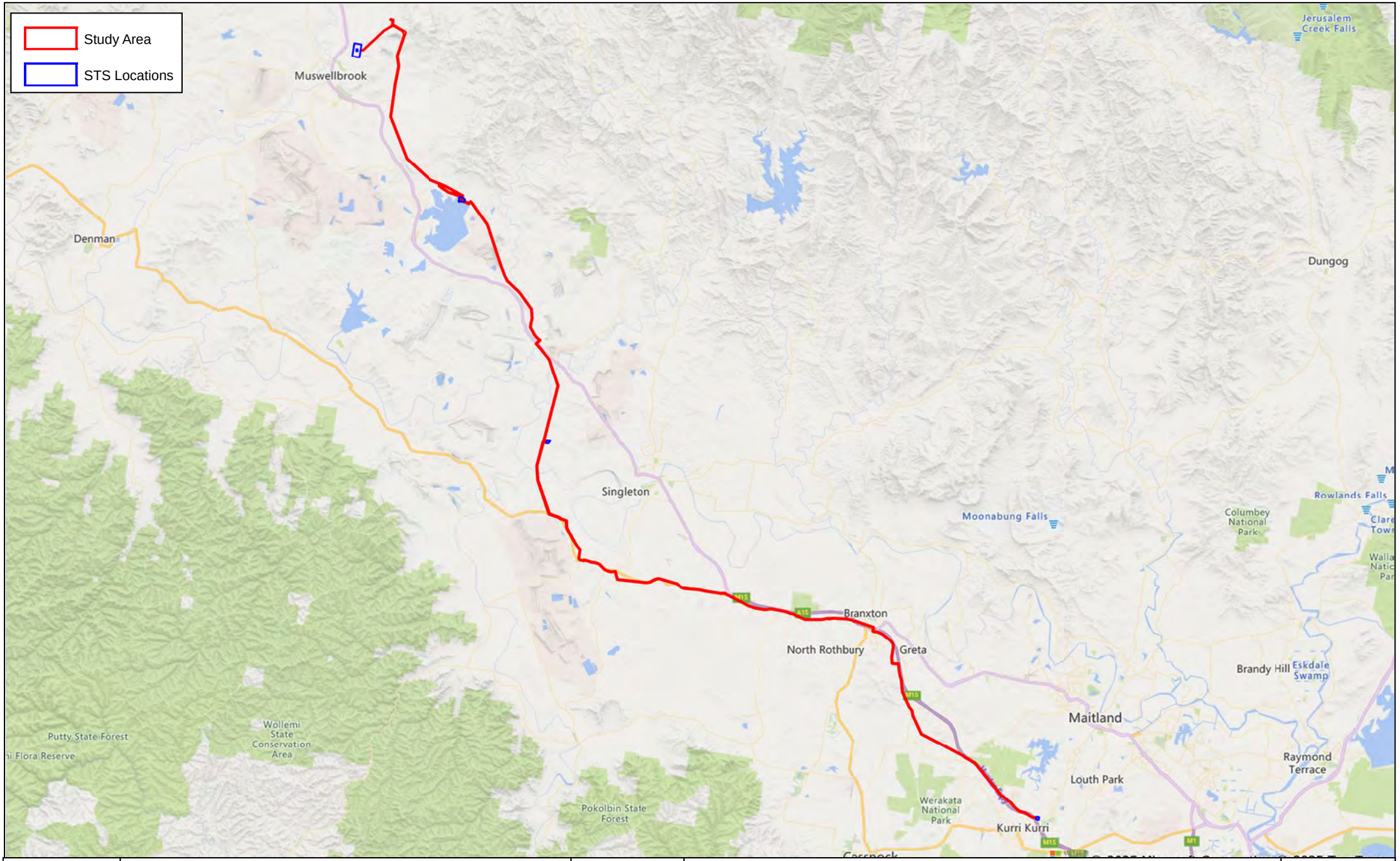
## 1.2 Project Brief

Ausgrid's proposed Hunter-Central Coast Renewable Energy Zone (HCC REZ) project declared by the NSW Minister for Energy in 2022 will deliver new renewable energy infrastructure to fulfill the increasing demand for affordable and sustainable

electricity. This will include the construction of energy generators (e.g. solar and wind), storage facilities, and high-voltage transmission lines. The REZ aims to produce cheap, clean and reliable electricity that can be efficiently stored and transmitted across the National Electricity Market (Ausgrid 2022).

The HCC REZ upgrades refer to the sub-transmission infrastructure, while the Hunter Transmission Project (HTP) is a new transmission line (lattice towers) project, to connect the Central West Orana and New England REZs with the existing 500kV transmission network at Eraring.

The determining authority in this instance is Ausgrid, who will determine a Review of Environmental Factors (REF) for the project under Part 5 of the Environmental Planning and Assessment Act.




PO Box 236
NOWRA
NEW SOUTH WALES 2541

0 16 32
kilometres

Projection:
MGA Zone 55 (GDA 94)
Base Map:
Bing Road Maps
2025
Final - Version 1

Figure 1: Study area within its regional context.

## 1.3 Objectives of the Aboriginal Cultural Heritage Assessment

The archaeological investigation was undertaken to meet the requirements of the Code of Practice and ACHCRs.

The purpose of the archaeological investigation is to understand and establish the potential harm the proposed development may have on Aboriginal cultural heritage within the study area, both tangible and intangible.

Aboriginal community consultation was undertaken for the project with the aim of:

- Identifying the Aboriginal community members who can speak for Country within which the study area is located;
- Involving the Aboriginal community in making decisions about the management of their cultural heritage;
- Identifying, assessing and recording Aboriginal heritage values within the study area;
- Preparing an assessment of the cultural heritage values in consultation with the Aboriginal community;
- Identifying the potential impact of the proposed development on the assessed cultural heritage values; and
- Developing conservation and mitigation strategies for these values, with the aim of minimising impacts to cultural heritage wherever possible.

In addition, this report provides a significance assessment of the identified Aboriginal heritage values, as defined by the registered Aboriginal stakeholders (RAPs) for the project. Aboriginal people are the primary determinants of the significance of their cultural heritage and therefore Apex Archaeology cannot make a determination on the cultural significance without the input of the RAPs.

Any development works which disturb the ground surface have the potential to impact Aboriginal archaeological deposits and therefore an assessment of whether the study area contains such deposits is required prior to the commencement of construction works. An assessment of whether the proposed development would impact these deposits (if present) is also necessary, and identification of to what extent the deposits would be impacted is also required. The degree of impact which may be allowable is determined, in part, with consideration of the level of cultural significance attributed to the cultural values of the study area, both tangible and intangible.

This assessment considers existing and newly identified sites within the study area and determination of whether these could be avoided by any further works within the study area, as well as detailing consultation with the Aboriginal community in order to determine the cultural significance of the area.

## 1.4 Project Proponent

The proponent for the project is Ausgrid and Ausgrid's Environmental Project Manager is Richard Dunnicliff.

## 1.5 Investigators and Contributors

This archaeological assessment was commissioned by Ausgrid. Apex Archaeology thanks Ausgrid's Environmental Project Manager, Richard Dunnicliff, and Local Regional Operation's Liaison, Robert Newman, for their assistance with the project. Thanks are also extended to the registered Aboriginal groups for their participation and assistance with the project, with particular thanks and appreciation to Kevin Sampson, Cacatua Culture Consultants, Les Atkinson, Wonaruah Local Aboriginal Land Council and Shai-lee Braneley, Wonnarua Nation Aboriginal Corporation for their assistance with the fieldwork.

This report has been prepared by Rebecca Bryant, Archaeologist with Apex Archaeology, Leigh Bate, Director and Archaeologist with Apex Archaeology and Jenni Bate, Director and Archaeologist with Apex Archaeology. The report was reviewed by Jenni Bate, Director and Archaeologist with Apex Archaeology. Both Jenni and Leigh have over eighteen years of archaeological consulting experience within NSW, and Rebecca has 12 years experience in archaeological research projects (inc five years in consultancy). Project team roles and qualifications are shown in Table 1.

Table 1: Project team roles and qualifications

| Name | Role | Qualifications |
|---|---|---|
| Jenni Bate | Project Manager; Report Author; Review | B.Archaeology; Grad. Dip. CHM |
| Leigh Bate | Field work, Report Author; GIS | B.Archaeology; Grad. Dip. Arch; Dip. GIS |
| Rebecca Bryant | Report Author | B.Science (Arch/Paleo); Mphil (Lithics) |
| David O'Brien | Field Inspection | B.Archaeology Prac; Masters of Arch Sci |
| Jason Barr | Archaeological Supervisor | BA (Hons 1), PhD |
| Cat Fenech | Archaeologist | BA; MA |
| Gloria Aranda-Spinazze | Archaeologist | BA; Master of Heritage Cons |
| Kevin Sampson | Aboriginal representative (Cacatua Culture Consultants) | |
| Les Atkinson | Aboriginal representative (Wonaruah Local Aboriginal Land Council) | |
| Shai-lee Braneley | Aboriginal representative (Wonnarua Nation Aboriginal Corp) | |

## 1.6 Limitations

This report relies in part on previously recorded archaeological and environmental information for the wider region. This includes information from the Aboriginal

Heritage Information Management System (AHIMS), which is acknowledged to be occasionally inaccurate, due to inaccuracies in recording methods. No independent verification of the results of external reports has been made as part of this report.

It should be noted that AHIMS results are a record only of the sites that have been previously registered with AHIMS and are not a definitive list of all Aboriginal sites within an area, as there is potential for sites to exist within areas that have not previously been subject to archaeological assessment.

A number of site cards note corresponding archaeological reports. However, a number of these reports are not available on AHIMS, or the internet. The heritage consultants or relevant organisation/s were contacted by email to request copies of these documents, however limited responses were received. As such, these documents were unable to be considered as part of this assessment. This is discussed further in Section 4.

Field investigations for this report included survey and test excavation. The results are considered to be indicative of the nature and extent of Aboriginal archaeological remains within the study area, but it should be noted that further Aboriginal objects and sites which have not been identified as part of this assessment may be present within the wider study area.

It is recognised that Aboriginal people are the primary determinants of the significance of their cultural heritage, and as such, Apex Archaeology have relied on the Aboriginal community to provide cultural knowledge regarding the site, where they are willing and able to share such knowledge. However, there may be occasions where RAPs are unwilling or unable to share cultural knowledge regarding the site and thus our assessment of significance relies on scientific assessment only.

This report assesses Aboriginal cultural heritage matters only. No assessment of historical heritage has been made as part of this ACHA.

## 1.7 Report Structure

This report addresses the requirements of the Guide, the Code of Practice and the ACHCRs. The Guide provides guidance as to what must be contained in an ACHA report. The following tables outline the requirements of both the Guide and the Code of Practice, and how they have been addressed in this report. The report has also been prepared in accordance with Requirement 11 of the Code of Practice.

Section 1 of this report outlines the study area, project brief, details of the proponent, and investigators and contributors to this report.

Section 2 outlines the statutory context and applicable legislation to Aboriginal heritage assessment and management.

Section 3 details the consultation undertaken with the Aboriginal community in accordance with the requirements of the ACHCRs and the NPW Regulation 2019.

Section 4 reviews existing knowledge, including landscape context, previous archaeological work, and provides a predictive model of Aboriginal occupation, in accordance with Requirements 2, 3 and 4 of the Code of Practice.

Section 5 provides details of the fieldwork undertaken for the project, in accordance with Requirements 5, 7, 8, 9 and 10 of the Code of Practice.

Section 6 outlines the test excavations undertaken for the project.

Section 7 details the results of the lithic analysis prepared on completion of the test excavation program.

Section 8 makes an assessment of significance for the project, in accordance with Section 3.4 of the Guide and Section 4.3 of the ACHCRs.

Section 9 details the impact assessment of the proposed works on Aboriginal cultural heritage, in accordance with Section 2.5 of the Guide.

Section 10 provides management and mitigation measures to avoid or minimise harm in accordance with Sections 2.6 and 2.7 of the Guide.

Section 11 outlines the requirements of the AHIP, and Section 12 details the recommendations made for the project.

# 2.0 Statutory Context

Heritage in Australia, including both Aboriginal and non-Aboriginal heritage, is protected and managed under several different Acts. The following section presents a summary of the applicable Acts which provide protection to cultural heritage within NSW.

## 2.1 Commonwealth Legislation

### 2.1.1 Aboriginal and Torres Strait Islander Heritage Protection Act 1984

This Act provides for the preservation and protection of injury and/or desecration of areas and objects in Australia and its waters that are of significance to Aboriginal people, in accordance with Aboriginal tradition.

Under this Act, the responsible Minister has provision to make both temporary and/or long-term declarations, in order to provide protection to areas and objects which are at threat of injury or desecration. In some instances, this Act can override State or Territory provisions, or be invoked if State or Territory provisions are not enforced. An Aboriginal or Torres Strait Islander individual or organisation must invoke the Act.

No items within the study area are listed or protected under this Act.

### 2.1.2 Environment Protection and Biodiversity Conservation Act 1999

The EPBC Act provides protection to environmental sites of national significance, including places with cultural heritage values that contribute to Australia's national identity. The Act aims to respect the role of Indigenous peoples in the conservation and ecologically sustainable use of Australia's biodiversity, and to enhance the protection and management of important natural and cultural places. Additionally, the Act is designed to promote the use of Indigenous peoples' knowledge of biodiversity with the involvement of, and in cooperation with, the owners of the knowledge.

The National Heritage List (NHL) provides a listing of natural, historic and Indigenous places of outstanding significance to the nation, while the Commonwealth Heritage List (CHL) details the Indigenous, historic and natural places owned or controlled by the Australian Government.

The Register of the National Estate (RNE) is a former statutory register that is no longer in force; however listings can still be searched. The listings on the RNE did not automatically transfer to the NHL.

Under the EPBC Act, approvals are required if any action is proposed that will have (or is likely to have) a significant impact on the National Heritage values of a National Heritage place. Therefore, actions must be referred to the Australian Government Minister for the Environment and Heritage. A decision will be made as to whether the

proposed action will have a significant impact on any matters of national significance.

A search of the Australian Heritage Database which incorporates the NHL and the CHL did not identify any Aboriginal heritage items within the study area.

### 2.1.3 Native Title Act 1993

The *Native Title Act 1993*, as amended, provides protection and recognition for Native title. Native title is recognised where the rights and interests of over land or waters where Aboriginal and Torres Strait Islander people practiced traditional laws and customs prior to the arrival of European settlers, and where these traditional laws and customs have continued to be practiced.

The National Native Title Tribunal (NNTT) was est9bolished to mediate native title claims made under this Act. Three registers are maintained by the NNTT, as follows:

- National Native Title Register
- Register of Native Title Claims
- Register of Indigenous Land Use Agreements.

Searching the NNTT registers allows identification of potential Aboriginal stakeholders who may wish to participate in consultation.

A search of all three registers on 11 November 2023 did not identify any registered Native Title claims or Native Title determinations over the study area. The closest native title claim that has been accepted for registration is the application from the Gomeroi People (NC2011/006, NSD37/2019). The eastern boundary of the native title claim is on the western side of the Hunter River and falls outside the Muswellbrook boundary of the current study area.

An updated search in June 2025 confirmed the above findings.

## 2.2 New South Wales Legislation

### 2.2.1 National Parks and Wildlife Act 1974

The *National Parks and Wildlife Act 1974* provides protection for all Aboriginal objects and places within NSW. Aboriginal objects are defined as the material evidence of the Aboriginal occupation of NSW, while Aboriginal Places are defined as areas of cultural significance to the Aboriginal community. All Aboriginal objects are protected equally under the Act, regardless of their level of significance. Aboriginal Places are gazetted if the Minister is satisfied that the location was and/or is of special significance to Aboriginal people.

Following amendments to the NPW Act in 2010, approval to impact Aboriginal cultural heritage sites is only granted under a Section 90 Aboriginal Heritage Impact

Permit (AHIP), which is granted by Heritage NSW of the Department of Climate Change, Energy, the Environment and Water.

### 2.2.2 National Parks and Wildlife Regulation 2019

Part 5, Division 2 of the *National Parks and Wildlife Regulation 2019* addresses Aboriginal objects and places in relation to the NPW Act 1974, and outlines how compliance with relevant codes of practice can be met.

Clause 58(1) outlines the defence of low impact acts or omissions to the offence of harming Aboriginal objects, which includes maintenance works on existing roads and fire trails, farming and land management work, grazing of animals, activities on land that has been disturbed that is exempt or complying development, mining exploration work, removal of vegetation (aside from Aboriginal culturally modified trees), seismic surveying or groundwater monitoring bores on disturbed ground, or environmental rehabilitation work (aside from erosion control or soil conservation works such as contour banks).

Clause 58(4) outlines the definition of 'disturbed land', as land that "has been the subject of a human activity that has changed the land's surface, being changes that remain clear and observable".

Clause 59 relates to the notification of Aboriginal objects and sites and Clause 60 relates to the requirements for the consultation process to support an AHIP application. The regulation sets out the requirements broadly in line with those outlined in the ACHCRs.

### 2.2.3 Environmental Planning & Assessment Act 1979

Under the EP&A Act, it is necessary to consider environmental impacts, including impact to cultural heritage, as part of the land use process. Local Environmental Plans (LEPs) and Development Control Plans (DCPs) are also required to be prepared by Local Government Areas (LGAs) in order to provide guidance on the applicable level of environmental assessment. LGAs are required to maintain a list of locally significant heritage items as part of their LEP.

Under the EP&A Act, Part 3 describes the planning instruments at both local and regional levels; Part 4 relates to development assessment and consent processes, and Part 5 refers to infrastructure and environmental impact assessment.

The current project will be determined under Part 5 of the EP&A Act, and Ausgrid are the determining authority. A Review of Environmental Factors (REF) will be prepared to inform the assessment process, with this report providing guidance to the REF development.

### 2.2.4 SEPP Transport and Infrastructure 2021

The State Environmental Planning Policy (Transport and Infrastructure) 2021 is relevant to the current project as it entails construction of electricity infrastructure.

Clause 2.44 of the SEPP outlines development that is permitted without consent-general, and specifically notes that development for the purpose of an electricity transmission or distribution network may be carried out by or on behalf of an electricity supply authority or public authority without consent on any land.

### 2.2.5 Cessnock LEP 2011, Singleton LEP 2013 and Muswellbrook LEP 2009

The Cessnock Local Environmental Plan (LEP) 2011, Singleton LEP 2013, and Muswellbrook LEP 2009 are the overarching planning instruments applicable to their respective LGAs under the same name. The study area is covered by the following provisions listed in the Clauses below. As these provisions are the same for all three LEPs they will not be repeated individually.

Clause 5.10 (1) (d) states that the objective of this clause is to conserve Aboriginal objects and Aboriginal places of heritage significance.

Clause 5.10(2) (e) identifies that no buildings may be erected on land within a heritage conservation area, or which contains an Aboriginal object, without first obtaining development consent. Further, Clause 5.10(2) (c) states that archaeological sites may not be disturbed or excavated without development consent. Clause 5.10(2) (d) states that an Aboriginal place of heritage significance may not be disturbed or excavated without development consent. Exceptions to the requirement for development consent are detailed by -

Clause 5.10(3) (a) and include work that is minor in nature or is for the maintenance of a heritage item, Aboriginal object, Aboriginal place, archaeological site or heritage conservation area, and would not adversely affect the heritage significance of the heritage item, Aboriginal object, Aboriginal place, archaeological site or heritage conservation area, or (b) the development is in a cemetery or burial ground and the proposed development would not cause disturbance to human remains, relics, Aboriginal objects in the form of grave goods, or to an Aboriginal place of heritage significance.

Clause 5.10(8) (a & b) requires that the effect of any development on an Aboriginal place of heritage significance must be considered, and the Aboriginal community must be notified of any proposed developments and take into consideration any responses received within 28 days after the notice was sent. This document details the notification to the registered Aboriginal community regarding the intention to develop the study area and the consultation undertaken regarding the proposed development's potential impact on Aboriginal cultural heritage in the area.

Clause 5.10(10) (d) the proposed development would not adversely affect the heritage significance of the heritage item, including its setting, or the heritage significance of the Aboriginal place of heritage significance.

There are no known items of Aboriginal heritage significance identified within the LEPs that fall within the current study area. There are items of general heritage and archaeological significance located in the wider vicinity; however none of these contain references to Aboriginal objects. Assessment of these items is outside the scope of this assessment and therefore they are not considered further in this report.

# 3.0 Aboriginal Consultation Process

This section details the Aboriginal community consultation undertaken to assist in the heritage assessment of the study area. Aboriginal consultation in accordance with the ACHCRs was undertaken by Apex Archaeology for this project.

Aboriginal community consultation is a requirement in order to make assessments of Aboriginal cultural values, as Aboriginal people are the primary determinants of the significance of their cultural heritage and therefore Apex Archaeology cannot make a determination on the cultural significance without the input of the RAPs. Aboriginal people often have a strong connection to their Country, and to their ancestors, both past and present.

Material evidence of past Aboriginal occupation of an area is a tangible link to the intangible traditions, lore, customs, beliefs and history. These intangible values provide a sense of belonging for Aboriginal people, and cultural heritage and cultural practices are kept alive through being incorporated into everyday life, which helps maintain a connection to the past and to the present. It is a vital part of the identity of Aboriginal people.

Therefore, it is important that Aboriginal people are afforded the opportunity to understand, comment on and have input into projects that may impact areas which may be culturally sensitive, or damage items of cultural significance. The process of Aboriginal community consultation provides this opportunity, and this ACHAR details the results of the consultation undertaken for this project.

## 3.1 The Consultation Process

The ACHCRs provide the process for undertaking consultation with the Aboriginal community. This process includes identification, registration, engagement and consultation with those Aboriginal people who may have cultural knowledge which is relevant to determining the cultural significance of Aboriginal objects and places which may be within the study area.

The ACHCRs detail a number of stages for consultation, as follows:

- Identification of those people who should be consulted for the project
- Inviting Aboriginal people to register their interest in being consulted for the project

- Providing information regarding the nature and scope of the project to the Aboriginal people who have registered an interest in being consulted – the registered Aboriginal parties (RAPs)
- Providing opportunities for RAPs to comment on the proposed methodology for cultural heritage consultation
- Presenting information about the potential impacts of the proposed development for the RAPs to comment on
- Providing opportunities for RAPs to comment on the cultural significance of the proposed development area
- Providing opportunities for RAPs to comment on the draft reports detailing the results of the archaeological and cultural assessments for the project

A log of all correspondence undertaken as part of the assessment must be maintained. This log is attached as Appendix A.

## 3.2 Stage 1 Consultation: Commencement

Stage 1 requires a list of Aboriginal people who may have cultural knowledge relevant to the area to be prepared from several sources of information. The first step requires enquiries to be made of certain statutory bodies regarding whether they are aware of Aboriginal people or organisations that may have an interest in the study area, and their contact details. Any Aboriginal people or organisations identified in this step must be contacted and invited to register an interest in the project. In addition, a notification must be placed in local print media requesting Aboriginal people or organisations to register their interested in the project. A list of those who register an interest must be compiled. A minimum of 14 days from the date of the letter or newspaper advertisement must be allowed for registrations of interest.

As a result of the Stage 1 activities, a list of Aboriginal people who wish to be consulted for the project is developed. These Aboriginal people become the registered Aboriginal parties – the RAPs – for the project.

Letters requesting the details of Aboriginal people who may hold cultural knowledge relevant to the study area and who may wish to be consulted for the project were sent to several statutory agencies on 06 September 2023. Copies of these letters and responses are attached in Appendix B. These Step 1 letters were sent to the following agencies:

- Cessnock City Council (CCC)
- Heritage NSW (HNSW)
- Hunter Local Land Services (HLLS)
- Mindaribba Local Aboriginal Land Council (MLALC)
- Muswellbrook Shire Council (MSC)
- Native Title Services Corp (NTSCorp)
- Office of the Registrar, *Aboriginal Land Rights Act 1983 (NSW)* (ORALRA)

- Singleton Council (SC)
- Wanaruah Local Aboriginal Land Council (WLALC)

Responses were received from Heritage NSW, CCS, SC, MSC, NTSCorp and ORALRA. Their responses are provided in Table 2 below and are available in Appendix B.

Table 2: Agencies contacted in Stage 1, and details of responses

| Parties Contacted | Date of response | Details of Response |
|---|---|---|
| Cessnock City Council | 12/09/2023 | Email received from Jessica Elliott advising council did not have a list of Aboriginal individuals and/or groups who are registered with council and wish to be consulted on heritage matters. She did advise that there is a Community Directory that has information on local Aboriginal and Torres Strait Islander services. However, these are not related to heritage matters. |
| Heritage NSW | 12/09/2023 | Email letter received from Heritage NSW with Stakeholder Lists for Cessnock, Singleton and Muswellbrook LGAs. |
| Hunter Local Land Services | No response | N/A |
| Mindaribba Local Aboriginal Land Council | No response | N/A |
| Muswellbrook Shire Council (MSC) | 13/09/2023 | Email received advising to contact Wanaruah Local Aboriginal Land Council and Hunter Valley Aboriginal Corporation. |
| Native Title Services Corp (NTSCorp) | 15/09/2023 | Email received requesting registration of the Gomeroi People Native Title Claim Group. |
| Office of the Registrar, *Aboriginal Land Rights Act 1983 (NSW* | 15/09/2023 | Emailed letter received advising to contact Nadine Russell at Worimi Conservation Lands |
| Wanaruah Local Aboriginal Land Council | 08/09/2023 | Email letter received from CEO De-anne Douglas advising WLALC would like to be registered and that they have contacted the Hunter Valley Aboriginal Corporation to advise them of the project |

An online search of the National Native Title Tribunal (NNTT) on 6th September 2023 did not identify any Native Title applications or determinations over the study area. The closest Native Title Claim applicant that has been accepted for registration is for the Gomeroi People (NC2011/006) and it is on the western side of the Hunter River. Although no portion of the land registered as part of the Native Title falls within the current study area, it is close to the boundary in the Muswellbrook portion of the study area. NTSCorp requested the Gomeroi People be registered for this project.

The Aboriginal people and organisations identified during this initial stage were contacted via letter (email if provided, or via post if no email address given) on 21 September 2023, inviting them to register an interest in the project. Registrations were accepted until 5 October 2023. This is Step 2 of Stage 1 of consultation. Copies of these letters are attached in Appendix C.

In addition, an advertisement was placed in the *Newcastle Herald* on 22 September 2023, inviting registrations of interest from people who may have cultural knowledge of the project area. A copy of the advertisement is attached in Appendix D.

A total of 24 Aboriginal people and organisations registered an interest in being consulted for the project. The following list comprises the registered Aboriginal parties (RAPs) for the project:

- A1 Indigenous Services
- Amanada Hickey Cultural Services
- Aleira French Trading
- AGA Services
- Cacatua
- Corroboree Aboriginal Corporation
- DFTV Enterprises
- Didge Ngunawal Clan
- Gomeroy Consultants
- Gunjeewong
- Hunter Valley Aboriginal Corporation
- Kevin Duncan
- Konnango Aboriginal Cultural Heritage Services
- Long Gully Cultural Services
- Gomeroi People (Native Title Claim Group)
- Thomas Dahlstrom
- Ungooroo Aboriginal Corporation
- Wallangang
- Upper Hunter Wonnarua Council
- Wanaruah Nation Aboriginal Corporation
- Wanaruah Local Aboriginal Land Council
- Widescope
- Yarra Walk
- Yinarr Cultural Services

## 3.3 Stage 2 & 3 Consultation: Presentation and Gathering of Information

During Stage 2, information about the proposed project is provided to the RAPs, including location, scale, proposed development plans, timeframes, methodologies and any other relevant details relating to the project. This information can be provided in writing or at a meeting (or both), and an opportunity for the RAPs to visit the site may also be provided.

During Stage 3, RAPs are invited to share information about the cultural significance of the study area, which can assist in the assessment of the cultural significance of the Aboriginal objects and/or places within the study area. The cultural heritage assessment informs and integrates with the scientific assessment of significance and therefore can assist in the development of mitigation and management measures for the project. A methodology detailing how this information will be gathered must

be provided to the RAPs for comment and a minimum of 28 days must be allowed for responses to be received. Any feedback must be considered and implemented as appropriate into the methodology.

Stage 2 and 3 can be undertaken concurrently. The information about the project and the methodology for seeking cultural knowledge can be provided in the same written documentation or at the same meeting.

Details of the proposed project and the proposed methodology for undertaking the cultural heritage and archaeological assessments for the project were provided to each of the RAPs on 6 October 2023. Comments were accepted until 3 November 2023. Additionally, Kevin Duncan and Corroboree Aboriginal Corporation registered late and were forward the information and methodology document on 9 and 16 of October respectively. Responses were received from:

- A1 Indigenous Services
- Amanda Hicky Cultural Services
- Konanggo Aboriginal Cultural Heritage Services
- Long Gully Cultural Services
- Wonnarua Nation Aboriginal Corporation

Wonnarua Nation Aboriginal Corporation thanked Apex Archaeology for the information and all the other responses expressed support of the methodology. No amendments were requested by any of the RAPs. The RAP responses are attached in Appendix E and are detailed in Table 3.

Table 3: RAP responses to Information and Methodology document

| RAP | RAP Response | Apex Archaeology Response |
|---|---|---|
| Long Gully Cultural Services | "I read over everything and I'm happy with everything on here and if anyone of us raps were wanting to alter the methods I'm happy to do so." | Noted with thanks |
| A1 Indigenous Services | "I have reviewed the attachment and support the document detailing the project information and the assessment methodology. A1 would like to be involved in the upcoming fieldwork. Please feel free to publish my name, and response but not the email." | Noted with thanks Email not included in appendix |
| Amanda Hickey Cultural Services | "Thank you for the email AHCS supports and is happy with the methodology. AHCS would like to formally register an interest in all field works for this project." | Noted with thanks |
| Konanggo Aboriginal Cultural Heritage Services | "I have read the proposed methodology it is concise and informative, and I agree with the recommendations proposed." | Noted with thanks |
| Wonnarua Nation Aboriginal Corporation | "Thank you" | Noted with thanks |

No cultural information pertaining to the study area was received from any of the RAPs for the project during this stage of consultation.

## 3.4 Updated Test Excavation Methodology

On completion of the archaeological survey for the project and refinement of the route alignment, areas of archaeological sensitivity were identified that could not be entirely avoided by the proposed works. As such, an updated test excavation methodology was prepared and provided to all RAPs for their review and comment on 6 January 2025. Comments were accepted until 3 February 2025.

Comments were received from four separate RAPs and all were supportive.

Amanda Hickey from AHCS stated "AHCS support the test excavation methodology and would like to be involved in any test excavations to come up in the future" which was noted with thanks.

Carolyn Hickey from A1 Indigenous Services noted "I have reviewed the document and fully support the Information and Methodology. I would like to be included in all meetings, reports, sharing of cultural information, and fieldwork" which was noted with thanks.

Laurie Perry of Wonnaua Nation Aboriginal Corporation stated "Thank you I will get back to you, just had a quick look, looks okay to me" and subsequently advised "no further comments all good" which was noted with thanks.

Maree Waugh of Wallangan stated "Wallangan Cultural Services is happy with the methodology" which was noted with thanks.

No further comments were received from any of the other RAPs regarding the updated methodology and no amendments to the methodology were made as a result of the comments received. A copy of this methodology is attached in Appendix E, along with RAP correspondence.

## 3.5 Stage 4: Review of Draft Report

Stage 4 sees the preparation of the draft ACHAR, which details the results of the cultural heritage assessment. The draft is provided to the RAPs for their review and comment. A minimum of 28 days to comment on the ACHAR must be allowed. All comments must be addressed in the final document and the proponent's response to RAP comments must be included. Copies of any submissions received from RAPs must be included in the final ACHAR.

The draft report and ACHMP were provided to all RAPs on 3 July 2025, with comments accepted until 1 August 2025. Comments were received from Amanda Hickey Cultural Services, Robert Syron, and Wonnarua Nation Aboriginal Corporation.

AHCS advised they support the recommendations of the ACHA and ACHMP, which was noted with thanks.

WNAC requested their details be added to the ACHMP for notification under unexpected finds. Jenni Bate (JB) advised that the contact details in the ACHMP are for statutory bodies such as the LALC, police, Heritage NSW etc and RAPs would be advised of any unexpected finds confirmed to be of Aboriginal origin. WNAC also advised the following:

*I have read the reports and agree with the recommendations on the proviso we add the below paragraph in your report.*

*I would also like to talk to energy co representatives about including cultural Community Offsets as part of the ACHA and ACHMP as part of development consents for this NSW Government State Significant Project as discussed with the First Nation REZ committee, established by Energy Co.*

*This process worked well for the new Hunter Expressway which gave real community led outcomes for Aboriginal employment, Aboriginal Community led Close the gap programs, training and local Aboriginal Community led land asset projects to help build the Aboriginal Economy as part of this projects development consents based on our loss of culture and heritage.*

JB responded noting that cultural community offset development is outside the scope of the ACHA process, but that the information received from WNAC would be provided directly to Ausgrid for consideration and implementation. JB also noted that the request would be documented in the ACHA.

Bob Syron provided a significant amount of ethnohistorical information regarding the Guringay tribal boundaries and history, which was very much appreciated and has been incorporated into the report. Bob noted that there were significant discrepancies in some interpretations of the original inhabitants of the Upper Hunter area. Copies of Bob's extensive comments are attached in Appendix G.

Consultation with the Aboriginal community for this project has been conducted in accordance with the ACHCRs. A log of all correspondence is presented in Appendix A of this ACHAR. Copies of all correspondence are included in Appendix G.

## 3.6 Project Updates

In order to maintain consultation with the Aboriginal community, a number of updates were sent to the RAPs. These were sent in May 2024, November 2024, and May 2025.

Copies of these updates are attached in Appendix H of this report.

# 4.0 Aboriginal Cultural Heritage

An analysis of previous archaeological work within the study area assists in the preparation of predictive models for the area, through understanding what has been found previously. By compiling, analysing and synthesising the previous archaeological work, an indication of the nature and range of the material traces of Aboriginal land use is developed. An understanding of the context in which the archaeological assessment is vital, as development does not occur within a vacuum, but within a wider cultural landscape, and this must be considered during any archaeological assessment in order to develop appropriate mitigation and management recommendations.

This section presents information about both the physical and cultural landscape in which the study area is located, based on previous archaeological and ethnohistorical studies, to provide context and background to the existing knowledge of Aboriginal culture in the area.

## 4.1 Existing Environment

The Hunter Valley is a large coastal catchment of approximately 22,000 km$^2$ that is situated at the northern end of the geological structure referred to as the Sydney Basin (CSIRO 2021). The Hunter Valley is bound on the west by the Great Dividing Range, which has two spurs that form mountain ranges that extend east and form the northern and southern boundaries of the Hunter Valley. The northern spur comprises the Liverpool Range, Mount Royal Range and Barrington Tops, and the south is the dissected sandstone plateaux of the Southern Mountains. The study area is located between these two areas and is referred to as the Central Lowlands (Hughes 2014).

The major river systems in the Hunter Valley are the Hunter, Goulburn, Page, Williams and Patterson Rivers, with the main river flowing through the Central Lowlands comprising the Hunter River. It rises to the east of Murrurundi in the Liverpool Range and flows in a southerly direction, then east through Raymond Terrace to empty into the Pacific Ocean at Newcastle.

The whole study area has been subjected to historical disturbances to some degree. This includes the initial clearing of vegetation and the construction of transportation infrastructure through the study corridor including the Main Northern Railway, Golden Highway, and Hunter Expressway. There are a number of coal mines that are in close proximity or within sections of the study area. These include the Mount Thorley Mine, Warkworth Mine, Ashton Coal, Ravensworth Mine Complex, Liddell Coal Mine, Glendell Mine and Muswellbrook Coal Mine. Numerous types of below-ground services including water pipes, gas lines, and electrical lines also run throughout the study area.

### 4.1.1 GEOLOGY

The underlying geology was formed during the Permian period which began around 299 million years ago (mya) and concluded around 252 mya. In the section of the study area closer to the coast, around Kurri Kurri and Greta, lies the Tomago Coal Measures and Dalewood group that comprise coal, tuff, conglomerate, mudstone and sandstone. Moving further northwest along the study area corridor, the area from Branxton to Muswellbrook is dominated by the Singleton Coal Measures that include coal, shale, sandstone, conglomerate, tuff, chert, and torbanite seams. There are also patches from the Maitland Group that comprise sandstone, conglomerate, and siltstone. Although the main area of previous volcanic activity within the Hunter Valley is centred around Merriwa to the north of the study area, there are a few small basalt outcrops that are mapped as being in close proximity to the study area; for example, in the area around Jerry's Plains (New South Wales Department of Mines 1969: Branagan & Packham 2000).

### 4.1.2 SOIL LANDSCAPES

The underlying geology of the study area has contributed to the varied topography and formation of numerous soil landscapes. In general, the present-day study area comprises low undulating and rolling hills that fringe the flattish flood plain areas and narrow-to-wide terraces that border the meandering Hunter River and its tributaries. All of the soils mapped within the study area have quite a high sand content and are discussed individually in more detail in the paragraphs below.

From the southern section of the study area at Kurri Kurri to Branxton, the soil landscape maps as Neath, then from just north of Black Waterholes Creek it is dominated by the Branxton Soil landscape. Around Dillions Scrub and where the Golden Highway intercepts at the New England Highway and at the Putty Road, there are sections that fall within the Rothbury Soil landscape. The Hunter Soil landscape is at Muddies, Glennies, Ravensworth Creek and Doctors Creek, and along Bowmans Creek, Jerry's Plains near the boundary of Maison Dieu and Warkworth, and Muswellbrook. Roxburgh and Bayswater soil landscapes are also at Muswellbrook and Camberwell, and the Liddell soil landscape is mapped as being around Liddell.

**Neath Soil Landscape** comprises gently undulating rises and swamps. The topsoil comprising the A1 horizon is a dull brown loamy sand that may have orange and grey mottling. It can be up to 35 cm deep and overlies a clear change to an olive grey sandy clay. It is poorly drained and subject to severe sheet and rill erosion in cleared areas.

**Branxton Soil Landscape** covers undulating hills and rises with many small creek flats. There are numerous drainage lines that are spaced at 400 – 1,500 m intervals. The top A1 soil horizon that can be up to 20 cm deep and is a brown or dark reddish brown sandy loam that may have a sharp change to bleached dull yellow loamy sand. This overlies a bright brown light medium clay that can have yellow, or grey

and orange mottling. These soils have a moderate to low water-holding capacity and range from low to high erodibility.

**Rothbury Soil Landscape** comprises undulating and rolling hills There are four soil profiles within this soil landscape depending on the slope and drainage lines. However, overall, the A1 horizon tends to be dark brown to dull yellowish brown sandy loam soils that can be up to 30 cm deep, except on the flatter areas where they can be up to 70 cm deep. They overlay clay that can be yellowish or brown, and may have yellow mottling. The soils are subject to minor sheet erosion on the lower slopes and can be moderately well-drained.

**Hunter Soil Landscape** covers the floodplains of the Hunter River and its tributaries. The main soils are all formed in alluvium and the A1 horizon can be up to 50 cm deep in prior stream channels and on tributary flats. These include brown clays and black silty clay soils that overlay clay. The sandy alluvial sands and soils that occur on levees and flats adjacent to the present river channel are generally loose and fine, and are a brownish black colour that grade to a dark brown clay sand with rounded stones. These soils can be over 300 cm deep. The Hunter soil landscape is prone to minor stream bank erosion on the present water course with minor sheet and gully erosion. It is an aggrading landscape that has formed by sediment that has built up over time.

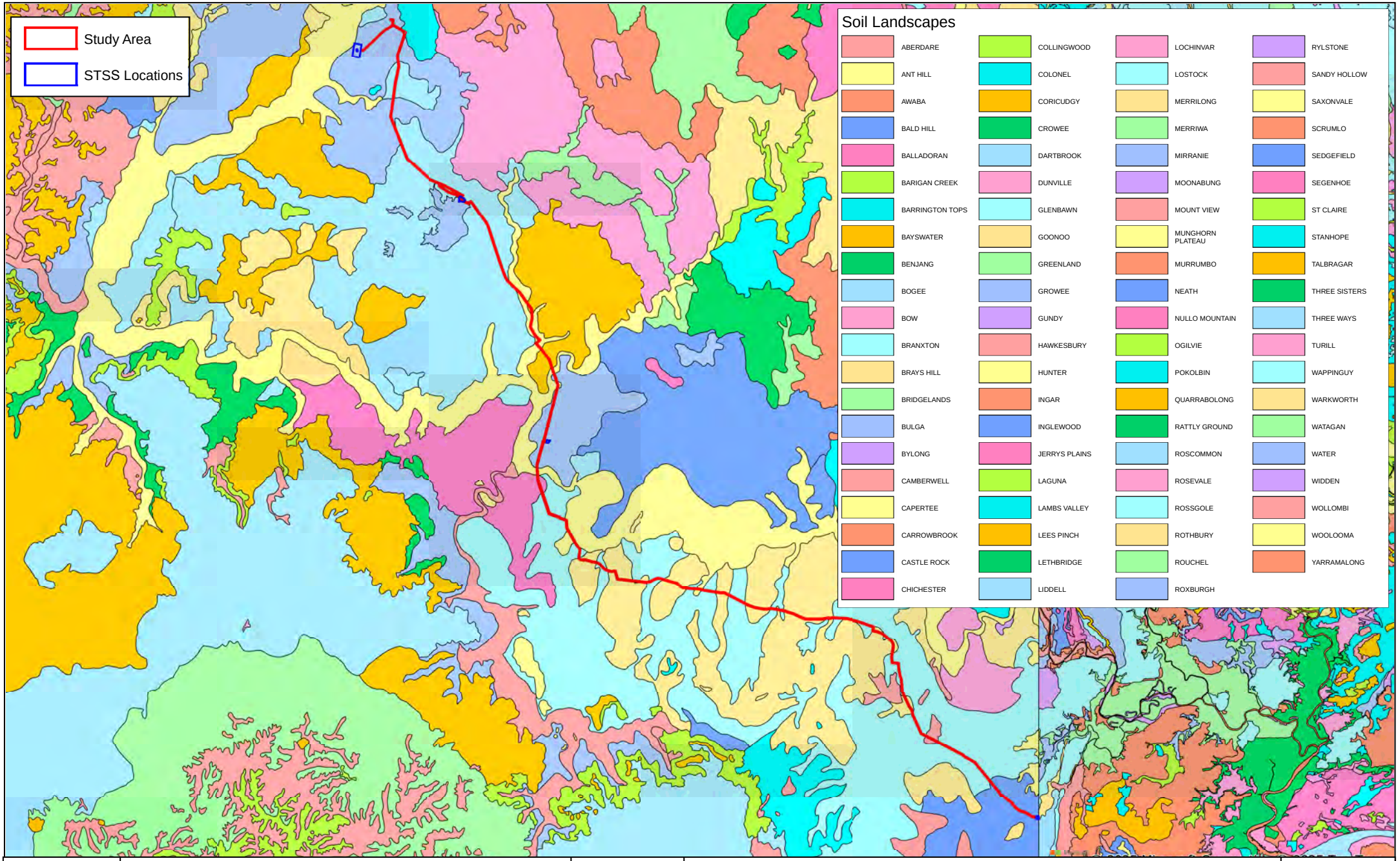
**Bayswater Soil Landscape** consists of undulating low hills and drainage lines. The A1 soils on the slopes are yellow, red/yellow and brown. They are mainly loam to clay loam and can be up to 65 cm deep that overlay clay. The alluvial soils are in the drainage lines and are brown loamy sand to sandy clay and can be over 80 cm deep over the underlying bedrock. The soils are prone to moderate sheet and gully erosion on the slopes.

**The Liddell Soil Landscape** comprises low hills and undulating hills. The A1 horizon soil profile is a loamy sand to a sandy loam and varies in colour from brown to dark brown. They are up to 20 cm deep on the upper and lower slopes, and overlie brown/orange clay. The A1 soil profile in the mid-slope areas tends to be deeper, up to 40 cm, and has a higher sand content which overlies a gradual change to dull yellowish, bright brown loam sand. Minor to severe sheet erosion is common, with some minor rill erosion, and moderate erosion in gullies and drainage lines.

An investigation of the archaeological potential of the soil profiles within the Central Lowlands conducted by Hughes (2014) found that in general the A1 horizon are likely to contain archaeological material from the Holocene period (< 10,000 years ago (ya)). It is noted that a few sand sheets, such as within the Warkworth Sand Sheet, have been found to contain older Pleistocene deposits > 23,000 to possibly ~50,000 ya. However, these sands sheets have been inaccurately mapped which makes them difficult to locate and may only be found during field work excavations.

In summary, the soil landscapes within the study area have been impacted by natural erosion that would have been compounded by the initial loss of vegetation

cover through historical and ongoing land-clearing practices. Subsequent excavation for services, transportation routes, and coal mines, would have further affected the soil profiles and resulted in the partial, or complete loss of the original topsoil within the majority of the current study area. Additionally, the Hunter River and its tributaries have a long history of flooding. Although the 1949 flood was one of the largest recorded since European settlement, there is also evidence of paleo floods that have exceeded this level of flooding during the past 4,300 years (Hughes et al 2014:35). All these man-made and natural impacts would have affected the original position of any existing archaeological material on the surface or below ground to some degree. However, there may still be intact archaeological deposits in discreet areas that have not been subjected to these impacts.




PO Box 236
NOWRA
NEW SOUTH WALES 2541

0 16 32

kilometres

Projection:
MGA Zone 55 (GDA 94)
Base Map:
Bing Road Maps
2025
Final - Version 1

Figure 2: Soil landscapes accross the study area.

### 4.1.3 HYDROLOGY

As mentioned above, the Hunter River is the main river that flows through the central lowlands. It is the closest major river to the study area and crosses through it within the suburb of Masion Dieu. The Hunter River is fed by many large and small creeks and drainage systems that criss-cross through the study area. The main creeks in the southern portion of the study area include Swamp Creek, Black Waterholes Creek, Sawyers Gully, and Bishops Creek. The central portion near Braxton includes Anvil Creek and Black Creek. A bit further north near the Singleton military area is Mudies Creek, and Glennies Creek and Bowmans Creek flow between Camberwell and Ravensworth. The northern most portion of the study area near Muswellbrook includes Muscle Creek. There are also some sections, such as those near the Kurri Kurri area, that support a swamp/wetland environment.

All these main creeks and the Hunter River would have provided access to fresh water. The stream order is determined according to the Strahler system as used by the NSW Department of Planning and Infrastructure (Figure 3). Watercourse classification ranges from first order through to fourth order (and above) with first order being the lowest, ie a minor creek or ephemeral watercourse.

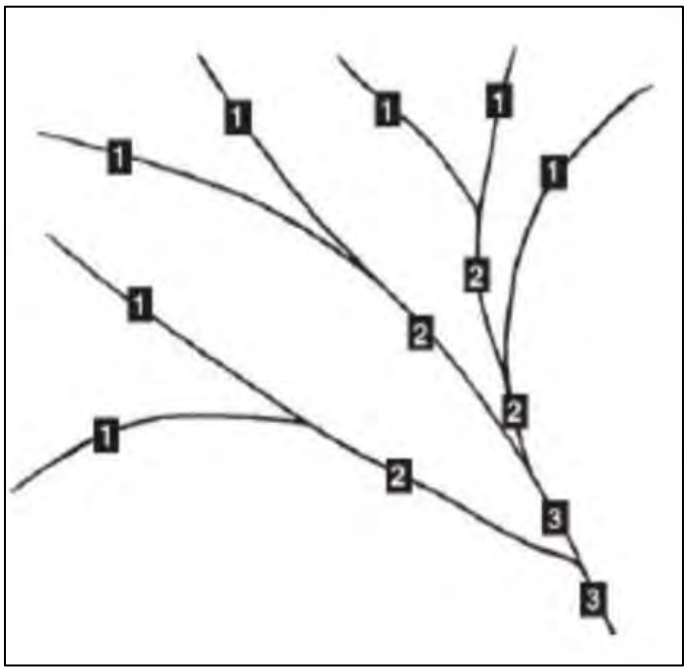



Figure 3: The Strahler system (Source: Department of Planning and Environment 2016).

### 4.1.4 FLORA AND FAUNA

The original native vegetation before the large-scale land disturbance would have comprised woodland species including many different species of Eucalyptus trees such as: *E. moluccana* (grey box), *E.tereticornis* (forest red gum), *E. dawsonii* (slaty gum), E.punctata (grey gum), E. Nubila (blue-leaved iron bark), *E. Crebra* (red ironbark), *Angophora floribunda* (rough-baked apple), Angophra. Coasta (smooth-barked apple), and *Brachychiton populneus* (kurrajong). An understorey of vegetation comprising *Xanthorrhoea*, (grass tree) *Banksia, Acacia* (wattle), and

*Macrozamia comminuis* (Burrawang) would also be present. Around the drainage lines and waterways there would have been wet shrubland species such as the *Melaleuca* (paper bark) and *Leptospermum* (tea tree), *Casuarina glauca* (swamp she-oak) and *Poa labillardierei* (tussock grass) would also have been present (Howell and Benson 2000: Terry 2003).

Early settlers commented on the well-grassed areas and the park-like appearance of the valley, so in general the Hunter Region would have provided excellent hunting grounds with plenty of kangaroos, possums, birds, lizards, snakes on the ground, and fish and shellfish in the rivers, estuaries and rock platforms of the coast (Moore 1970). However, as mentioned in the previous section, the vast majority of original vegetation within the study area would have been historically cleared for agricultural and development purposes, commencing around the early 1800s. This is perhaps most apparent along the riverbanks that are now dominated by introduced willow trees, pasture land and mono culture such as grapevines (Hughes et al 2014:35).

Many of these plants, trees and animals have been documented as resources used by Aboriginal people to fulfill dietary needs, supply raw material for tools and implements, and used for medicinal and ceremonial purposes. For example, the various Eucalypts provided wood for shields, canoes and coolamons, while the soft stringy park from the Melaleuca trees was used for bedding, and to wrap the deceased in burial practices. The gum from the wattle and grass trees was collected and mixed with ash to make a strong resin to attach stone tools to wooden handles for spears and axes. The fur from possums was sewn together using a needle made from animal bones and thread made from the sinew of animal's muscles. The highly poisonous nuts from the *Macrozamia* plant were collected and leeched of their poison through burning and water before being ground on a stone anvil to make flour (Attenbrow 2010; Brayshaw 1986; Threlkeld in Gunson 1974).

## 4.2 ETHNOHISTORY

Ethnohistorical evidence is based on the reports of colonisers and does not tend to include the Aboriginal perspective, leading to a Eurocentric view of Aboriginality. Additionally, historical records can be contradictory and incomplete regarding the exact tribal boundaries and locations of ceremonial or domiciliary activities of Aboriginal people before contact.

> *The problem associated with ethnohistoric documents include their tendency to record unusual, rather than everyday events, and their focus on religious behaviour to the exclusion of woman and children (Attenbrow 1976:34; Sullivan 1983:12.4).*

The opinions of the early explorers, anthropologists, settlers and contemporary academics regarding the geographic location of the major language groups within the Hunter Valley at the time of British contact with the Aboriginal people vary. However, an extract from a map created by David Horton (1996) for the Australian Institute of Aboriginal and Torres Strait Islander Studies depicts the current study

area as within the Wonnarua language group (Plate 1), which is similar to what was also suggested by Tindale (1974). The bordering language groups included the Geawegal to the north, the Darkinung to the south, the Worimi and Awabakal to the east, and the Wiradjuri to the west. The Kamilaroi was just to the north and shared a common border with the Wiradjuri and Geawegal.

Plate 1: Excerpt of AIATSIS Map of Aboriginal language groups (Source: Horton 1996)

Watt (2023: 42) also remarked that observations from around the contact period noted relationships between the language groups fluctuated between periods of combat and harmony. Most disputes, whether within or between languages groups, were settled by previously agreed formats. However, one common thread of conflict appears to be the forceful attitude of the Kamilaroi and their desire to expand their area of influence. For example, Robert Miller (1886:354), an Elder of the Wonnarua Language Group, noted that "wars were generally fought over the abduction of women by the Kamilaroi together with their habit of trespassing on the country of neighbouring tribes". Furthermore, Enright (1937) believed the Kamilaroi had plans to extend their territory further into the Hunter Valley. However, according to Horton (1994), this never came to fruition due to the continued expansion of settlers to the north and northwest.

However, several sources strongly suggest that the Upper Hunter region traditionally belonged to the Guringay (also Gringai) people. Due to early ethnohistorical records being documented by foreign colonialists of whom did not speak Indigenous languages; nor were they familiar with Aboriginal tribal boundaries, several

Aboriginal groups were blanketed into one language or tribal boundary. An example of this is from colonial anthropologist John Fraser who massively misconstrued the tribal boundaries of eastern NSW in his *Map of New South Wales as Occupied by the Native Tribes* (1892), labelling the area between Bulli, north of Wollongong to north of the Hastings River as 'GuriNgai' country. This group was then revived by Arthur Capell in the early 20th century who labelled the area as 'Kurringgai'. This has been widely disputed by Aboriginal communities throughout the northern Sydney, Central Coast and Hunter regions, claiming that the Awabakal mob were the only traditional inhabitants of the land between the Hunter River and the Hawkesbury River. Multiple traditional descendants claim that the traditional Guringay boundaries were north of the Hunter River, with strong affiliations to the Barrington, Gloucester, Allyn, Paterson and Williams River areas NSW, **not** the areas of the Northern Sydney Beaches or within the Central Coast of NSW.

In regard to Guringay country, two early hand drawn maps (1840s – Plate 1) and a published map by Howitt (1904 – Plate 2) display Guringay country as the Upper Hunter River area (Howitt and Fison Archive). However, at some stage in the early 20th century references to Guringay (or Gringai) on tribal maps were excluded. These maps included Davison (1938), Tindale (1940 and 1974), O'Grady et al. (1966) and Horton (1996).

In 2020, the NPWS revoked all recognition of Kurringai or Guringay country between the areas of northern Sydney and the Central Coast, as it was recognised that this was a misinterpretation of a foreign colonial anthropologist which did not represent the traditional language boundaries of eastern NSW.

Regadless of the specific identify of the original inhabitants of the area, early recorded accounts of European settlers identify some aspects of the traditional lifestyles of Aboriginal people. As noted by Peterson (1976) Aboriginal society in general was constructed of a hierarchy of social levels and groups, with fluid boundaries with the smallest group comprising a family of a man and his wife/wives, children and some grandparents, referred to as a 'clan'. The next level consists of bands, which were small groups of several families who worked together for hunting and gathering purposes (Attenbrow 2010). The third level comprised regional networks with a number of bands, and these bands generally shared a common language dialect and/or had a belief in a common ancestor. Networks would come together for specific ceremonial purposes. The highest level is described as a tribe, which is usually described as a linguistic unit with flexible territorial boundaries (Peterson 1976); although Attenbrow (2010) argues that "these groups were not tribes in the current anthropological sense of the word".

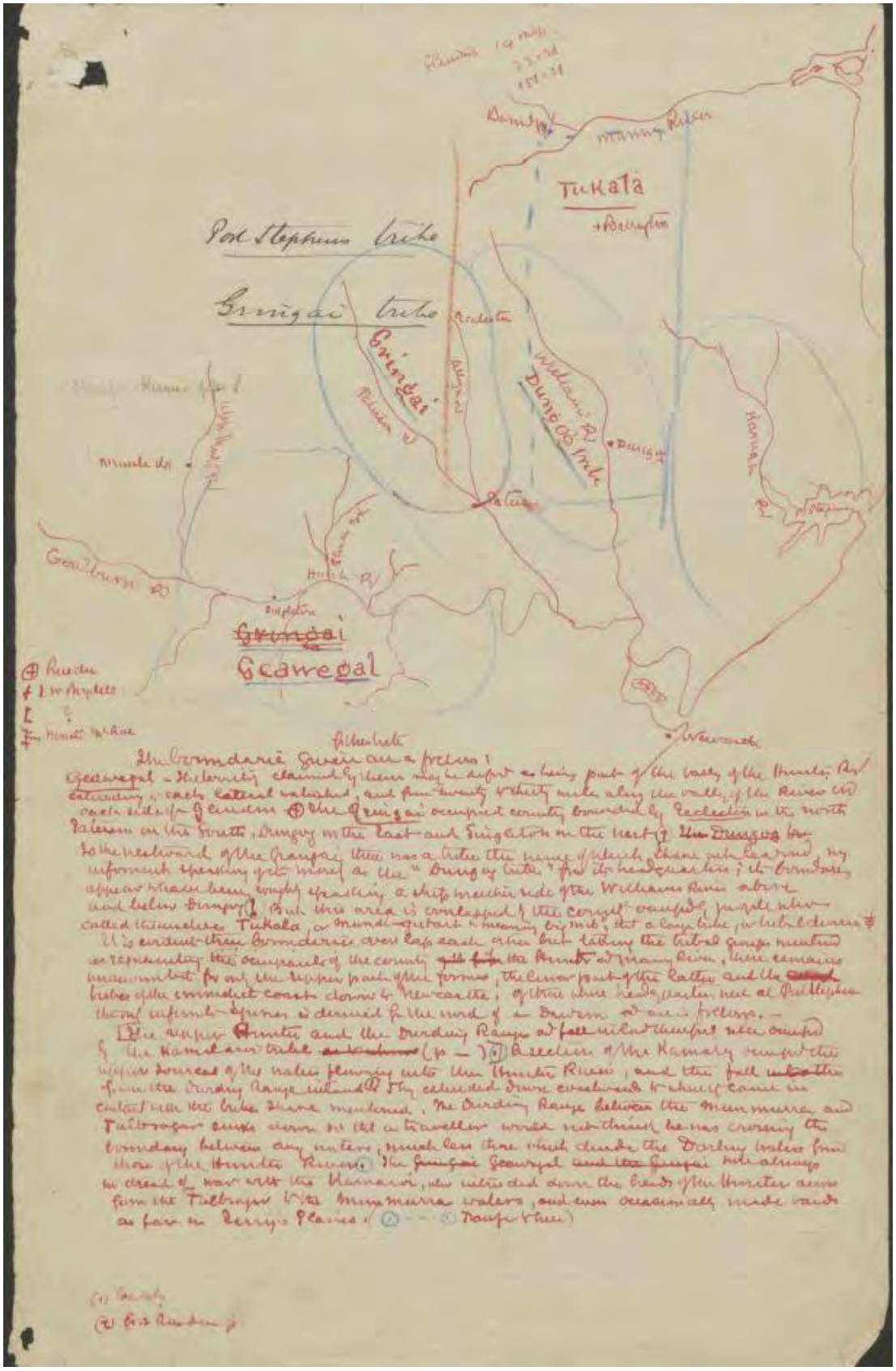



Plate 2: Hand-drawn map attributed to James Boydell (Source: Lissarrague & Syron 2024 Map 1)

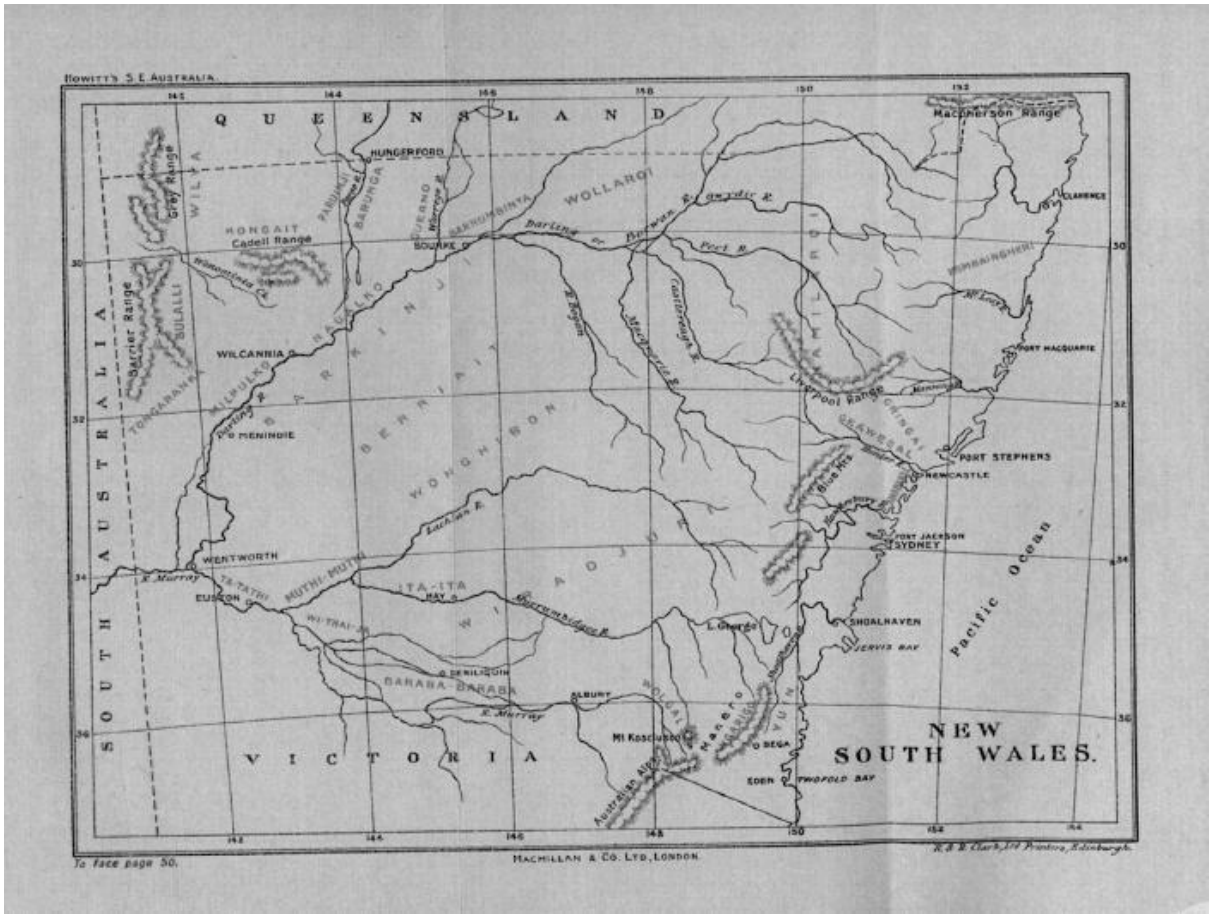



Plate 3: Howitt 1904 showing Gringai lands (Source: Lissarrague & Syron 2024 Map 3)

The traditional lifestyles of Aboriginal groups were not only shaped by complex kinship ties, obligations and social links, but also to a large extent by the environment in which they lived. Whilst coastal groups utilised marine and estuarine resources, hinterland groups relied on freshwater and terrestrial animals and plants. The central lowlands of the Hunter Valley fall within the hinterland region. Although early settlers generally described the Hunter Valley as lightly wooded, they did mention a rich abundance of plants including ones that produced nectar, seeds, and edible fruit such as berries, and one that resembled custard apple (Brayshaw 1986). Within these woods, open plains, and clustered plants along the water ways, animals such as wallabies, kangaroos, possums, birds, fresh water fish, water birds and birds such as bush turkeys were noted to have lived. These formed an integral part of the Aboriginal people's diet, as well as their social lives and belief systems.

Early observations within the Hunter Valley mention Aboriginal people setting fire to patches of land to encourage grass revegetation that the kangaroos would feed on. Setting fire was also noted as being used in preparation for ceremonial and communication signalling (Brayshaw 1986). The excavations undertaken by Moore on rockshelters at Sandy Hollow, Milbrodale and Bobadeen with the Hunter Valley in the 1970s and 1980s recovered a variety of faunal bones along with the shells of freshwater mussels which confirm the diverse range of food that was used. The

animal bones found in association with stone artefacts included Grey Kangaroo (*Macropus major*), Wallaby (*Wallabia spp.*) and Brush-tailed Possum (*Trichosurus vulpecula*), Ringtail Possum (*Pseudocherius*) and fragments of emu eggshells were also found.

Threlkeld (cited in Gunson 1974:42) observed that "Communications between distant tribes, although, perhaps hundreds of miles away, may intervene and are much more frequent than is commonly imagined by Europeans". The grasstrees (*Xanthorrhoea* sp.) for example, which provided woody material to make spears, were sent into the interior of the continent; receiving in return hanks of line, spun by hand from the fur of animals of the opossum tribe. Threlkeld also noted that groups from Lake Macquarie, on the coast went 'to the mountains with upwards of 60 spears to exchange for opossum cord made of the fur' (Threlkeld cited in Gunson1974:206). Another observation by Dawson (1830:135-136) noted that:

> *Exchanges of articles sometimes took place between the coast natives and those residing in the interior. Iron Tomahawks, sea-shells, with which they scrape and sharpen their spears, and pieces of glass, which they use for that purpose whenever they can get them, where this frequently exchanged for opossum skins, and sometimes for the belts of yarn ready manufactured, as well as a small opossum band of net-work, which they wear on their forehead when in full dress.*

Recent provenancing studies of ground-edged artefacts found in the Hunter Valley reinforce early observations of long-distance exchange systems. These items, mainly ground-edged axes, were included in trade/exchange systems that operated locally, and over enormous distances. For example, axe-making material excavated from a rock shelter in Milbrodale was dated to between 900 to 1830 BP and sourced to a basalt outcrop at Merriwa within the Hunter Valley. Other axes were sourced a little further to the south to a basalt outcrop within Peats Ridge and Popron Creek within Darkinjung Country in the Central Coast region. Axes were also matched to cobble sources found along the banks of the Nepean River; while two axes found in the Hunter Valley have been tentatively matched to geological sources in Mount William in Victoria and Mount Isa in Queensland, distances that cover over one thousand and two thousand kms respectively (Watt 2023).

### 4.2.1 Raw Materials

A wide range of raw materials were selected by Aboriginal people for flaking to create stone implements. Material types ranged from high quality to poor quality for flaking purposes, depending on the geology of the area and readily available material types. The following is a description of a range of raw material types known to have been utilised by Aboriginal people for the creation of stone artefacts.

#### Breccia

Breccias are coarse, angular volcanic fragments cemented together by a finer grained tuffaceous matrix.

### CHALCEDONY

Chalcedony is a microcrystalline, siliceous rock which is very smooth and can be glossy. Introduction of impurities can produce different coloured versions of chalcedony, including yellow/brown (referred to as carnelian), brown (sard), jasper (red/burgundy) and multicoloured agate. It flakes with a sharp edge and was a prized material type for the creation of stone artefacts in parts of Australia (Kuskie & Kamminga 2000: 186).

### CHERT

Chert is a highly siliceous sedimentary rock, formed in marine sediments and also found within nodules of limestone. Accumulation of substances such as iron oxide during the formation process often results in banded materials with strong colours. Chert is found in the Illawarra Coal Measures and also as pebbles and colluvial gravels. It flakes with durable, sharp edges and can range in colour from cream to red to brown and grey.

### PETRIFIED WOOD

Petrified wood is formed following burial of dead wood by sediment and the original wood being replaced by silica. Petrified wood is a type of chert and is a brown and grey banded rock and fractures irregularly along the original grain.

### QUARTZ

Pure quartz is formed of silicon dioxide, and has a glossy texture and is translucent. Introduction of traces of minerals can lead to colouration of the quartz, such as pink, grey or yellow. The crystalline nature of quartz allows for minute vacuoles to fill with gas or liquid, giving the material a milky appearance.

Often quartz exhibits internal flaws which can affect the flaking quality of the material, meaning that in general it is a low-quality flaking material (Kuskie & Kamminga 2000: 186). However, quartz is an abundant and widely available material type and therefore is one of the most common raw materials used for artefact manufacture in Australia. Flaking of quartz can produce small, very sharp flakes which can be used for activities such as cutting plant materials, butchering and skinning.

### QUARTZITE

Formed from sandstone, quartzite is a metamorphic stone high in silica that has been heated or had silica infiltrate the voids found between the sand grains. Quartzite ranges in colour from grey to yellow and brown.

### SILCRETE

Silcrete is a siliceous material formed by the cementing of quartz clasts with a matrix. These clasts may be very fine grained to quite large. It ranges in colour from grey to white, brown, red or yellow. Silcrete flakes with sharp edges and is quite durable, making silcrete suitable for use in heavy duty woodworking activities and also for spear barbs (Kuskie & Kamminga 2000:184).

### TUFF/INDURATED MUDSTONE

There is some disagreement relating to the identification of lithic materials as tuff or indurated mudstone. The material is a finely textured, very hard yellow/orange/reddish-brown or grey rock. Kuskie and Kamminga (2000: 6, 180) describe that identification of lithic materials followed the classification developed by Hughes (1984), with indurated mudstone described as a common stone material in the area. However, Kuskie and Kamminga's analysis, which included x-ray diffraction, identified that lithics identified as 'indurated mudstone' was actually rhyolitic tuff, with significant differences in mineral composition and fracture mechanics between the stone types. They define mudstone as rocks formed from more than 50% clay and silt with very fine grain sizes and then hardened.

The lithification of these mudstones results in shale (Kuskie & Kamminga 2000: 181) and thus 'indurated mudstone', in the opinion of Kuskie and Kamminga, do not produce stones with the properties required for lithic manufacture. Tuff, however, forms from the tiny ash particles that are also released during volcanic explosions. When it cools it hardens into a fine-grained rock.

In 2011, Hughes, Hiscock and Watchman undertook an assessment of the different types of stones to determine whether tuff or indurated mudstone is the most appropriate terminology for describing this lithic material. The authors undertook thin section studies of a number of rocks and determined that the term 'indurated mudstone' is appropriate, with an acknowledgment that some of this material may have been volcanic in origin. They also acknowledge that precise interpretation of the differences between material types is difficult without detailed petrological examination, and suggest that artefacts produced on this material are labelled as 'IMT' or 'indurated mudstone/tuff'.

### BASALT

Basalt, which is commonly referred to as 'blue metal', is solidified lava that was produced by now extinct volcanoes and diatremes that are spread-out within the Sydney Basin. If the lava cools quickly it results in fine-grained basalt that is easily flaked or ground to make tools, implements or weapons.

Basalt would have been either collected from the primary deposits formed during the eruption, which would require pieces to be broken off (quarried) or it was collected in cobble-form from a creek bed or shoreline. Cobbles are referred to as secondary sources as they are formed from pieces of rock that have been dislodged from their primary source and end up in creeks and/or river systems (Petrequin 2016; Attenbrow et al. 2017). The flow of water moves them around and smooths them into water-rolled cobbles that can be transported considerable distance from the original source. Basalt was often used to make axes which were either flaked into the desired shape from quarried stone, or from cobbles which quite often only required only one end to be ground into a sharp working edge.

Basalt cobbles can be found along the banks of rivers, and in bedrock quarries within the Hunter Region. Recent research undertaken by the Australian Museum and University of New England using portable XRF technology demonstrated that a number of stone axes held at the Australian Museum from the Hunter Valley area have been traced to these sources (Attenbrow et al. 2017).

### 4.2.2 PROCUREMENT

Assemblage characteristics are related to and dependent on the distance of the knapping site from raw materials for artefact manufacture, and different material types were better suited for certain tasks than other material types. Considerations such as social or territorial limitations or restrictions on access to raw material sources, movement of groups across the landscape and knowledge of source locations can influence the procurement behaviour of Aboriginal people. Raw materials may also have been used for trade or special exchange between different tribes.

### 4.2.3 MANUFACTURE

A range of methodologies were used in the manufacture of stone artefacts and tools, through the reduction of a stone source. Stone may have been sourced from river gravels, rock outcrops, or opportunistic cobble selection. Hiscock (1988:36-40) suggests artefact manufacture comprises six stages, as follows:

1. The initial reduction of a selected stone material may have occurred at the initial source location, or once the stone had been transported to the site.
2. The initial reduction phase produced large flakes which were relatively thick and contained high percentages of cortex. Generally the blows were struck by direct percussion and would often take advantage of prominent natural ridges in the source material.
3. Some of these initial flakes would be selected for further reduction. Generally only larger flakes with a weight greater than 13-15 grams would be selected for further flaking activities.
4. Beginning of 'tranchet reduction', whereby the ventral surface of a larger flake was struck to remove smaller flakes from the dorsal surface, with this retouch applied to the lateral margins to create potential platforms, and to the distal and proximal ends to create ridges and remove any unwanted mass. These steps were alternated during further reduction of the flake.
5. Flakes were selected for further working in the form of backing.
6. Suitable flakes such as microblades were retouched along a thick margin opposite the chord to create a backed blade.

Hiscock (1986) proposed that working of stone materials followed a production line style of working, with initial reduction of cores to produce large flakes, followed by heat treatment of suitable flakes before the commencement of tranchet reduction. These steps did not necessarily have to occur at the same physical location, but instead may have been undertaken as the opportunity presented.

Although probably less common than the process of flaking stone to modify it, the grinding technique was used within the Sydney Basin. This has been documented by early settlers particularly in the manufacture of axe heads where the end of a cobble was ground to achieve a working edge (Corkill 2005).

## 4.3 Land Use History

### 4.3.1 Indigenous Occupation

When Aboriginal occupation of Australia is likely to have first commenced, around 60,000 years ago (Mulvaney and Kamminga 1999; Bowdler *et al* 2003; Attenbrow 2010), sea levels were around 30-35m lower than present levels, and this further decreased to up to 130m lower than present sea levels (Attenbrow 2010). Sea levels stabilised around 7-6,500 years ago, and as a result many older coastal sites would have been inundated with increasing sea levels. It is possible that areas that are now considered "coastal" would once have limited resources available to Aboriginal people, and as such would have been less likely to have been occupied or used for repeated habitation sites.

Archaeological work at the Madjedbebe site in Arnhem Land in the Northern Territory revealed evidence confidently dated to the period before 45-46 kiloannum (ka – thousand years ago) and possibly up to 50-55 ka (Clarkson et al 2015). In NSW, there is strong evidence available to support Aboriginal occupation of the Cumberland Plain region in the Pleistocene period (approximately 40 ka) and possibly earlier. Work in Cranebrook Terrace was dated to 41,700 years BCE by Stockton and Holland (1974), and a site in Parramatta within deep sandy deposits was dated to 25-30 ka (JMcDCHM 2005). Kohen's 1984 assessment of Shaws Creek in the Blue Mountain foothills yielded ages of 13 ka, while Loggers Shelter at Mangrove Creek was dated to 11 ka by Attenbrow (1987). Deeply stratified occupation deposits at Pitt Town were dated to 39ka (Apex Archaeology 2018). These ages are obtained from both radiocarbon and optically stimulated luminescence (OSL) dating.

Although the Hunter Valley does not appear to contain the deep stratified sand-body units like those along the Nepean River, a number of sites in the Hunter Valley have been dated to the Pleistocene period. Koettig (1987, as cited in Williams et al., 2014) recovered 49 artefacts associated with a hearth (Aboriginal fire place) dated to 40–37 ka adjacent to a tributary of the Hunter River. Baker (1994) dated the basal cultural level of a site on Moffats Swamp Dune on the Tomago Coastal Plain, near Raymond Terrace, to approximately 15,000 years. A rock shelter in Bobadeen on the Goulburn River was excavated by Moore (1970:48) and was found to have evidence of occupation dating to approximately 5,000 years ago. However, the majority of dated Aboriginal archaeological sites in the Hunter Valley tend to be less than 10,000 years of age, and more in the range of less than 5,000 years. Kuskie and Kamminga (2000:15) have suggested that this paucity of Pleistocene sites in the Hunter and Lower Hunter may be due to several factors including that burial of older deposits have not been detected, the impact of post-depositional processes confusing or

damaging evidence, and/or the removal of deposits during periods of severe erosion.

As discussed in the previous two sections, at the time of contact the traditional owners of the Hunter Valley would have had access to a wide-range of natural resources that they had used for thousands of years. These resources combined with environmental factors would have influenced the way Aboriginal people moved around the landscape, where they camped, where they hunted, where they collected food, and where they conducted ceremonial gatherings. This changed dramatically at the onset of European intrusion and settlement in the Hunter Valley. As noted by Dungog magistrate, E.M. McKinlay in 1845:

> *Ordinary means of subsistence had diminished on account of the brushes having been cleared,* [in] *which animals and vegetables formerly abounded, and were easily obtained* (McKinlay 1845:969).

Observations made by David Dunlop, another magistrate, in Wollombi, also noted that:

> *The kangaroo has entirely disappeared; the wallaby, black swan, wild duck, wonga-wonga* [type of pigeon], *bronze pigeon and pheasant are daily decreasing* (Dunlop 1845:972).

As pointed out by Watt (2023:25) this scarcity of resources most probably would have forced Aboriginal people to new locations in search of food, possibly encroaching on the country of other Language Groups and disrupting exchange patterns and social networks.

### 4.3.2 Post Contact Occupation

In 1791, three years after the establishment of the first European settlement at Sydney Cove, nine convicts and two children escaped by fishing boat from the Sydney Colony. The escape had been organised by convict William Bryant and was diarised by one of the escapees, James Martin. According to Martin, the party left Sydney around the 28th March and within two days reached a small inlet approximately 222 km north of Sydney and just south of Newcastle. There they found a "Quantity of fine Burn Coal…they apperanance of they land appears more better here than at Sidney Cove here we got averse Quantity of fish which were of a great Refresment to us + we call it fortunate Creek" (Causer 2017 – presented verbatim). They also had their first encounter with the Aboriginal people of the area to whom they gave some "Cloaths [sic] & other articles and they went away very much satisfied" (Causer 2017). The party eventually made it to Timor, and Vice-Admiral William Bligh, who was in Timor in 1792, learned of their journey. Bligh reproduced the following quote by Bryant in Bligh's own journal:

> *Walking along shore towards the entrance of the Creek we found several large pieces of Coal – seeing so many pieces we thought it was not unlikely to find a Mine, and searching about a little, we found a place where we*

> *picked up with an Axe as good Coals as any in England— took some to the fire and they burned exceedingly well* (Causer 2017:25).

According to Collins (1802), Lieutenant Shortland pursued another group of escaped convicts up the coast six years later in 1797. During Shortland's expedition he discovered coal at the mouth of a large river, which he named the Hunter River. In 1801 the Hunter Valley was reserved in the public interest for the control of the coal and timber resources. At the same time a penal settlement was established on the Hunter River at Newcastle, and for the next twenty years the penal colony was at the forefront of the European expansion throughout the Hunter Valley. According to the University of Newcastle (2024), with the exception of a few officials, soldiers and their families, the local population was predominately male convicts. They worked in coal mining, lime-burning, timber-cutting and public works programs.

In 1821 Lachlan Macquarie in his last year as Governor of NSW noted the "Extensive plains of rich and fertile lands being found at no great distance along the three principal sources of the River Hunter", and strongly recommended the area be opened up to free settlers. In 1823 Governor Thomas Brisbane abandoned the penal settlement at Newcastle and moved the convicts to Port Macquarie. The land was opened up to free settlement and the largest land grant, except under special order, was not to exceed 9,600 acres. As the Hunter River was the main channel for communication and transportation the lands bordering it were occupied first (Nadew 1933:3).

In 1824 the Australian Agricultural Company was formed, and in 1828 the company was given the monopoly on coal mining in NSW. The company operated mines from Newcastle on the coast and westwards through the Hunter Valley. Before the monopoly agreement was terminated in 1847, a number of other individuals commenced operating mines, including Reverend Lancelot Threlkeld. Threlkeld was interested in the welfare of Aboriginal people and also published important landmark studies of their language (Gunson 2023). Today the Hunter comprises 41 coal mines owned by 11 producers that are spread over more than 450 km (Australian Mining Review 2023). The main areas where coal mines are close to, or within the current study area, are around Ravensworth, and the Mount Thorley mine between Jerry Plains and Putty Road.

The coal mining industry was also the catalyst for the development of rail transportation and the establishment of towns and their associated infrastructure such as electricity lines. In 1857 the 'Main North Railway' line was constructed through the Hunter, including sections within the current study area at Branxton and south of Singleton. Electricity and fibre optic lines have also been constructed along the entire length of the study area from Kurri Kurri to Muswellbrook.

Over the following years, numerous roads were constructed and linked to create modern-day highways. In 1928 the 'Golden Highway' connecting Dubbo to Newcastle was gazetted, and in 1933 a series of roads known as the 'Great Northern Highway'

was renamed the 'New England Highway'. Both these highways impact the current study area just south of Singleton, and the New England Highway impacts the study area around Ravensworth. However, the main transport construction that has impacted a large portion of the current study area is the Hunter Expressway, that was previously known as the 'F3 to Branxton link' or 'Kurri Kurri Corridor'. It was completed in 2014 and mostly runs parallel to the current study corridor from Kurri Kurri to just north of Branxton where it merges into the New England Highway.

In summary, the post contact occupation of the Hunter Valley occurred relatively rapidly after the initial colonisation of Sydney in 1788. The establishment of a penal colony and coal industry in the early 1800s, followed by clearing of nearly all the original vegetation for agricultural and wood procurement, significantly impacted the land and some of the original waterways within the Hunter Valley. The subsequent construction of transportation infrastructure and subsurface services for water, electricity, fibre optic communication lines, and larger mines would have required moderate to very deep excavations that have significantly modified the natural landscape.

## 4.4 Archaeological Context

Previous archaeological assessments assist in understanding the archaeological context of the area and in forming predictions for the location of Aboriginal cultural material within a landscape. This includes searching the AHIMS database for previously registered sites and a review of previously completed archaeological assessments.

### 4.4.1 AHIMS Results

A series of extensive searches of the Aboriginal Heritage Information and Management System (AHIMS) database was undertaken on the 24th of October 2023. The searches centred along the middle and both sides of the study corridor from Kurri Kurri to Muswellbrook. The searches covered a distance of approximately 95 km and crossed through the Cessnock, Singleton and Muswellbrook LGAs. A total of 1,167 registered AHIMS sites were identified. All of these except for four are listed as 'open sites', meaning they are in areas that are in open and exposed areas. Four are listed as 'closed sites', meaning they are in rock shelters. These sites are shown on Figure 4, which demonstrates the rich nature of archaeological evidence present within and around the sub-transmission line route. Further mapping below depicts the sites and their names in relation to the study area.

For the site status of these registered AHIMS sites, 146 are listed as 'destroyed', 22 are listed as 'partially destroyed', and four are listed as 'not a site'. The remaining 994 are considered valid. However, as discussed below, some of the 'valid' sites have been destroyed through archaeological salvage excavations but their status has not been updated on the AHIMS register. There are also three sites that are listed as restricted. Copies of the searches are attached as Appendix G.

Sites are recorded with one or more of a set of twenty-two site features specified by AHIMS. For the 1,167 sites in the search area, a total of 1,353 instances of nine separate site features have been recorded (Table 4), with a number of sites recorded with multiple features. The site feature most recorded is 'artefact'. There are 1,120 instances of 'artefact', which could be either an isolated stone artefact, or a stone artefact scatter. The second most common site is potential archaeological deposit (PAD), of which there are 211. There are also recordings of rarer sites including seven instances of 'grinding grooves', four instances of 'Aboriginal resource and gathering', and four 'Art (pigment or engraving)', three 'modified trees (carved or scarred)', two 'Aboriginal and dreaming', one 'conflict site', and one 'quarry' site.

There are only two registered grinding groove sites recorded as being close to the area of proposed works. Grinding groove sites are considered to be rare within the regional context. They are described as follows on the site cards:

- AHIMS #37-3-0809 contains three sites (SA8/10, SA8/12, SA8/14). SA8/10 comprises two (potential) grinding grooves located in a small exposure of sandstone on the slopes above the Glennies Creek terrace. Surface visibility was restricted by heavy grass cover. The grooves measured 120 mm x 15 mm which suggest that they were not utilised for grinding the larger axe pre-forms such as those recorded during this survey. The sandstone outcrop was a small floater exposed within a cleared pasture area. The exposure was located approximately 2 m from an unformed vehicle track. The grooves were not deep and may have resulted from a single event. SA8/12 was described as an artefact scatter comprising 8 mudstone, 2 silcrete, 1 quartz with moderate potential for sub-surface deposit. SA8/14 was described as a stone artefact scatter comprising 1 mudstone and 2 silcrete.
- AHIMS #37-6-2015 comprises a slab of sandstone with a slight uniform depression, suggesting it may have been used as a grinding slab. The dimensions of the depression were 38 x 28 cm and had a depth of 4.5 cm. It is unclear whether this slab was portable, as it is embedded in the surrounding soil profile. Artefacts were concentrated at more than 1 artefact per $1m^2$. The artefacts comprised five pink and grey silcrete flakes, four quartz flakes, and two chert flakes.

Table 4. Site features recorded for the 1167 registered sites within the AHIMS search for the study area

| Site Feature | No. of instances | % of total |
|---|---|---|
| Artefact | 1120 | 83 |
| Potential Archaeological Deposit (PAD) | 211 | 16 |
| Grinding Grooves | 7 | <1 |
| Aboriginal Resource and Gathering | 4 | <1 |
| Art (pigment or engraving) | 4 | <1 |
| Modified Tree (carved or scarred) | 3 | <1 |
| Aboriginal Ceremony and Dreaming | 2 | <1 |

| | | |
|---|---|---|
| Quarry | 1 | <1 |
| **Total** | **1353** | **100** |

There are 140 AHIMS sites registered as being within approximately 50 m of the proposed sub-transmission line route/fibre optic cable upgrade route. If the relevant archaeological reports were able to be obtained, they were discussed in more detail in Section 4.5. As with the results for the wider search area, the majority of these sites (134) were listed in the extensive reports as 'artefact'. Twelve of the artefact sites also included areas of PAD, and there was one individual PAD site. There were also two recorded 'grinding groove' sites, and one recorded 'art' site. The site cards were obtained for all 140 sites and their respective archaeological reports were obtained (where possible) to confirm their site status, mapped location and any other relevant details prior to field work.

Of the 140 sites, a total of five have their site status listed as 'destroyed', and two are listed as 'deleted' (Table 5). Upon further investigations of the reports associated with these sites, an additional 28 of the sites currently registered as 'valid' have been destroyed. Twenty-five of these were detailed in Umwelt (2005, 2019) as being destroyed through archaeological salvage excavations, and one was in conjunction with Kuskie and O'Driscoll (2013). See Table 6.

Table 5: Previously destroyed or deleted sites as per AHIMS

| Site ID | Site Name | AHIMS status |
|---|---|---|
| 37-6-0614 | Bowmans Creek 2 | Destroyed |
| 37-6-1151 | LID 35 | Destroyed |
| 37-6-1160 | LIDEE - IF1 duplicate of 37-3-1163 and 37-3-1164 | Destroyed |
| 37-6-1162 | LIDEE - OS1 duplicate of 37-3-1165 and 37-3-1159 | Deleted |
| 37-6-1164 | LIDEE IF 1 duplicate of 37-3-1160 and 37-3-1163 | Deleted |
| 37-6-0454 | LID1 | Destroyed |
| 37-6-0456 | SP2 | Destroyed |
| 37-6-2156 | Branxton Rail 8 | Destroyed |
| 37-6-2160 | Branxton Rail 12 | Destroyed |

Table 6. Sites currently listed as valid on AHIMS within close proximity to the proposed works and likely actual status

| Site ID | Site Name | Likely actual status | Report details |
|---|---|---|---|
| 37-6-1341 | Black Waterholes Creek RTA 1 IF | Destroyed (Already Salvaged) | Umwelt 2010 ACHPM for Hunter Expressway Appendix 4 |
| 37-6-1342 | Black Waterholes Creek RTA 2 IF | Destroyed (Already Salvaged) | Umwelt 2010 ACHPM for Hunter Expressway Appendix 4 |
| 37-6-1343 | Black Waterholes Creek RTA 3 IF | Destroyed (Already Salvaged) | Umwelt 2010 ACHPM for Hunter Expressway Appendix 4 |
| 37-6-1344 | Black Waterholes Creek RTA 4 IF | Destroyed (Already Salvaged) | Umwelt 2010 ACHPM for Hunter Expressway Appendix 4 |
| 37-6-1355 | Swamp Creek RTA 3 | Destroyed (Already Salvaged) | Umwelt 2010 ACHPM for Hunter Expressway Appendix 4 |

| Site ID | Site Name | Likely actual status | Report details |
|---|---|---|---|
| 37-6-1358 | Swamp Creek RTA 6 IF | Destroyed (Already Salvaged) | Umwelt 2010 ACHPM for Hunter Expressway Appendix 4 |
| 37-6-1360 | Swamp Creek RTA 8 IF | Destroyed (Already Salvaged) | Umwelt 2010 ACHPM for Hunter Expressway Appendix 4 |
| 37-6-1363 | PAD11 Black Waterholes Creek | Destroyed (Already Salvaged) | Umwelt 2010 ACHPM for Hunter Expressway Appendix 4 |
| 37-6-1364 | Sawyers Gully RTA 11 (formerly PAD12 Sawyers Gully) | Destroyed (Already Salvaged) | Umwelt 2010 ACHPM for Hunter Expressway Appendix 4 |
| 37-6-1346 | Sawyers Gully RTA 2 IF | Destroyed (Already Salvaged) | Umwelt 2010 ACHPM for Hunter Expressway Appendix 4 |
| 37-6-1308 | Anvil Creek RTA 6 | Destroyed (Already Salvaged) | Umwelt 2010 ACHPM for Hunter Expressway Appendix 4 |
| 37-6-1309 | Anvil Creek RTA 7 | Destroyed (Already Salvaged) | Umwelt 2010 ACHPM for Hunter Expressway Appendix 4 |
| 37-6-1316 | Anvil Creek RTA 14IF | Destroyed (Already Salvaged) | Umwelt 2010 ACHPM for Hunter Expressway Appendix 4 |
| 37-6-1317 | Anvil Creek RTA 15 | Destroyed (Already Salvaged) | Umwelt 2010 ACHPM for Hunter Expressway Appendix 4 |
| 37-6-1319 | Anvil Creek RTA 17 | Destroyed (Already Salvaged) | Umwelt 2010 ACHPM for Hunter Expressway Appendix 4 |
| 37-6-1320 | Anvil Creek RTA 18 IF | Destroyed (Already Salvaged) | Umwelt 2005 review of constraints report state site has been salvaged 'No further Salvage required' |
| 37-6-1321 | Anvil Creek RTA 19 | Destroyed (Already Salvaged) | Umwelt 2005 review of constraints report state site has been salvaged 'No further Salvage required' |
| 37-6-1328 | Anvil Creek RTA 25 | Destroyed (Already Salvaged) | Umwelt 2010 ACHPM for Hunter Expressway Appendix 4 |
| 37-6-1329 | Anvil Creek RTA 26 | Destroyed (Already Salvaged) | Umwelt 2010 ACHPM for Hunter Expressway Appendix 4 |
| 37-6-1312 | Anvil Creek RTA 10 | Destroyed (Already Salvaged) | Umwelt 2005 review of constraints report state site has been salvaged 'No further Salvage required' |
| 37-6-1313 | Anvil Creek RTA 11 IF | Destroyed (Already Salvaged) | Umwelt 2005 review of constraints report state site has been salvaged 'No further Salvage required' |
| 37-6-1315 | Anvil Creek RTA 13IF | Destroyed (Already Salvaged) | Umwelt 2010 ACHPM for Hunter Expressway Appendix 4 |
| 37-6-1322 | Anvil Creek RTA 20 IF | Destroyed (Already Salvaged) | Umwelt 2010 ACHPM for Hunter Expressway Appendix 4 |
| 37-6-1323 | Anvil Creek RTA 21 | Destroyed (Already Salvaged) | Umwelt 2005 review of constraints report state site has been salvaged 'No further Salvage required' |
| 37-6-1324 | Anvil Creek RTA 22 | Destroyed (Already Salvaged) | Umwelt 2005 review of constraints report state site has |

| Site ID | Site Name | Likely actual status | Report details |
|---|---|---|---|
| | | | been salvaged 'No further Salvage required' |
| 37-6-2151 | Branxton Rail 3 | Destroyed (Already Salvaged) | Kuskie and O'Driscoll 2013 Maitland to Minimbah AHIP. As per p.37 of report. |
| 37-6-2159 | Branxton Rail 11 | Destroyed | Destroyed as per 2010 Aboriginal Site Impact Recording Form completed by Peter Kuskie from SE Archaeology attached to site card. |
| 37-6-2269 | Maitland to Minimbah X3 | Destroyed | Already salvaged according to site card that state in the comments it was recorded and salvaged on /11/2009 by Caroline Ingram from SE Archaeology. |

## 4.5 Valid sites in the Study Area

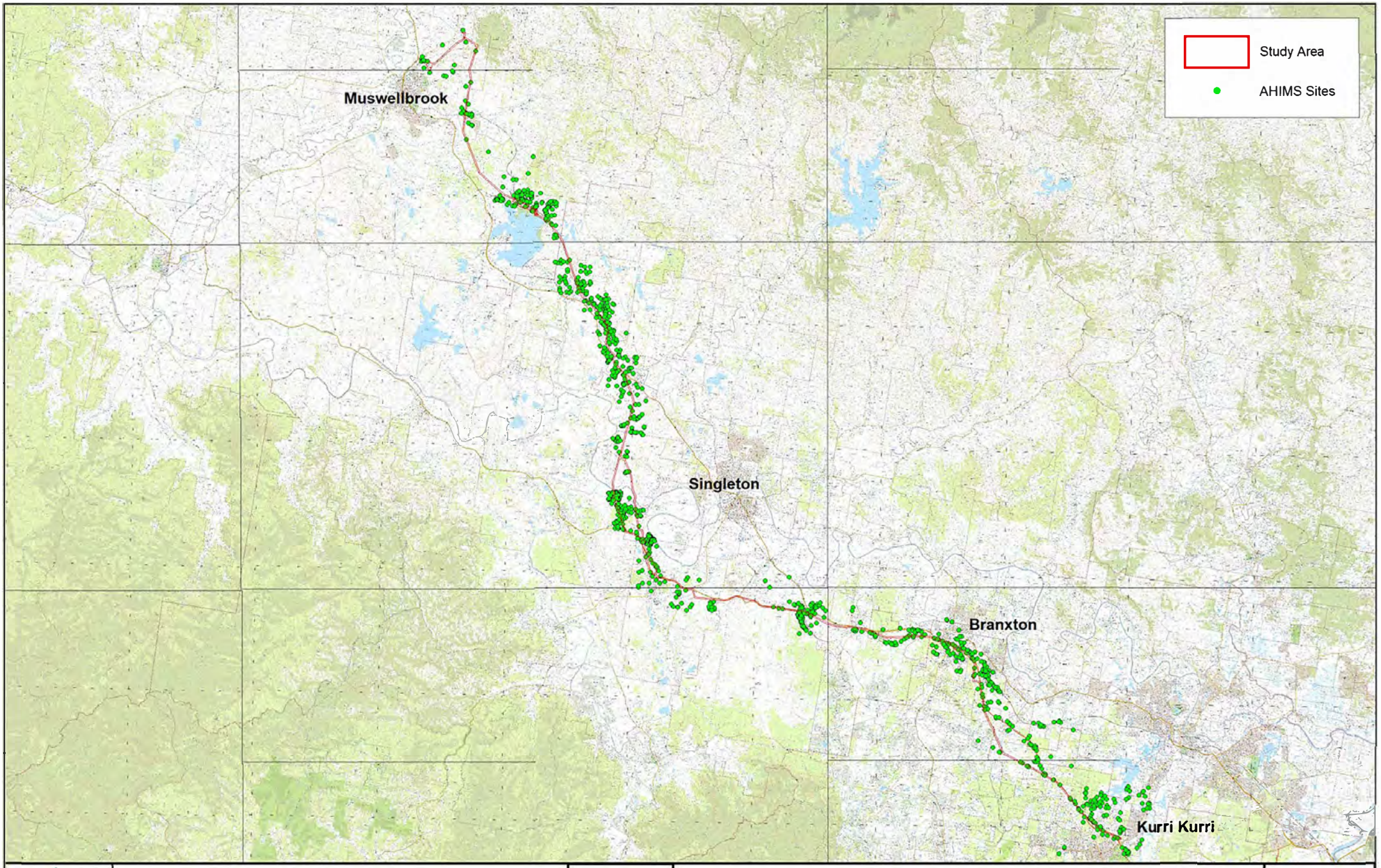
Following refinement of the study area alignment, the following 80 sites are considered valid and are located within the study area corridor:

Table 7: Valid sites within study area corridor

| Site ID | Site Name | Site Type |
|---|---|---|
| 37-2-0098 | Black Hill Muscle Creek | Artefact Scatter |
| 37-2-0543 | Telecom site 3 | Isolated find |
| 37-2-1455 | NH2 | Artefact Scatter |
| 37-2-1841 | MWOS3 | Artefact Scatter |
| 37-2-1845 | MW-IF-1 | Isolated Find |
| 37-2-2213 | AN3 | Artefact Scatter |
| 37-2-2214 | AN4 | Artefact Scatter |
| 37-2-2215 | AN5 | Artefact Scatter |
| 37-2-2216 | AN6 | Artefact Scatter |
| 37-2-2217 | AN7 | Artefact Scatter |
| 37-2-2218 | AN8 | Artefact Scatter |
| 37-3-0192 | Telecom site 4; | Isolated find |
| 37-3-0193/37-3-0462 | Telecom site 5; Davies Site 5 | Artefact scatter |
| 37-3-0500/37-3-0006 | Camberwell Bowman's Creek/ASH4 Waterhole Site | Artefact scatter |
| 37-3-0537 | Ashton High Ridge Workshop site (EWA 86) | Artefact scatter/PAD |
| 37-3-0539 | Ashton Glennies Flats site 1 | Artefact scatter |
| 37-3-0711 | SP2 (Liddell Mine) | Artefact scatter |
| 37-3-0767 | Bowmans Ck 12 | Artefact scatter |
| 37-3-0772 | Bowmans Ck 16 | Rock engraving |
| 37-3-0809 | SA8/10, SA8/12, SA8/14 | Artefact scatter/ Grinding grooves |
| 37-3-0810 | SA1/8-SA1/11, SA4/2, SA11/1-SA11/6 | Artefact scatter/PAD |
| 37-3-1198 | MOCO OS-10 | Artefact scatter |

| Site ID | Site Name | Site Type |
|---|---|---|
| 37-3-1502 | Bowmans Creek 6 | Artefact scatter |
| 37-3-1518 | Glendell North IF18 | Isolated find/PAD |
| 37-3-1529 | Glendell North IF7 | Isolated find |
| 37-3-1555 | Glendell North OS10 | Artefact scatter |
| 37-5-0179 | NW 1; | Artefact scatter |
| 37-6-0020 | Mt Thorley; | Artefact scatter |
| 37-6-0677 | Wark-1 | Artefact scatter/PAD |
| 37-6-1439 | JP 12 | Artefact scatter/PAD |
| 37-6-1442 | JP 21 | Artefact scatter |
| 37-6-1644 | Swamp Creek Catchment 5 | Artefact scatter/PAD |
| 37-6-1645 | Swamp Creek Catchment 4 | Artefact scatter/PAD |
| 37-6-2007 | KR04 | Isolated find |
| 37-6-2009 | KR06 | Artefact scatter |
| 37-6-2010 | KR07 | Artefact scatter |
| 37-6-2011 | KR08 | Artefact scatter |
| 37-6-2012 | KR08a | Artefact scatter |
| 37-6-2013 | KR09 | Artefact scatter |
| 37-6-2014 | KR10 | Artefact scatter/PAD |
| 37-6-2015 | KR11 | Grinding groove |
| 37-6-2016 | KR12 | Artefact scatter/PAD |
| 37-6-2017 | KR13 | Artefact scatter/PAD |
| 37-6-2064 | KR59 | Artefact scatter |
| 37-6-2066 | KR61 | Artefact scatter |
| 37-6-2067 | KR62 | Artefact scatter |
| 37-6-2151 | Branxton Rail 3 | Artefact scatter |
| 37-6-2269 | Maitland to Minimbah X3 | Artefact scatter |
| 37-6-2935 | KR63 | Artefact scatter |
| 37-6-3077 | MTW-503 | Isolated find |
| 37-6-3078 | MTW-502 | Isolated find |
| 37-6-3081 | MTW-499 | Isolated find |
| 37-6-3100 | MTW-470 | Isolated find |
| 37-6-3101 | MTW-469 | Isolated find |
| 37-6-3103 | MTW-467 | Artefact scatter |
| 37-6-3156 | MTW-481 | Isolated find |
| 37-6-3157 | MTW-480 | Isolated find |
| 37-6-3158 | MTW-479 | Isolated find |
| 37-6-3159 | MTW-478 | Isolated find |
| 37-6-3436 | HVO-1293 | Artefact scatter |
| 37-6-3437 | HVO-1294 | Isolated find |
| 37-6-3438 | HVO-1295 | Isolated find |
| 37-6-3439 | HVO-1296 | Artefact scatter/PAD |
| 37-6-3440 | HVO-1297 | Artefact scatter |
| 37-6-3441 | HVO-1298 | Artefact scatter |
| 37-6-3443 | HVO-1300 | Artefact scatter |
| 37-6-3453 | HVO-1310 | Isolated find |
| 37-6-3492 | HVO-1350 | Isolated find (axe) |
| 37-6-3835 | Mudies Creek Artefact 01 | Artefact scatter/ contact site |
| 37-6-3875 | NEH IF 01 | Isolated find |
| 37-6-3914 | NBR/NEH/GH/1 | Artefact scatter |

| Site ID | Site Name | Site Type |
|---|---|---|
| 37-6-3966 | Mudies Creek Potential Archaeological Deposit | Artefact scatter/PAD |
| 37-6-4020 | 2010-HVOSE-12 | Artefact scatter |
| 37-6-4022 | 2010-HVOSE-14 | Artefact scatter |
| 37-6-4038 | 2010-HVOSE-16 | Artefact scatter |
| 37-6-4045 | HVO-1421 | Isolated find |
| 37-6-4071 | HVO-1425 | Isolated find |
| 37-6-4073 | HVO-1422 | Artefact scatter |
| 37-6-4249 | Mudies Creek Artefact 02 | Artefact scatter |
| 37-6-4305 | MD028 | Isolated find |




PO Box 236
NOWRA
NEW SOUTH WALES 2541

0 16 32
kilometres

Projection:
MGA Zone 56 (GDA 94)
Base Map:
Topographic Maps
Spatial Srvices
Image Date: 2022
Final - Version 1

Figure 4: AHIMS sites across the study area.

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## 4.6 Literature Review

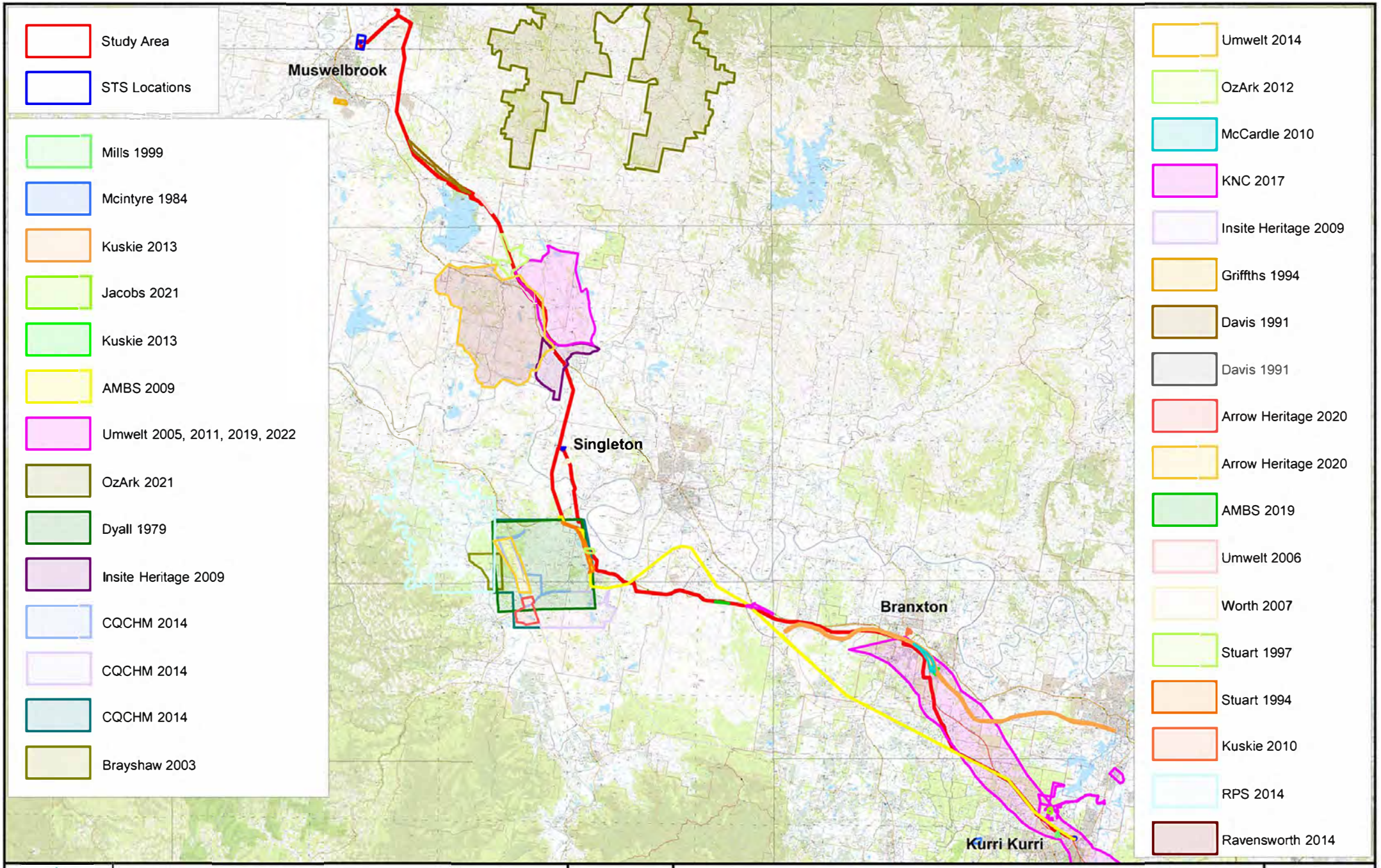
The archaeological work previously completed within the wider region is summarised here. Numerous archaeological assessments have been previously completed across the surrounding areas, including a range of academic assessments, resource management studies and development impact assessments. All of these assist in informing the archaeological assessment of sites within the region.

A number of previous archaeological assessments have been undertaken in the immediate vicinity and within the current study area. An analysis of previous archaeological work within the study area and surrounds assists in the preparation of predictive models for the area, through understanding what has been found previously. By compiling, analysing and synthesising the previous archaeological work, an indication of the nature and range of the material traces of previous Aboriginal land use is developed. Land use did not occur within a vacuum, but within a wider cultural landscape, and this must be considered during any archaeological assessment in order to develop appropriate mitigation and management recommendations.

A number of previous archaeological assessments have been undertaken within the study area and surrounds. These investigations were initially undertaken for research projects in the 1940s and the 1970s, then from this time on, in response to development of the area. This included the creation or extension of current mining operations, railway and highway transportation corridors, subsurface excavations for services including water, sewage, communication and electricity, and to a lesser degree, residential development. These assessments are summarised in the following two sections.

As mentioned in Section 1.6, reports that were referred to in the site cards for registered Aboriginal sites concentrated within the suburbs of Gouldsville and Warkworth and fall within the current study area were recorded by Scarp Archaeology and Arrow Heritage Solutions. Scarp and Arrow were both contacted by email on the 3rd November 2023 to request copies of relevant reports, as the reports were not available from AHIMS or online. Michael Slack from Scarp replied the following day to advise that the primary report is copyrighted and rights held with Coal Australia[1] and the various Local Aboriginal Land Councils. The Wanaruah LALC responsible for that area was subsequently contacted on the 21st November 2023 and to date, no response has been received. Joel Deacon from Arrow Heritage responded on the 13th November and advised that Scarp Archaeology never furnished HVO/Coal & Allied with a report for the surveys they conducted. Joel added that Arrow Heritage was asked to register the sites with AHIMS on behalf of HVO/Coal

[1] It is unclear who 'Coal Australia' is, as HVO Coal & Allied Australia was owned by Rio Tinto and sold to Yancoal in 2017. Yancoal was contacted by phone and advised they had not heard of Coal Australia.

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Projection:
MGA Zone 56 (GDA 94)
Base Map:
NSW Topographic Maps
Spatial Services
Image Date: 2022
Final - Version 1

Figure 5: Map of relevant previous assessments in proximity to the study area.

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& Allied, who are now owned by Yancoal. As such, these reports have not been considered as part of this assessment.

The report for the Kelleher Nightingale Consultancy's archaeological excavation in relation to the upgrading of the New England Highway between Belford and the Golden Highway was also requested from Transport NSW. Although a number of heritage reports were provided for this area, the Kelleher Nightingale one is still pending.

### 4.6.1 Relevant Heritage Assessments

#### McCarthy 1943

In 1941 Fred McCarthy from the Australian Museum investigated a workshop and camp-site at Gowrie that had been discovered by F.A Davison. The two men spent a week collecting artefacts which totalled 2,451 specimens. These were all found on a terrace, approximately 61 m above the Hunter River and adjacent alluvial flats. They were embedded in the top 15 cm of fine silt that overlayed coarse gritty clay. At the base of the terrace was a thick layer of water-worn pebbles. The implements were noted to be particularly abundant on a tongue of land enclosed by a bend in the river at Gowrie and their occurrence was traced for about 16 km and was considered to be probably longer.

A vast array of tools/implements were found including scraper, burins, geometric microliths, and backed blades – particularly Bondi points. There were also a large variety of cores. The predominant material that was used to make these were chert of all shades of colour from cream to red, grey being scarce. Other materials commonly used were jasper, quartzite, porphyry, and conglomerate. Igneous rocks were found to occur among the river gravels at the base of the terrace.

A number of glass artefacts were also found that varied in size from .05 cm to 1cm in thickness and up to 10 cm long. They comprised green, brown, blue, amber, and white shades of colour. Patches of broken bottles were found in isolated localities, especially beside the railway line, river bank and the branch road through Gowrie near tree stumps and along the margin of the terrace. The assemblage of glass artefacts comprised concave and nosed tool, piercers, and side scrapers. Additionally, a number of fragments of crockery and insulators appear to have been used as scrapers, and were 2.5 – 3 cm long. A piece of grey roof slate that was 10 cm long, and an irregular-trapezoid shape, had its longest margin serrated for 7 cm. No glass Bondi Points or geometric microliths were found.

Additionally, no axes or mortars were found in Singleton, and it was hypothesised that the lack of seed and nuts at Singleton was due to absence of particular types of flora. For example, in Bulga mortars were found in association with Kurrajong trees and *Macrozamia* palm. With regards to the lack of axes it was proposed that terrace implements form a pre-axe industry at Singleton which has survived minus the geometric microliths. It was proposed that this indicates that the Singleton

terrace implements could be the oldest in the Hunter Valley. However, additional dating information was required to confirm this.

### MOORE 1970

David Moore, curator of Anthropology at The Australian Museum undertook an archaeological survey within the Hunter Valley in the late 1960s to the early 1970s. He excavated rock shelters at Sandy Hollow, Milbrodale and Bobadeen that contained occupation deposit with specific types of tools, including Bondi points, Eloueras, geometric microliths, and side and end scrappers. Moore also excavated a terrace along the Hunter Valley to determine if artefacts found eroding from the surface reflected deeper stratified deposits.

The Sandy Hollow rock shelter was positioned at the foot of an escarpment that accessed Cassilis Gap. This was the entry way from west of the Great Divide into the Hunter Valley and was thought to be where the Kamilaroi would enter Wanaruah Country for trade or warfare. A total of 4,190 stone artefacts were recovered including 66 Bondi Points, 22 miscellaneous backed blades and nine Eloueras, and a few scrapers. A variety of animal bones including grey kangaroo, wallaby and brush-tailed possums were found. There were also shells from a variety of fresh-water mussels. Carbon dates at the lowest levels were approximately 1,300 years.

One of the two Milbrodale rock shelters excavated was positioned above Bulga Creek and contained hundreds of flakes and 152 cores. The tool types included Bondi, Eloueras, microliths, side scrapers (side and end), an adze flake, fabricators, cores, and a ground-edge axe. The lowest level was found to date to approximately 1,400 years BP.

The area along a 200-foot (approx. 61 m) contour between Wollombi Brook junction and Singleton that had previously been noted by McCarthy and Davinson in 1943 as containing a large number of artefacts eroding in sections was also investigated through a series of test trenches. None of the trial excavations produced any conclusive evidence but did establish that the artefacts eroding out were within the sparse (15 to 30 cm of topsoil) overlying the heavy clay. Moore also found other artefacts were found sticking out of the clay on the surface, and proposed that this because when water erosion occurs the artefacts can further accumulate by sticking in the clay at erosion points. So, it cannot be inferred that an extraordinarily intensive implement-making industry occurred in these areas of the terrace simply due to clustering of artefacts.

The Bobadeen rock shelter that was excavated in 1967 was located beside Queen Creek. It was noted that it was about 1.6 km from a 'magnificent painted shelter' containing a panel of red hand stencils about 91 m long. The small shelter was about 4 m long and 3 m deep and produced a large quantity of implements, including Bondi Points, scrapers, adze flakes, fabricators, a core, a pebble hammerstone, a small pebble muller and a complete axe head. A high proportion of the tools were made from milky quartz, and rock crystal, and fine-grained chert. There were also

69 probable bone implements including ones that seemed to be a specialised type of burin. It was suggested that they were used to inscribe the patterns on animal skins, such as marsupial cloaks. Moore also noted the following regarding the quartz tools:

> *The extraordinary quality of the quartz-working at this site surprised all those excavating. Quartz Bondi Points ranged from perfect specimens to rough stubby blades, but some of the quartz crystal geometric microliths, many less than a centimetre in length, could scarcely be believed to be man-made, until they were placed under a medium-powered microscope, when it could be seen that there was unquestionable secondary working along their backs.*

The shelter also contained animals including ringtail possum, brushtail possum, bandicoot, wallaby, rat kangaroo, and freshwater shell. The lower levels of shelter were dated to approximately 7,750 years. However, it was believed that as this date was associated with a Bondi Point, it seemed too early, a further sample taken from another area within the same level yielded a day of approx. 5,150 BP. which was believed to be more reliable.

#### DYALL 1979

This report is incomplete and disjointed. From the information provided by AHIMS it appears that in 1979 Len Dyall undertook an archaeological survey for the development of Warkworth Mine. The survey covered all the creek systems and ridges. Dyall identified 15 Aboriginal sites that comprised stone artefact scatters and isolated finds, included a "Bulga Knife" made of limestone that was in the possession of the mining manager. Approximately 73 grinding grooves were located in a creek bed and a number of microlithic baked blades were also found and one site had 'at least 500 waste flakes and flaking cores'. The report mentions that the stone raw material used was chert and rhyolite.

It was recommended that the axe-grinding grooves be documented as the rock was breaking up from natural causes. The other sites were considered minor and there were no recommendations to investigate them further. Unfortunately, it appears no potential for subsurface archaeology seems to have been considered even though from the paucity of information in the report there was interesting archaeology in the area and numerous camping and activity areas present.

#### DENIS BYRNE 1985

Denis Byrne was engaged to undertake an archaeological survey at Grasstree Ridge near Muswellbrook, approximately 1 km south of the current study area. The project was for the extension of a gravel quarrying operation that was situated on low hilly terrain and comprised silty sandstone, and siltstone, shale, and mudstone.

The study area was noted to have a history of ground disturbance stretching back some 30 years, and the ground surface of the study area had been extensively impacted. No archaeological material was located during the survey and the

chances of locating artefactual material was considered to be negligible. No further archaeological investigations were considered warranted.

### DAVIES 1991

S.J. Davies from the University of Queensland undertook an archaeological assessment of the proposed 120 km optic fibre cable route between Cessnock and Scone, New South Wales. A survey was undertaken with representatives from the Wanaruah and Mindaribba Land Councils within a 6-metre-wide corridor that was generally located on the north to east side of the New England Highway. The survey was divided into sections of which two are within close proximity to the current study area. They were the Muswellbrook to Singleton Section (2) that was 45 km in length, and the Singleton to Branxton Section (3) that was 27 km in length. Six sites were identified during the survey, five of which were within the Muswellbrook to Singleton section. The other site was in the Singleton to Branxton section.

Four of the six sites identified were stone artefact scatters comprising between 10 and 50 stone artefacts. The other two sites were isolated stone artefacts. The stone artefacts were mainly flakes and flake pieces with only one core and one flake with retouch noted. No implements such as backed blades were observed and the raw materials used were mudstone, chert, and silcrete. Three of the sites are within the current study area and are described as follow:

- AHIMS #37-2-0543 (Telecom Site 3) Isolated stone artefact. It was identified as an unmodified mudstone flake. The artefact was located on the side of an actively eroding gully on the slope of a low hill.
- AHIMS #37-3-0192 (Telecom Site 4) and duplicate of AHIMS #37-3-0462 (Davies Site 5). Isolated stone artefact. It was identified as an unmodified mudstone flake. Site Condition: The artefact was located on the surface of a shallow depression of erosion. An immediate threat to this site from erosion is unlikely.
- AHIMS #37-3-0193 (Telecom Site 5) Stone Artefact scatter. Approximately 20 stone artefacts were located on the surface of a high creek terrace. The site is approximately 20 $m^2$ in area. Artefacts were not observed along the erosion face of this terrace although they were eroding from the side of a creek terrace to the west of this site. Site depth could not be determined.

It was believed that the visible artefacts were only segments of more extensive (though possibly discontinuous) scatters of stone artefacts. The maximum density of artefacts at the sites ranged between 4/$m^2$ to 12/$m^2$ and they were all located in cleared grazing paddocks with artefacts only being visible in the eroded segments of banks or low-level spurs adjacent to creeks/gullies. Disturbance at these sites appeared to be minimal.

The sites were considered typical of sites in the Central Lowlands subregion in terms of location, range of raw material types, and the general lack of unmodified artefacts. However, in consultation with the Wanaruah LALC, one of the sites (AHIMS

#37-6-480) that contained 50 artefacts was considered to offer further research potential due to the minimal signs of disturbance. It was recommended that the sites be avoided but if this was not possible then archaeological test excavation should be undertaken at the site under threat to assess its extent and research potential.

### HLA 1994

Ian Stuart from HLA Envirosciences Pty Ltd undertook an archaeological survey along the easement of a relocated powerline proposed between Mount Thorley along Jerrys Plains Road in 1994. Although the dense vegetation restricted the effective survey coverage two sites were identified. Both sites are within the current study area and are considered 'valid'. These are:

- AHIMS #37-6-0677 (Wark-1) is and extensive stone artefact scatter on the western side of Doctors Creek. It comprised 'a variety of silcretes' but no formal tool-types.
- AHIMS #37-6-0682 (Wark-2) is an isolated silcrete stone artefact with retouch and evidence of usewear. The artefact was located in a very shallow stream bed.

It was recommended that as site AHIMS #37-6-0677 was considered to be of high significance and if it could not be avoided then a controlled archaeological excavation of the hole for the electricity pole be undertaken.

### Robynne Mills 1999

Robynne Mills undertook a heritage assessment for a proposed New Wastewater Treatment Plant at Kurri Kurri. A survey was conducted with representatives from the Wonnarua Tribal Council that identified two isolated artefacts that were recorded as AHIMS #37-6-0866 (KK-IF-1) and AHIMS #37-6-0865 (KK-IF-2). A PAD was also recorded during the survey.

AHIMS site #37-6-0866 (KK-IF-1) is within the current study area and was described as being located on an ant's nest on the edge of a cleared area approximately 5 m x 8 m. The artefact was a yellow/red chert flake 1.8 x 1.5 x 0.4cm with 40% water worn cortex. The study area was considered to be highly disturbed and the site was considered to be of low significance. The area of PAD located on the north-eastern boundary of their study area was described as covering an area of 30m x 20m. however, the site card for #37-6-0866 noted "no other areas of PAD were identified" and so the site is not registered as an artefact site with associated PAD.

It was recommended that if the registered sites could not be avoided then a 'consent to destroy' permit be applied for and no further archaeological investigation was considered warranted. It was recommended that the PAD also be avoided but if this was not possible then the area should be pegged out and further assessed by an archaeologist and representative of the Aboriginal community.

While this site is located within the study area, it has been impacted by construction of the Hunter Expressway and no further consideration of this site is included in this report.

### KUSKIE AND KAMMINGA (SOUTHEAST ARCHAEOLOGY) 2000

Kuskie and Kamminga undertook an archaeological salvage excavation of two Aboriginal sites along the route of the proposed Freeway at Black Hill near Newcastle. The area was approximately 11 km to the east of the current study area and was within the Central Lowlands. The sites Black Hill and Woods Gully were 700 m apart and the landform comprised undulating hills and rises within a silt to sandy clay loam soil profile. They were also in close proximity to Hexham Wetlands, a large freshwater swamp.

The report discussed previous test excavations undertaken by Baker in 1996 that included a sample of 66 one square metre units and two open areas (4.25 $m^2$ at Woods Gully and 9 $m^2$ at Black Hill) to the B horizon. High numbers of artefacts were found on a large spur crest with an easterly aspect over the watercourse and Hexham Wetlands, and also on a north-facing mid-slope area. Additionally, one square meter excavated at Woods Valley contained 1,854 artefacts, which was the highest artefact density in the Hunter Valley at that time. The dominant stone material was silcrete which was noted to be available in cobble form at Beresfield and Holmwood estate. Nobby's tuff was also identified, and Baker found backed blade manufacturing was present and evidence of bipolar reduction also occurred but not as common.

Following on from Baker's results, Kamminga and Kuskie aimed to investigate the relationship between artefact densities across mid-slope, crests, and low spurs bordering water courses by targeting areas that Baker had not tested. The excavation also aimed to provide a detailed analysis and characterisation of the artefact assemblages including technological strategies associated with the production of microblades; other stone tool technologies, stone procurement strategies, tool functions and how these technological strategies relate to subsistence strategies.

At the Black Hill site, 364 test pits were excavated on the ridge crest and south and north slopes, and an additional 71 $m^2$ area was excavated through broad and hand-excavation. A total of 13,790 artefacts and 9,226 lithic fragments were recovered (59.9% recognised artefacts and 40.1% of lithic fragments). The broad area on the near-level ridge crest was noted to have had excellent views in all directions and was approximately 200 m from the wetlands. Rhyolitic tuff was the dominant material (72.4%), followed by silcrete (26.6%) with a very low frequency of other materials (1%). Flakes were the dominant artefact type (37%), followed by flake fragments (33.1%), microblades (6.3%) and microblade portions (9.2%) are also relatively common There were also low frequencies of recognised tools/ implements

including Bondi points, flake scrapers thumbnail scrapers, eloueras, retouched flakes, utilised flakes, flake scraper, and a grindstone.

At the Woods Gully site, 248 test pits were excavated, one broad area measuring 48 $m^2$, and the monitoring of two surface scrapes measuring 9,332$m^2$. A total of 8,915 artefacts, mainly from hand excavations, were retrieved. Stone materials in the combined artefact assemblage were dominated by rhyolitic tuff (75%), followed by silcrete (20.9%), with a very low frequency of other materials (4.1%). Artefact types comprised flakes (37.4%), flake fragments and portions (36.3%), microblades (6.8%) and microblade portions (6.9%). Low frequencies of recognised tool types included, Bondi points, eloueras, and retouched flakes.

Quartz was found in low numbers < 5% but also had evidence of in-situ knapping of microblades and bipolar flaking. Chalcedony was rare with only 1.5% of the assemblage. Chert artefacts were also found with only 11 items identified. A few pieces of dacite, a volcanic, and five sandstone pieces were found including one anvil. Two pieces of hard red ochre were also recovered. It was proposed that the tuff derived from thin seams that occurred in the hills immediately behind the sites. Tuff could have also have been acquired from Nobby's Head in Newcastle.

The Mindaribba Local Aboriginal Land Council were heavily involved in all aspects of the investigation and the results of the study were presented to the Aboriginal community and general public through a poster, a documentary, a permanent display of artefacts, a cultural landscape replicative model of the Woods Gully locality (displaying Aboriginal people engaged in traditional activities) and an illustrated non-technical report.

A total of forty-four categories of stone artefacts were identified in the Black Hill 2 and Woods Gully assemblages. Six categories of activities were identified through the artefactual evidence at the sites: non-specific stone flaking, bipolar flaking, microblade production, backing retouch of microblades, loss or intentional discard of microliths and loss or intentional discard of non-microlith tools. However, many of the artefact categories represent debris from stone knapping, with production of microblades the most common specific activity. Some of the microblades (and probably other flake types) were further knapped to make microliths, particularly Bondi points. Artefact assemblages containing microblades and microlith knapping debitage were considered typical of prehistoric occupation sites in the lower Hunter Valley and south-eastern Australia generally.

Microscopic inspection of specimens, thin-section analysis and x-ray diffraction analysis were used to identify stone materials and establish that the stone type commonly referred to by archaeologists as 'indurated mudstone' is in fact indurated rhyolitic tuff. It was proposed that much or nearly all of the stone used for knapping was probably derived from local sources within a day's foraging range of campsites. The relationship of artefact distribution to environmental variables such as slope, aspect and distance to water was examined. The results indicate that human activity

was focused on the level crest and gently inclined north-facing upper-slope at the Black Hill 2 site. At the Woods Gully site, occupation was focused in several areas with contrasting environmental conditions.

An episode of occupation associated with a stone-lined fireplace at Woods Gully was radiocarbon dated to 2,130±70 years BP. The predominant type of stone tool manufacturing that had taken place at these two sites was considered to be micro blade and microlith technology, which was proposed could be as old as approximately 4,000 years BP. Microscopic examination and consideration of the design technology of the Eloueras stone implements were suggested by Kuskie and Kamminga to be tools that were used in the processing of plants such as rhizomes in ferns (2000:400-401). Usewear on the flakes from Wormi cleavers were smoothed indicting they were used on soft material such as plants, and they were recycled as cores to make smaller artefacts. Twelve grindstones were identified that would have been used to produce a variety of plant foods. A number of artefacts also have multiple hertzian cones which were considered diagnostic elements of microblade and microlith knapping debitage.

Kuskie and Kamminga (2000) deduced from the stone tool/implements that the site was used over multiple episodes of occupation. They concluded that the production of Bondi points took place on site, which included hafting with resin. Ochre was also probably obtained from a regional source, for example north of Lake Macquarie. Plant foods were most likely processed and consumed on site using Worimi cleavers and eloueras were fixed to a wooden handle or to the end of a digging stick to procure plant foods with strongly fibrous or woody tissue. Animal foods were processed and consumed on-site.

### Helen Brayshaw 2003

Helen Brayshaw undertook an investigation to relocate a Bora Ground that had been mentioned in heritage reports and local history publications. The investigation was considered urgent as the Aboriginal community were concerned it may be impacted by the proposed expansion of Glendall Mine. The purpose of the investigation was to use the available information to locate two sites, AHIMS # 37-6-055, a scarred tree, and AHIMS #37-6-56, a Ceremonial Ground, as accurately as possible, even though it was understood that no physical evidence remained.

Discussion with two local non-Aboriginal people (David and Jim Eather) concluded that the scarred tree and ceremonial site were at the same location and it was approximately 300 m from Wollombi Brook on the eastern side of a stock route and about 1.4 km north of the current NPWS position for the site. The men's uncle (Alex Eather) had taken a museum party to the site before he died in 1956 and photographs were taken and the below description appeared in the *Singleton Times Newsletter* in 1993:

> *Here also is to be seen the remains of an ancient Bora ground with its sacred circles still defined by small mounds of earth and a ring of carved trees still*

*bearing the curious emblematical devices which marked· this strange and mystical ceremony of initiation of the young men of the tribe to tribal rites. This Bora ceremony was held in the year 1852, and on reliable authority of residents of the locality was attended by between 500 and 600 Aborigines from various tribes from as far as Mudgee and Goulburn.*

Additional discussions with the Australian Museum found a paper that indicated that Alex Eather had had discussions with the museum in 1918 and had brought in some siliceous stone flakes and mentioned the location of the carved tress, clearing and mound as still intact. The Museum proposed an expedition to record the site on 13th May 1918. In a response letter to the Museum Alex Eather also replied that there were about a dozen marked trees. Thorpe reported to Ethridge in May 1918 (Curator at the Australian) the following:

*The party was duly conducted to the Bora Ground, the position of which will be fixed later, as the site [is] possibly in another Parish other than that of the map provided. Observations and measurements were made, showing the position of each tree. This will be diagrammatically portrayed by Dr Anderson.*

*The trees, [Red Gum & Apple], were carved in the bark, with a short bladed tomahawk sixty years ago, and the bark being absent it was necessary to reconstruct the different patterns of the carvings in chalk, from well-defined scars made on the sapwood. None of the trees are worthy of removal.*

*Associated with the trees and intercalated more or less regularly with the same, are a number of mounds of heaped earth. These will also be shown on the plan. There is also, in the north-eastern corner of the Bora Ground, a crescentic mound 2 feet high by 15 feet greatest length. Two of the smaller variety and the crescentic mound were cut through and bottomed on sandstone at a depth of about four feet. They contained nothing of an Aboriginal character. The site is in open forest country on a slight eminence or plateau. Four of the trees were photographed; those carved all around were taken from different views. The ground is exceptionally level and sandy.*

*Or Thursday, Dr Anderson and Glutton proceeded in another direction to photograph some rock paintings, which I believe are exceptionally fine. I spent the day collecting flakes and other Implements at the camp site in the Bora Ground vicinity.*

Although the Ethridge noted that a 'full report' would be provided, it has not been found.

#### UMWELT 2005

Umwelt outlined the history of previous Aboriginal cultural heritage assessments that had been undertaken for the F3 to Branxton project in order to review constraints and provide management recommendations. The report concentrated on issues relating to the modified route for the Branxton interchange. It provided detail of the potential impacts of the construction of the Branxton interchange on Aboriginal sites

and PADs within the area. It also noted that some of the sites had been subjected to archaeological salvage and some of the PADs had been tested.

Umwelt noted that the initial assessment of the pipeline route alignment had been undertaken in 1994 by Brayshaw and MacDonald in consultation with Mindaribba Local Aboriginal Land Council. The survey had located 10 Aboriginal sites (including five artefact scatters, five isolated finds) as well as 10 PADs along the entire length of the route alignment. However, the NPWS subsequently requested more information including wider consultation with Aboriginal groups, mapping of the geology and topographic units, reviews of previous archaeological work, and a predictive model. Brayshaw's 2001 report to NPWS was approved providing that more Aboriginal groups were consulted, test excavations were undertaken, and a Cultural Heritage Plan of Management was drawn up.

In 2002 Umwelt undertook the additional Aboriginal heritage assessment requirement over a 12-month period. This included the inspection of the entire route alignment and a corridor five km either side in consultation with representatives of five Aboriginal groups. Consideration was also given to the distribution of natural resources that would have been used by Aboriginal people. The assessment located 29 isolated stone artefacts, 50 artefact scatters, eight sets of grinding grooves, 22 PADs, three stone arrangements, two areas of cultural heritage and seven European heritage items. This data and consideration of access to natural resources was used to design a methodology for salvage of sites and investigations of PADs.

The Umwelt (2005:5) report includes seven stone artefact/s sites around Anvil Creek (Table 8) that are mapped as being within the current study area. However, the report noted these had been collected under Section 90 consent #2102 and no further salvage was not required. No details on the stone artefacts were provided. However, the soils in the area were noted to be very sandy loams over a pebbly conglomerate.

It was proposed that a light background scatter of artefacts could be expected in a subsurface context across the whole of the survey area and its environs. Although the larger concentrations were considered likely to occur on the northern side of Anvil Creek with the area at the confluence of Anvil Creek and Redhouse Creek.

**Table 8: AHIMS sites within the current study area that are currently registered as 'valid' but have already been salvaged.**

| AHIMS no. | Site Name | Site Type | Recorder |
|---|---|---|---|
| 37-6-1312 | Anvil Creek RTA 10 | Artefact Scatter | Umwelt |
| 37-6-1313 | Anvil Creek RTA 11IF | Isolated find | Umwelt |
| 37-6-1320 | Anvil Creek RTA 18IF | Isolated find | Umwelt |
| 37-6-1321 | Anvil Creek RTA 19 | Artefact Scatter | Umwelt |
| 37-6-1322 | Anvil Creek RTA 20IF | Isolated find | Umwelt |
| 37-6-1323 | Anvil Creek RTA 21 | Artefact Scatter | Umwelt |
| 37-6-1324 | Anvil Creek RTA 22 | Artefact Scatter | Umwelt |

It was recommended that a stone artefact scatter on Redhouse Creek be conserved due to its high Aboriginal significance and teaching potential. Another site on Anvil Creek was recommended to be salvaged under a Section 90 permit.

### WORTH 2007

Worth undertook an Aboriginal Cultural Heritage Impact Assessment at 109 Knodlers Lane, Maison Dieu. Worth's study area included a portion of the current study area. The study area covered approx. 3.5 ha of land and the assessment included a review of previous archaeological investigations and an updated survey to relocate previously recorded Aboriginal sites and identify new ones.

The report states that a total of 202 artefacts, comprising 185 flakes and 17 cores were found, along with 299 debitage/broken flaked pieces, or raw stone material. However, it was not clear how much of the 'raw stone material' was included in the 299 pieces.

Four sites were identified, including one within the current study area:

AHIMS #37-6-1802 (MU2 B) was in 90 m x 40 m area of gently sloping land approximately 40 m west of the M2U site, and within 50m of a drainage line. It contained 124 stone artefacts which comprised mainly mudstone (71%) followed by silcrete (14%) and small amounts of chalcedony, chert and quartz.

It was recommended that a research permit and impact permit be submitted to undertake a salvage exercise to collect the artefacts.

### UMWELT 2004

Umwelt undertook an Aboriginal archaeological assessment within the Glendell Mine Lease, approximately 16 km northwest of Singleton and just west of the current project area. A total of 37 sites were identified during the field survey along Bowmans Creek /Swamplands, Swamp Creek and Betty's Creek. They comprised 29 stone artefact scatters, seven isolated stone artefacts, one quarry with associated artefact scatter, and one buried soil profile. The artefacts were mainly made from mudstone and silcrete and not the locally-available material of quartz and quartzite. Although there were a couple of quartz bipolar flakes.

It was concluded that the entire Glendell mine site would have provided adequate resources for small groups of Aboriginal people. However, Bowmans Creek would have formed the focus of camping activities for longer durations. Occupation sites would be expected to be found on the lower slopes, terraces and floodplains along Bowmans Creek/Swamp Creek floodplain.

It was recommended that sites that will not be subjected to immediate impact should be managed in situ, and that the ones that would be impacted by proposed mining works be subject to a surface collection and under a Section 90 consent.

### UMWELT 2006

Umwelt Environmental Consultants undertook an Aboriginal archaeological survey and assessment in consultation with Aboriginal groups for the proposed 132 kV sub-transmission line at Antienne, near Lake Liddel, and close to the portion of the current study area that is on the eastern side of Lake Liddell. A total of nine Aboriginal archaeological sites were identified. Six of these were artefact scatters and two were isolated stone artefacts. The 72 artefacts comprised mainly flakes and flaked pieces but there was also one blade, three retouched flakes and seven cores. The artefacts were made predominantly from silcrete and mudstone, with a small amount manufactured from porcelanite, hornfels, quartz and chalcedony.

The majority of sites were found to be located within riparian corridors (drainage lines and banks of drainage lines) and no sites were found to have any areas of PAD. It was recommended that three sites be conserved and managed in situ and the others be subjected to a salvage collection.

Five sites were salvaged through surface collection in December 2006, including AHIMS #37-3-0454 (Lid1) that is within the current study area. The site was an artefact scatter that comprised three mudstone flakes in a 30 m x 20 m area that had been impacted by minor sheet erosion.

### UMWELT 2008

Umwelt Environmental Consultants provided an Aboriginal Cultural Heritage Management Plan for the Glendell Mine, just east of the current study area. It detailed previous archaeological investigations that identified 38 sites comprising isolated stone artefacts and stone artefacts scatters. It also discussed the sites that had been subjected to salvage surface collections and excavation.

The management plan was primarily to protect the remaining five sites and areas around the previously salvaged sites, as well as a conservation area to protect any potential new sites. The management plan included recommendation for the establishment of a management committee to oversee the management plan. The committee would include two members of the mine managements, three representatives of the registered Aboriginal stakeholder groups, and a qualified archaeologist on call if required. The plan would include cultural awareness training for mine personnel, the monitoring of sites by an archaeologist and Aboriginal stakeholder representative, access to sites for teaching and research purposes with permission form the Management Committee, and removal of stock from the sites.

### INSITE HERITAGE 2009

Insite heritage was engaged by Ashton Coal Operations (ACOL) to undertake an Aboriginal archaeological heritage assessment of an area subject to two proposed realignments of Bowman Creek. Previous projects had been undertaken by Insite Heritage for ACOL that had identified seven archaeological sites (artefacts and isolated finds) on the western side of Bowmans Creek. These comprised artefact scatters and isolated finds. One site and a PAD was proposed to be impacted by the

creek alignment. It was recommended that the area be subjected to an archaeological salvage.

The report discussed the investigations that had previously been undertaken within the mining lease area including HLA EnviroSciences (2001), Witter (2002) and Mitchell (2002). The survey by HLA (2001) had identified 24 archaeological sites. These were mainly isolated stone artefacts and stone artefact scatters. The majority of artefact types were noted to have been flakes, flake pieces, some cores and tools. The dominant raw material was recorded as 'mudstone' and 'silcrete'. Witter undertook a more comprehensive survey of the same area and identified an additional 18 sites including six sets of grinding grooves. At three of the sites 'Waterhole', 'Oxbow', and 'Gennies Creek' over 200 artefacts were identified and it was proposed that there was a low component of microblade technology. Wittner (2002:75, cited in Insite 2009) also commented that site may have been related to fishtraps. These sites were all on high ground and adjacent to a deep section of a permanent creek.

Wittner (2002, cited in Insite 2009) identified the Waterhole site, which is with the current study area. It is described as follows:

**(AHIMS # 37-3-0500/ AHIMS #37-3-0006)**. The site was recorded as being 250 x 100 m and contained 256 artefacts and three sets of grinding grooves. Along with flakes and debitage there were also implements that included mudstone blades, retouched scrapers, a chopper core, and a stone axe. There were also signs of heat treat treatment on the stone artefacts within the scatter. Although the area was considered to be heavily eroded, a possible intact area of 50 m x 50 m was found.

The report also noted that a geomorphological study had also been undertaken into Wittner's survey area and this included a pit dug into a terrace with the Ashton Glennies Creek site. An artefact was found 55 cm below the ground surface with a buried soil profile and it was suggested it may have been of early Holocene or possibly late Pleistocene age.

### AMBS 2009

AMBS was engaged to undertake an Aboriginal Heritage Assessment for Energy Australia (EA). The proposed project was for an upgrade to the 132kV 'Kurri - Redbank Feeder'. The upgrade comprised the installation of approximately 115 concrete poles at 55 locations along a 54 km easement between Kurri Kurri in the south and Redbank, just north of Mount Thorley.

The assessment included a review of previous archaeological investigations, consideration of the environmental context, and a pedestrian survey with representatives of the Aboriginal community to relocate or identify new archaeological sites. The assessment also provided an Aboriginal heritage site predictive model.

A total of 65 sites were identified, of which two had been previously recorded. These site types were mainly stone artefact scatters (41), followed by isolated finds (19), then artefact scatter with PAD (4). A total of 321 flaked stone artefacts, one ground stone hatchet, and one sandstone grinding slab were found. The stone artefacts were mainly made from silcrete (90), indurated mudstone (73), silicified tuff (23), then quartz, quartzite and chalcedony in small proportions

Forty-six sites were assessed as having low significance. They were isolated stone artefacts and stone artefact scatters with less than 10 artefacts. Fifteen sites were assessed as being of 'moderate' significance with research potential. These generally had over 10 stone artefacts and/or had tools present. The tools within these sites included backed artefacts, flake scrapers and a ground-edge hatchet. Four sites were identified as having 'high' significance. Three were artefact scatters with associated PAD, and one was a grinding slab which was considered to be a rare find.

It was predicated that areas on crests adjacent to the confluence of creeks, or on creek flats near perennial water course have 'high' archaeological sensitivity if there is a low-level of disturbance. Areas of 'moderate' sensitivity are typically in close proximity to creeks and have low-levels of disturbance. Area of 'low' archaeological sensitivity were areas over 150 m from water courses with a high level of disturbance.

It was recommended that areas with 'moderate' and 'high' archaeological sensitivity that could not be avoided be subjected to further investigation and the PADs undergo test excavations. It was recommended that an AHIP be sought that would permit the test excavations and also allow the artefacts to be moved out of areas that maybe impacted, such as vehicle tracks.

### KUSKIE 2010

Kuskie (South East Archaeology) was engaged to undertake an Aboriginal heritage impact assessment for the proposed Stage 3 upgrade of the Branxton Waste Water Treatment Works (WWTW). The investigation area was located at Branxton, in the Hunter Valley of NSW

A field survey undertaken with the assistance of representatives of the registered Aboriginal stakeholders. It involved comprehensive coverage (approximately 40% direct sample) of the 4.5 hectares. Portions of the study area have been substantially impacted by previous land which had greatly reduced the potential for *in situ* archaeological evidence to occur in a sub-surface context in these areas.

One site was identified during the survey ('BWWTW 2/A', an isolated artefact) and it was considered of low scientific significance within a local context. However, the presence of sub-surface artefacts that have been dislocated from their original contexts and are of negligible significance cannot be discounted. It was recommended that an AHIP be sought to investigate potential sub-surface artefacts.

### UMWELT 2010

Umwelt was engaged to prepare an Aboriginal Cultural Heritage Plan of Management (ACHPM) for the F3 to Branxton Link (Hunter Expressway) prior to the construction phase. It was also to provide management strategies, methods and outcomes for the known Aboriginal sites and values identified and remaining within the Hunter Expressway road corridor.

The ACHMP was prepared in consultation within the relevant Aboriginal stakeholder groups, and the study area was divided into 'Zones of Management' which Identified carrying levels of Aboriginal cultural heritage and archaeological sensitivity. The zones that contained existing registered sites that had specific management requirements, such as grinding grooves, were detailed individually. A number of sites within Appendix 4 of the ACHMP report had also already been salvaged, or had been subjected archaeological subsurface testing prior in 2005. Some of these sites are/were within the current study and have been summarised under 'Umwelt 2005'.

### MCCARDLE CULTURAL HERITAGE 2010

McCardle Cultural Heritage (MCC) was engaged to conduct test excavations on two areas of PAD after a previous investigation had identified 151 stone artefacts across the surface. PAD1 (AHIMS #37-6-2165) was located on the southern banks of Sawyers Creek, and PAD 2 (AHIMS #37-6-2164) was located on the northern bank.

A total of 41 test pits measuring 50 cm x 50 cm were excavated by hand and a total of 115 artefacts were identified. The highest numbers came from PAD 1 that was positioned within a raised alluvial land near the creek. It contained 114 artefacts and 108 came from two pits. The artefacts were noted to be made from mudstone (83) and silcrete (32). The entire assemblage comprised mainly flake pieces and complete flakes. These were recovered from within the top 10 to 20 cm soil profile. However, there were also three backed artefacts.

It was noted that there were a considerable number of flakes that had been longitudinally split, which would have occurred through in situ knapping. There was also a large number of small pieces (debitage). It was proposed that this evidence, coupled with a relatively undisturbed soil profile, suggests that in situ tool making/maintenance had occurred at the site.

It was recommended that PAD1 (AHIMS #37-6-2165) be subjected to further investigation by archaeological salvage.

### OZARK 2012

OzArk undertook archaeological test excavations of two previously registered sites AHIMS #37-3-0452 (LID 3), and AHIMS #37-3-1150 (LID 34) for an extension of an open cut mine on the eastern side of Lake Liddell. The project was in close proximity to the current study area. It was noted in the OzArk (2012) report that the area had already been subjected to extensive archaeological investigations since mining was initiated there with surveys undertaken from 1982 to 2011 by Haglund (1982),

Brayshaw (1981 & 1983) and Umwelt (2011, 2008, 2009, 2010 & 2011). These investigations were predominantly surveys but also included an excavation undertaken by Brayshaw in 1983 approximately 3 km to the west. Two 1 m x 1m pits were excavated to basal clay at 15 cm. A total of 822 stone artefacts were recovered from the surface and subsurface comprising silcrete and mudstone.

The OzArk test excavations were conducted conjunction with representatives from nine RAPs. A total of 133 test pits measuring 50 cm x 50 cm were excavated to culturally sterile soil or clay layers, 100 at AHIMS #37-3-0452 (LID 3). and 33 at AHIMS #37-3-1150 (LID 34). Ten artefacts were found within the top 15 cm of the soil profile that was considered undisturbed (eight at LID 3 and two at LID 34). Except for one flaked piece, all the artefacts were flakes and comprised mainly mudstone but also included two pieces of quartz and one piece of quartzite.

It was recommended that no further archaeological investigations were required; however, the Aboriginal community should be given an opportunity to collect any surface artefacts that may be within the areas of impact around the two registered sites.

### SOUTH EAST ARCHAEOLOGY 2013

Kuskie and O'Driscoll undertook an Aboriginal heritage impact assessment for the Maitland to Minimbah Third Track Project. Apart from the area around Rutherford, the remainder of the rail corridor had sections that fell within the current study area. Kuskie had been involved in many previous investigations of the study area that are covered in reports written from 2009 to 2012.

The field work was initially conducted over a 55-day period in conjunction with Aboriginal stakeholders. It included surface collection and archaeological salvage excavations. The project was proposed to impact 57 previously identified sites. Of these sites, 43 were successfully relocated and salvaged, the remaining, that were mostly isolated artefacts and small artefact sites could not be found.

The archaeological salvage work was completed under a combination of an approved Aboriginal Heritage Management Plan and an AHIP. The salvage included 16 surface scrapes which covered an area of 23,000m$^2$ and resulted in the recovery of 1,048 stone artefacts. Six of these areas that measured a total of 14 m$^2$ were excavated by hand and 449 stone artefacts were found. An additional 23 m$^2$ in a broader area was also hand excavated and a further 997 stone artefacts were retrieved. There were also 350 stone artefacts retrieved during surface collection. This resulted in a total 2,824 stone artefacts being retrieved over the course of the salvage.

Analysis of the stone artefacts found that ten different categories of stone material were identified. The assemblage was comprised mainly silcrete (71.6%), followed by tuff (26.5%) and much smaller amounts (less than 1%) of chert, quartz, quartzite, volcanic, basalt, acidic volcanic, sandstone and volcanic breccia. It was suggested

that the silcrete would have been available in colluvial and /or alluvial deposits. The assemblage was dominated by flakes (30.5%), then flake portions (24.3%), followed by fragments of flakes (23.5 %) and cores (8.8%). There were also retouched flakes (2.9%), backed artefacts (2.8%), blades (1.5%) and less than one percent of hammerstones, bipolar flake, axe, ground-edge hatchet, Bondi point, utilised Bondi point, utilised backed artefact and utilised blade.

Kuskie and O'Driscoll proposed that the stone tools and fragments suggests that the study area may relate to the production of microblades and microliths, perhaps to arm spears. However, given that most of the stone artefacts are remnants of tool-making (debitage), other types of tool-making activity cannot be specified. Additionally, the spatial distribution of artefacts in the areas examined from Maitland to Minimbah salvage showed there was a low-density distribution of artefacts consistent with background discard. However, there were low number of discrete activity areas that were more prevalent in flat areas, followed by similar densities between slopes, drainage depressions and spur crests.

Kuskie and O'Driscoll also proposed that portions of their investigation area are places that would be considered to be secondary resource zones. In particular, those close to higher-order watercourses such as Stony Creek, Anvil Creek, Sawyers Creek, Black Creek, Sweetwater Creek and Jump-up Creek, along with areas at the eastern end close to Wentworth Swamps, were considered to provide resources for Aboriginal people. Occupation of these areas would probably have involved hunting and gathering activities by small parties of men and/or woman and children. There also would have been seasonal encampments of small hunter-gather groups, and nuclear/extended family groups.

### Central Queensland Cultural heritage Management Pty Ltd 2014

Central Queensland Cultural Heritage Management Pty Ltd (CQCHM) was engaged to undertake an Aboriginal Cultural Heritage Assessment Report within the Mount Thorley Warkworth (MTW) mining leases for the 'Warkworth Continuation 2014 Proposal' and the 'Mount Thorley Operations 2014 Proposal Environmental Impact Statements' for Coal & Allied. The area had already been subjected to comprehensive Aboriginal heritage surveys and research between 2002 and 2008 which provided the basis for the company's Aboriginal cultural heritage management strategy to minimise the company's impact on Aboriginal heritage. This strategy had been involved heavy involvement of the Upper Hunter Valley Aboriginal Heritage Working Group (CHWG).

CQCHM's current report aimed to outline current management practices at MTW, review the research that had been conducted for the new 'proposals', and ensure that potential impacts and the view of the Aboriginal community and cultural management commitments were considered. The report also outlined the Aboriginal Cultural Heritage strategies for other lands owned by Coal & Allied be reserved as conservation areas.

Summaries of the more pertinent previous investigations that had been undertaken within the CQCHM study area helped guide the management plans. These are listed below as they appeared in CQCHM's 2014 report.

AMBS 2002 investigated the far two thirds of the eastern section and identified 68 stone artefact scatters, 50 isolated stone artefacts and two grinding grooves. These were noted to mainly be located on drainage lines. One of the grinding grooves had been salvaged and relocated in 2010. These had previously been identified by Len Dyall in 1979 who found 73 grooves in a cluster. Laila Haglund identified a further nine grinding grooves 250 m upstream in 1999. The Aboriginal community were particularly concerned about the remaining grinding grooves.

AECOM 2009 identified 112 sites including 61 isolated stone artefacts, 46 stone artefact scatters, four scarred trees, and one scarred tree with stone artefact scatter in the western most section of the study area. Most of the stone artefacts were flakes and broken flakes but there were also points, blades, cores and hammerstones. There was also a piece of dark bottle glass that had been flaked. The bottle glass and the scarred trees were considered to be of high scientific evidence.

Scarp Archaeology 2009 undertook a study of the Warkworth sandsheet in the western section of the study area up to Woollombi Brook. Seven trenches approximately 5 m in length and .9 cm wide were excavated by machine. Samples were taken for OSL dating and carbon from wood was collected for C14 dating. Twenty-one stone artefacts were retrieved. The sample results varied wildly from 6,600 to 105,000 years old. The carbon samples provided dates of 300 years and 43,500 years, and the results indicated extensive mixing of the both the Aboriginal and European cultural material. This was concluded to be from bioturbation that included a large tree growth, termite mounds, and wombat burrows.

Thes previous investigations and concerns of the Aboriginal community were taken into consideration and it was proposed that lands along the western boundary, along Wollombi Brook and Loder Creek be set aside as Aboriginal Cultural Heritage Conservation Area. These would be managed by an integrated and co-management arrangement with the Aboriginal community. The community also emphasised the need to achieve long-term and secure management of a range of significant places and areas, including the Bulga Bora ground just west of the Warkworth area. They also wanted to investigate the possibility of acquiring the lands where Baiame Cave is located (approx. 7 km to the southwest).

### HUGHES, P., SPOONER, N. AND QUESTIAUX, D. 2014

Hughes et al. investigated the geomorphology and three previous archaeological investigation areas within the central lowlands of the Hunter Valley to help understand why Pleistocene sites (>10,000 years old) are difficult to find in the archaeologically-rich landscape. Their paper considered three archaeological sites that contained artefact-bearing deposits that had been dated to the present period by Optical Stimulated Luminescence Dating (OSL) and/or carbon dating. These were

at Chestnut Dune, immediately adjacent to the southern bank of the Hunter River, the western side of Sand Hollow Creek at Warkworth West, and the sand sheet on the north side of the Hunter River about halfway between Singleton and Muswellbrook.

Hughes found that, given the geomorphic and soil formation processes that have operated over the long period of Aboriginal occupation of the central lowlands in the Hunter Valley, it is likely that most archaeological materials older than approximately 10,000 years have either been completely removed or have been widely dispersed across the landscape and are no longer recognisable as discrete Pleistocene-aged assemblages. Even if there are older artefacts within A-horizons of the duplex soils that occur along the tributary creek valleys, it will be very difficult to distinguish from the associated younger artefacts. This is due to the geomorphic and soil formation processes that have operated over the long period of Aboriginal occupation in this area of the Hunter Valley. It is likely that most archaeological materials older than approximately 10,000 years have either been completely removed, or have been widely dispersed across the landscape and are no longer recognisable as discrete Pleistocene-aged assemblages.

It was proposed that up until about 40,000 years ago the Hunter River would have been a very powerful river, unlike the relatively inactive one that flows today. However, the investigation noted that two geomorphic contexts have been shown to have the potential to contain recognisable older archaeological materials: late Pleistocene windblown sand dunes/sheets (e.g. at Warkworth West) and late Pleistocene/early Holocene colluvial deposits (e.g. at Carrington pit mining site). Furthermore, sand dunes/sheets have the highest potential because they cover relatively large areas compared with prospective colluvial or alluvial fan deposits. They are also easily recognisable in the landscape. The distribution of windblown sand bodies is limited to areas adjacent to the Hunter River and Wollombi Brook, particularly near the junction of these two rivers.

The paper noted that although these sand bodies are present, they have limited distribution and are disappearing fast as a result of development, particularly coal mining. It will also be a difficult task to identify areas that have archaeological materials that confidently can be shown to be Pleistocene in age. The investigation found that where archaeological sites potentially of Pleistocene age are found, they are sparse, contain only stone artefacts and have been disturbed to varying degrees by bioturbation. This makes them difficult to date with confidence. However, despite these difficulties, the Warkworth Sands site has been shown to contain a lower assemblage of late Pleistocene age which began accumulating more than ~23,000 BP and possibly as early as ~50,000 BP.

### UMWELT 2014

Umwelt was engaged to undertake an Aboriginal Heritage study for the Ravensworth Mine Complex located between Singleton and Muswellbrook and provided an interim report on their Aboriginal cultural heritage works at the Ravensworth Operations.

A total of 373 Aboriginal site were found to exist within and near the subject area. This included 150 previously unknown sites that included 149 artefact scatter/isolated find sites, and one scarred tree. Forty-six of the newly-identified sites were managed *in situ;* 31 had interim fencing protection erected; 63 underwent surface collection; three sites had partial surface collection and partial in situ management; one site underwent surface collection and cultural salvage. A total of 225 sites had permanent fencing erected them, and 77 sites had temporary fencing erected around them.

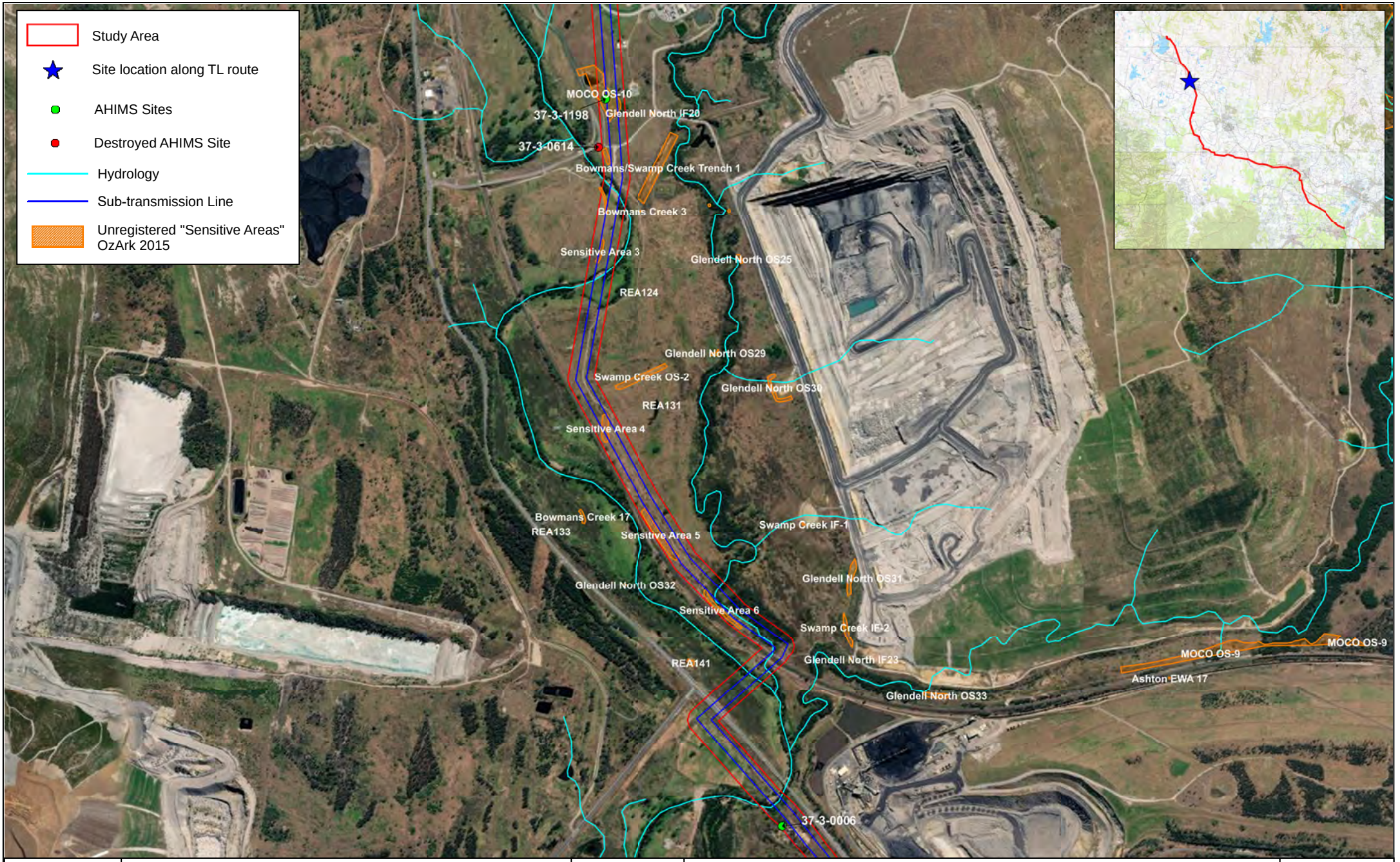
Subsurface test excavations were undertaken at 11 of the sites with 29,173 stone artefacts retrieved. Subsequent salvage excavations at 26 locations recovered a total of 25,186 artefacts. Although there was no lithic report attached to the interim report, it appears form the included tables that the stone artefacts included backed blades, geometric microliths, cores. The raw materials included mudstone, silcrete, quartz, hornfels, porcelanite, petrified wood, chert, chalcedony.

### OZARK 2015

OzArk prepared an Archaeological Due Diligence Assessment for a proposed 132kV powerline relocation within Glendell Mine on behalf of Glencore. The powerline was located within the western portion of Glendell Mine. One previously registered site (MOCO OS-10, AHIMS #37-3-1198) was identified as being within the proposal location. The study area was in proximity to Bowmans Creek and Swamp Creek.

No new sites were recorded during the assessment, but six potentially archaeologically sensitive areas were identified. These were identified based on their proximity to reliable water sources from Bowmans and Swamp creeks and their locations on elevated landforms above the surrounding floodplain. These areas are shown on Figure 7 below.

It was recommended that if impact to the sensitive areas was unavoidable, further archaeological investigations would be required within that area. The areas were not registered on AHIMS. It was also recommended that site MOCO OS-10 should be avoided by the proposed works.




PO Box 236
NOWRA
NEW SOUTH WALES 2541

0 0.75 1.5

kilometres

Projection:
MGA Zone 56 (GDA 94)
Base Map:
Bing Maps 2025
Final - Version 1

Figure 6: Glendell Mine study area - unregistered areas of sensitivity

### AMBS 2015

Following on from the AMBS 2009 Kurri Kurri to Redbank archaeological investigation discussed above, AMBS relocated stone artefacts on the surface from areas of impact within 36 sites. They also undertook test excavations in areas that were considered to have 'high' or 'moderate' archaeological sensitivity. These areas were in three archaeological (Zone 1, Zone 2 and Zone 3). Zone 1 was to the south between Kurri Kurri and Greta, Zone 2 was between Branxton and Singleton, and Zone 3 was between Singleton and Mount Thorley.

A total of 31 test pits were excavated across these zones and along the sub-transmission line in places where the poles were to be replaced. The pits measured 1.5 m x 1.5 m and the majority were excavated in 10 cm spits. The minimum depth was 4 cm and the maximum depth of 55 cm. At total of 163 artefacts were recovered from Zone 1. They were comprised predominantly of chalcedony (130), silcrete (25) and silicified tuff (8). The assemblage comprised mainly flakes and debitage. The angular chalcedony pieces were of fairly poor flaking quality that retained limited diagnostics, some with only partial conchoidal fractures. Although no formal tool types were recognised usewear analysis identified that the tips of the crystal-bearing chalcedony had evidenced of being used for piercing soft material such as animal hide, and another piece had evidence as being used on woodwork. It was noted that the use of crystals as tools has not often been documented. These artefacts were found in five of the seven pits excavated in hillslope and ridge locations in the Sawyer Gully area.

A total of 41 artefacts were retrieved from Zone 2 and comprised silcrete (33), silicified tuff (3), quartzite (3) and porphyry (2). The silcrete artefacts in this area had less cortex present and there were a low number of cores. It was suggested that this indicates that this could have been a campsite where the early stage of reduction in the tool-making process took place. A large quartzite cobble was found on the surface and had microscopic evidence of abrading that indicated it was probably used on bone or soft wood. The Zone 2 area is at Jump-up Creek flat within a sand deposit. However, the sand body was not considered to be of Pleistocene age.

It was recommended that no further archaeological investigation was required prior to the commencement of the proposed works. However, if further impacts are planned near Zone 1 and Zone 2 further archaeological investigation may be necessary.

### WLALC 2016

Wanaruah Local Aboriginal Land Council (WLALC) undertook a site survey for a due diligence at the intersection of the New England Highway and Golden Highway. A stone artefact scatter containing >50 artefacts, comprising mostly mudstone with some quartz, was identified in a long and eroded contour/drainage line to the north of an existing dam. It was suggested the newly recorded site was an extension of

two previously identified sites. As the sites were to be impacted by the upcoming works, it was recommended that the sites be salvaged under an AHIP.

### KELLEHER NIGHTINGALE CONSULTING 2017

Kelleher Nightingale Consulting (KNC) undertook an Aboriginal Cultural Heritage Assessment for a proposed upgrade to a section of the New England Highway between Belford and the Golden Highway. The assessment included an archaeological survey and a desktop review of previous archaeological investigations, along with consideration of the overall environment.

The assessment identified five sites that comprised two low-density artefact scatters, one isolated artefact and two moderate-density artefact scatters. One of the sites, discussed below (AHIMS 37-6-0818 (WP 6 Bulga), also includes the duplicates of AHIMS #37-6-0818, AHIMS #37-61594 and AHIMS #37-6-1596.

KNC undertook a test excavation on sites AHMIS #37-6-1600 (USR 39), AHIMS #37-6-0818 (WP 6 Bulga) and AHIMS #37-6-3691 (NEH AFT 2). The first two sites were located across terrace, slope and crest landforms adjacent to an unnamed third-order creek (Test Area 1). A total of 20 test squares measuring 50 cm x 50 cm were excavated. Eight of the squares that had been positioned on terrace landforms and raised areas contained artefacts. At least 20 stone artefacts were recovered but the actual number is not stated in the report. The artefacts were noted to comprise mainly silcrete with smaller quantities of mudstone and quartz. They were mainly flakes and flaked pieces but one multi-directional core was also found. It was suggested that this area was primarily used to maintain and utilise artefacts.

Ten test squares were excavated at AHIMS #37-6-3691 and the soil profile was found to have been heavily disturbed. No artefacts were found.

It was recommended that an application for an AHIP application be submitted to permit collection of surface artefacts across four of the sites. It was further recommended that AHIMS 37-6-0818 (WP 6 (Bulga)) be subjected to further archaeological investigation through a salvage excavation.

### ARROW 2019

Arrow Heritage Solutions undertook a compliance inspection of Aboriginal sites within the Mount Thorley and Warkworth mining complex located approximately 8 km southwest of Singleton and within close proximity to the current study area. The compliance inspection was undertaken to fulfill the requirements of the Aboriginal Heritage Management Plan for the mine. The inspection was undertaken with representatives of the Wattaka Cultural Consultants and Wallangan Cultural Services.

A total of 58 Aboriginal heritage sites were inspected across the Warkworth and Mount Thorley mining sites. The report does not specify details of all the individual sites, with only a few mentioning ‘artefact’ in the description. It is assumed by the

description of the sites' condition that these comprised stone artefact scatters although it is noted there were photographs of four scarred trees. The inspection included noting the condition of the sites and the state of the barricading around the site extents. It was recommended that some of the barricading be updated and ten of the sites be salvaged as they were close to areas for future proposed works.

### AMBS 2019

AMBS was engaged by the Roads and Maritime Service to undertake an ACHA to assess potential impacts associated with the clearance of unexploded ordinances (UXO) in an area for a proposed new road crossing. The new road crossing was proposed to be at Muddies Creek along the Golden Highway. One identified site AHIMS #37-6-3835 had previously been identified in the area and comprised four stone artefacts and one glass artefact on an elevated terrace with associated PAD.

The pedestrian survey relocated AHIMS #37-6-3835 and an additional five artefacts were found. The 11 artefacts comprised three silcrete flakes, one silcrete core, two orange chert cores, one quartz flake, and one glass flake. An additional PAD had also identified to the east of the registered site as it was in an area that is close to a fresh water source and may have only been subjected to minimal land disturbance. Although the report does not label it with a site name it appears to be AHIMS #37-6-3966.

As the registered site AHIMS #37-6-3835, its associated PAD, and the additional PAD, are in areas that were proposed for UXO clearance, the methodology for further archaeological investigation would have to comply with the Department of Defence's (DoD) strict protocol. It was recommended that the DoD personal involved in the excavation undergo an Aboriginal heritage induction training by a qualified archaeologist and a representative from the Aboriginal community. It was also recommended that a qualified archaeologist and representative of the Aboriginal community participate in the identification and recording of any suspected Aboriginal heritage objects.

### JACOBS 2021

Jacobs undertook an Aboriginal Cultural Heritage Assessment report for a proposed gas-fired power station near Kurri Kurri. The assessment included a review of previous archaeological investigations, consideration of the natural environment in relation to availability of natural resources and underlying geology/soils, and a pedestrian survey.

Although it was noted that there were 78 previously recorded Aboriginal sites within 2.5 km of the study area, none had been recorded as being within the area of proposed works. A subsequent survey undertaken with registered Aboriginal parties of the study area found it had been heavily disturbed by past development including the construction of an aluminium smelter. No artefacts were identified during the survey. However, the assessment noted that areas of bulk excavation that would extend into the underlying alluvial deposits and which may be undisturbed could

contain Aboriginal objects. It was therefore recommended that bulk excavation be monitored for any potential cultural material.

### OzArk 2021

OzArk undertook an Aboriginal Cultural Heritage Assessment for a proposed wind farm at Bowmans Creek, approximately 3 km to the northeast of the current study area. The assessment reviewed previous archaeological investigations, considered the natural environment, and undertook a pedestrian survey in conjunction with some of the Aboriginal parties that had registered for the project.

A total of 16 sites were considered during the investigation. Three of them had been previously recorded and thirteen were identified during the survey. The new ones comprised eight artefact scatters with a low–moderate artefact density, and five isolated artefacts. Six of the sites were within the survey boundary and would have been potentially harmed by the project. The seven sites outside the survey boundary were either near the survey boundary or were recorded as a result of survey for project components that are no longer part of the project.

All sites were recorded as being in lowland landforms in areas along Albano Road within the broad Bowmans Creek Valley. All the new sites were associated with the electricity line to the Liddell Power Station. A total of 154 stone artefacts were located, as well as one site with grinding grooves, a previously recorded 'ceremonial ring with artefact scatter, a previously identified PAD, a scarred tree, and a rock shelter with an isolated stone artefact. The stone artefacts comprised mainly flakes and flake pieces but also included 3 backed blades, and four cores.

It was recommended that as many sites as is possible should be avoided in the final design for the proposed works and if sites cannot be avoided, they should be protected by temporary fencing. If the sites will be impacted, then they will have to be salvaged, either through a collection of surface artefacts or limited sub surface archaeological investigation.

### AMBS 2022

AMBS Ecology and Heritage (AMBS) undertook archaeological test excavations for the proposed Mudies Creek Flood Mitigation project on the Golden Highway. A total of 106 50 cm x 50 cm test pits were excavated over 19 days across the project area that included two previously registered AHIMS sites (# 37-6-3966 PAD, and #37-6-3835 surface artefact scatter). The excavations recovered 57 stone artefacts. An additional 18 artefacts were found on the surface which brought the assemblage to 75 stone artefacts.

The assemblage comprised indurated mudstone, tuff, and chert with a small number of glass artefacts, quartz and quartzite. These artefacts were predominately flakes with small numbers of complete flakes, cores, a possible piece of a hammerstone and heart-shattered fragments. Possible heat treatment was also noted on five of the flakes. A number of historic objects including ceramic and building material were

found within the units. it was proposed that this indicated a high level of disturbance and the stone artefacts were not in siu

The site was considered to be of moderate cultural significance to the local Aboriginal community due to its association with the cultural landscape around the Golden Highway and the presence of Mudies Creek. It also had potential evidence of post-contact use of the site by Aboriginal people. It was recommended that no further archaeological test excavation salvage excavations were warranted but an AHIP for the proposed development.

### KUSKIE 2022

Peter Kuskie (South East Archaeology) was engaged to prepare an ACHA for the proposed modification to the existing Wambo Coal Mine. The area of investigation measured approximately 238 ha in size. The southern portion of the area had previously been surveyed for Aboriginal sites and was covered under existing AHIPS. Therefore the pedestrian investigation concentrated on the northern and middle section. This area measured approximately 154 ha.

The aim of the investigation was to identity and record any Aboriginal heritage evidence or cultural values within the investigation area and formulate recommendation for the conservation and management of this evidence in consultation with the local Aboriginal community. Previous investigations had identified 24 Aboriginal sites comprising isolated stone artefacts and stone artefact scatters, and the current survey identified another 14 sites. A total of 64 stone artefacts were recorded during the survey. They comprised mainly of flakes and flake portions but also included a geometric microlith, six cores and a retouched flake.

The main material used to make stone tools was tuff which comprised over 50% of the assemblage, followed by silcrete which represented about a quarter of the artefacts found. There were also a couple of pieces of petrified wood, and an artefact made from volcanic material. It was suggested that the tuff was probably procured from a relatively local source such as a colluvial or alluvial source such as the Hunter River and associated terrace deposits.

The results of the survey suggested that the potential for sub-surface deposits of artefacts that may be of high research value to occur was considered low, apart from an area comprising low gradient ground within close proximity to Wambo Creek. It was recommended that an application for an AHIP be submitted to include the northern and central portions of the study area.

### UMWELT 2022

Umwelt undertook an Aboriginal Cultural Heritage Assessment as part of the Environmental Impact Statement (EIS) for the Kurri Kurri Lateral Pipeline that will provide a gas supply to the Hunter Power Project. The investigation included a review of previous archaeological investigations, consideration of the underlying geology,

soil and landform, and pedestrian surveys undertaken in conjunction with representatives from the Aboriginal community.

A total of 162 Aboriginal sites were identified on AHIMS as being within the project footprint. The majority were associated with stone artefacts (87%) including individual artefacts, stone artefact scatters, PADs and grinding grooves. PADs without any association with surface artefacts were also identified (8.6%).

It was noted that previous archaeological excavations and oral history records had found that Hexham Swamp, the Wallis Creek floodplain, and Wentworth Swamp were key areas by which Aboriginal people camped repeatedly and/or for longer duration. It was predicted that sites are most likely to occur in close proximity to main water courses and will most likely be on elevated landforms and/or near-level lower slopes with direct access to these water courses. It was also suggested that stone artefacts would most likely to have been made from silcrete, mudstone or tuff, with tuff expected to be most common for sites associated with Hexham Swamp and Wallis Creek. Artefact assemblages in sites bordering swamps/wetlands would be likely places that could include evidence of manufacture and/or discard of backed artefacts.

A pedestrian survey was carried out during the investigation to identify new sites and relocate new ones that were mapped as being within in close proximity to the study area. A total of 13 previously identified sites were identified as being with in the study area, and nine new sites were identified. The sites comprised isolated stone artefacts and stone artefact scatters from a variety of materials, including silcrete, mudstone and quartz. Areas of PADs were also identified.

It was recommended that an Aboriginal cultural heritage management plan be developed in consultation with the RAPs. This would include the protection of three of the sites by fencing during works, and that the sites that would be directly impacted be subject to collection and/or excavation.

### WATT 2023

Hugh Watt undertook a spatial analysis of raw material sources and ground-edge artefacts (GEAs) in the Hunter Valley also which considered the transition Aboriginal people made from stone to metal hatchets. The investigation was for his Masters thesis and he examined 140 GEAs found throughout the Hunter Valley that included 129 ground-edged hatchets, six Bulga knives, four hammer/pounders, and an unusual Polynesian style axe from Singleton. The GEAs had been analysed as part of wider joint research project led by Val Attenbrow from the Australian Museum and Peter Grave from the University of New England. The project had used non-destructive portable X-Ray Fluorescence (pXRF) to chemically analyse GEAs and compare them to over 300 geological samples from within Australia, but primarily within the Sydney Basin.

Watt outlined that the pXRF analysis provided matches for 65 GEAs from 25 find-spots to 31 geological sources. Fifty-two (80%) of the 65 GEAs were matched to non-local sources. Sources within the Hunter Valley matched rock at Merriwa and Glen Creek including basalts, dolerites and ignimbrite/welded tuff. The non-local sources were from the Central Coast region, Nepean River in the Sydney region, and Belmont Park, Kiama, and Five Islands in the South Coast region. These included a wider range of rock types than the local sources, such as basalts, meta-basalts, dolerite, latite, hornfels, quartzites, ignimbrites (rhyodacite), porphyritic volcanics and fine-grained volcanics. Two GEAs were also tentatively matched much further away, one to Mt Isa over 2,000 km to the north, and one to Mt William over 1,000 km to the south. The results demonstrated a vast trade/exchange network, especially between the Aboriginal people from the Hunter Valley and the Darkinjung language group on the Central Coast, and the Dharug language group in the Sydney area.

Watt noted that metal axes were initially introduced by the Macassans, from Sulawesi in Indonesia to Aboriginal people living in the far north of Australia at least from the 1500s. In 1788 hundreds more were brought over by members of the First Fleet to be used as a trading currency. These axes made their way into the Hunter Valley by 1802 and some were also noted to have been traded into the area by coastal people in exchange for possum skins. As Aboriginal people became aware of the value of metal hatchets over their existing ground-edge stone hatchets, both as a tool and as an item of exchange between tribes, they began to manufacture their own variations. For example, they used their own hafting material such as resin from grass plants or Eucalyptus trees and wood from available plants 'great amount of ingenuity, resource and skill'.

### Summary of previous Archaeological work

There have been many archaeological investigations for research and consulting projects undertaken within the Hunter Valley region, including large sections within the current study area. In general, the investigations have found that high densities of artefacts have been primarily found on lower slopes, alluvial floodplains and on middle to upper ridges. These areas have also been close to major rivers, such as the Hunter River, or higher-order creeks, as well as wetland and swamp environments. Although there are some sites that have been shown to contain evidence of occupation into the Pleistocene period (>10,000 ya), the majority of sites that have been confidently dated are around 5,000 years old. A vast array of artefactual tool types has been recovered from these sites that reflect the diversity of activities that had once taken place. These implements/tools were made from a variety of high-quality stone material with a preference for fine-grained tuff. The stone was mainly sourced from locally available cobble sources, but some also came bedrock and cobble sources from further afield through direct acquisition or trade and exchange as noted by Watt (2023).

Pioneering archaeological investigations undertaken by Fred McCarthy around Singleton in the early 1940s retrieved thousands of artefacts eroding from the

terrace above the Hunter River in Singleton that included scrapers, burins, microliths and backed blades – particularly Bondi points. These were mainly made from chert (probably tuff) but also included jasper, quartzite, porphyry and igneous rocks. A number of artefacts made from European glass into scrapers and pierces, showed the site was still being used at the onset of European intrusion into the area. Some twenty years later David Moore undertook a series of excavations in rockshelters at Milbrodale, Sandy Hollow and Bobadeen. Thousands of artefacts including complete tools such as those found by McCarthy were unearthed, along with tools made from animal bones. Carbon dates taken from the lowest occupation level at Bobadeen dated it to approximately 5,000 ya.

Investigations over the last twenty-five years have mainly been carried out in response to mining and infrastructure projects. The archaeological material retrieved from sites have mostly been isolated stone artefacts or stone artefact scatters on the surface, sometimes with associated areas of PAD. The sites are often in highly disturbed areas with limited subsurface potential. However some less disturbed areas on elevated terraces close to waterways have resulted in the identification of sites with a high concentration of artefacts. This is particularly evident in the comprehensive archaeological excavations and lithic analysis work that were undertaken by Kuskie and Kamminga (2000) following on from Baker's (1996) initial investigations at Black Hill and Wood Gully within the central lowlands. Kuskie and Kamminga recovered over 20,000 stone artefacts including backed blades, eloueras, Worimi cleavers, and grindstones. The study area was in close proximity to Hexham Wetlands and was on a landform comprised of undulating hills and rises. They also identified that the area had a concentration of microblade production. Use wear and residue analysis showed that some of the stone tools were used to process plant material.

As also pointed out by Kuskie (2010) the focus areas for previous Aboriginal occupation may have largely been confined to elevated areas fringing the watercourses and resource zones (eg. on elevated, well-drained flats/terraces, low gradient simple slopes and low gradient spur crests) which perhaps varied over time in terms of their suitability for occupation. However, occupation may have also occurred periodically on low-elevation flats.

## 4.7 Predictive Model

Based on the results of previous archaeological investigations within the wider region, a number of predictions regarding Aboriginal use of the area can be made. These predictions focus on the nature, extent and integrity of the remaining evidence.

The landscape characteristics of the area influence the prediction of the nature of potential sites within the landscape itself. Disturbance is the predominant factor determining whether or not artefacts are likely to be identified within a landscape.

Surface sites are likely to have been impacted by pedestrian activity, vegetation clearance, the construction of water drainage and structures within the area over the historic period. Natural actions such as erosion and bioturbation are likely to have also impacted not only the surface, but also at least the upper levels of subsurface archaeological deposits. Whilst these actions may impact the integrity of stratigraphy within the deposit, this does not necessarily mean associated archaeological objects will also be disturbed.

In general, Aboriginal use of an area is based on a number of factors, such as:

- Proximity to permanent water sources – generally permanent or areas of repeat habitation are located within approximately 200m of permanent water;
- Proximity to ephemeral water sources – generally sites near ephemeral water sources were utilised for one-off occupation;
- Ease of travel – ridgelines were often utilised for travel during subsistence activities; and
- The local relief – flatter, more level areas were more likely to be utilised for long term or repeat habitation sites than areas of greater relief, especially if the slopes are at a distance from water.

### 4.7.1 Application to Study Area

#### Stone Artefacts

Stone artefacts can be identified on the ground surface or within subsurface deposits. Generally, artefact concentrations are representative of debris from knapping activities, which includes flakes, flake fragments, cores, and pieces likely to have been knapped but with no or inconclusive diagnostic features, referred to as flaked pieces. Modified artefacts can also be identified, including backed artefacts, scrapers, or edge ground axes, although these are generally a smaller proportion of the artefact assemblage. During excavation, very small debris (~3-5mm) can be identified within sieved material, and is referred to as debitage. This is indicative of *in situ* knapping activities.

As the detection of stone artefacts relies on surface visibility, factors such as vegetation cover can prevent their identification. Conversely, areas of exposure can assist in their identification. Stone artefacts have been identified throughout the study area during previous academic research and consultancy projects. It is highly probable that more stone artefacts, either in isolation or in concentrations, may be identified within the study area during this current assessment; although they will likely be found in a disturbed context.

#### Quarry and Procurement

Exposures of stone which can be exploited for the production of lithics are referred to as quarries or procurement sites. Quarries generally have evidence of extraction

visible, while procurement sites can be inferred through the presence of artefactual material made from raw material sources present within the area.

It is possible that areas of exposures containing gravels and cobbles may have been exploited in the past Aboriginal people. However no specific quarries have been identified and/or registered as a site during previous investigations the study area and immediate surrounds.

### MIDDENS

Middens are concentrations of shell, and may also contain stone artefacts, bone and sometimes human burials. These sites are generally recorded along coastal areas. Middens are formed through the exploitation of locally available species by humans for resources, and accumulation of the shell material within a specific location. Middens can range in size from small, discrete deposits, to deposits covering a large area.

Generally, middens reflect the species available in the local area. In estuarine regions, estuarine species will dominate the composition of the midden, while around headlands, rock platform species tend to dominate. No shell middens have been registered within the study area. Given the distance of the study area from the coast, middens containing saltwater species are considered unlikely to occur within the area. However, it has been noted by Wood (1972:44) that 'Aborigines left heaps of mussel shells on the banks of Muscle Brook, hence its name and that of the town Muswellbrook'. So, although unlikely, there may be remnants of freshwater species in proximity to watercourses.

### BURIALS

Aboriginal people across Australia utilised a range of burial forms, which depended on the customs of the individual tribes. Common burial practices included inhumation, cremation, desiccation and exposure. Burials are known to occur within sandy contexts in the wider region. These are generally found within coastal Holocene sand bodies, and generally are not identified during field survey as there is usually minimal surface expression of this type of site.

To date, there are no records of burials being identified within the specific study area, but this does not preclude burials from occurring. There are alluvial soils within sections of the study area that may be quite deep with a high sand content. However, given the extensive land disturbance and alternative areas which may have been more attractive for locating burials, it is considered unlikely that evidence of subsurface burials may still remain, but it is a possibility.

### ROCK SHELTERS

Rock shelters are formed by rock overhangs which would have provided shelter to Aboriginal people in the past. Often, evidence of this occupation can be found in the form of art and/or artefacts. Shell, midden material, grinding grooves, pictographs (rock engravings), artworks including stencils and paintings, and potential archaeological deposits (PAD) are common features of rock shelter sites.

Previous investigations within portions of the study area and surrounds did not identify rock shelters and it is unlikely this site type will occur in the study area.

### Grinding Grooves

Grinding grooves are formed on sandstone exposures through the creation and maintenance of ground edge tools, such as axes and spears. Usually, stone was ground to form a sharp edge, although bone and shell were also ground to create sharp points.

Generally, fine grained sandstone was favoured for these maintenance activities, and the presence of a water source nearby or overflowing the sandstone was also favoured. Grinding grooves range from individual examples through to hundreds of grooves within an area, sometimes arranged in a specific pattern. Horizontal sandstone was generally preferred, although there are examples of vertical grooves.

Previous investigations within portions of the study area have identified two grinding groove sites. It is possible that this site type may occur in the study area.

### Scarred and Carved Trees

Scarred and carved trees are created during the removal of bark from a tree for a range of reasons, both domestic and ceremonial. This type of site can be identified within areas containing trees of the correct species and appropriate age. Deliberately scarred trees can be difficult to differentiate from naturally occurring damage to trees, and specific criteria must be considered when assessing a scar for a cultural origin.

Previous investigations within portions of the study area and surrounds did not identify culturally modified trees. It is unlikely this site type is present within the study area given the extensive vegetation clearance and land use history.

### Ceremonial Sites

Specific places were used for ritual and ceremonial purposes, including initiation and burial practices. Secret rituals were also undertaken at specific places by specific individuals, such as at water holes and by clever men.

The landscape itself was also considered to hold significance to Aboriginal people, and the understanding of this is referred to as a sacred geography. This includes natural features which were associated with spirits or creation beings. The meaning attributed to the landscape provided Aboriginal people with legitimacy regarding their role as guardians of the places which had been created by the spiritual ancestors (Boot 2002).

Many areas within the Hunter Valley region in NSW are considered to be sacred to the original inhabitants. However, there are no known recorded areas within the study area, although this does not preclude these values from existing within this location.

### CONTACT SITES

Contact sites contain evidence of Aboriginal occupation concurrent with initial colonisers in an area. This could include evidence such as flaked artefacts formed on glass, or burials containing non-Aboriginal grave goods. Often Aboriginal camps would form around newly built towns, allowing for employment (or exploitation) of the Aboriginal people by the colonists, and also for trade to exist between the two communities. Contact sites can also occur around Aboriginal mission sites, where Aboriginal children were taken from their families to raise in the European manner. Families often camped around the mission boundaries to try to catch a glimpse of their children.

At least one contact site was recorded within the study area, with glass flakes associated with an artefact scatter (37-6-3835). It is possible that additional contact sites may be present within the study area.

# 5.0 Field Work

## 5.1 Sampling Strategy

A sampling strategy was developed and provided to the Registered Aboriginal Parties (RAPs) as part of the consultation process completed for the ACHA. The strategy included assessment of all landforms within the study area that have the potential to be impacted by the proposed development. Areas considered likely to have archaeological potential were closely scrutinised, although the entire study area was considered.

The sampling strategy included assessment of the entirety of the study area due to the nature of the development proposal, in order to provide an accurate assessment of the study area in relation to the proposed impacts.

## 5.2 Site Inspection

A site survey was undertaken over two weeks from 13 November 2023 to the 24 November 2023 by Apex Archaeology in conjunction with the RAPs for the study area as part of the assessment under the Code of Practice and ACHCRs.

- Leigh Bate, Apex Archaeology
- David O'Brien, Apex Archaeology
- Kevin Sampson, Cacatua Culture Consultants
- Les Atkinson, Wonaruah Local Aboriginal Land Council
- Shai-lee Braneley, Wonnarua Nation Aboriginal Corporation

## 5.3 Survey Coverage

The survey was conducted on foot for the purposes of discovering Aboriginal objects within the study area, including areas considered to have potential for subsurface objects to be present. The survey was undertaken in accordance with the sampling strategy prepared for the project.

The study area was surveyed in one linear transect along the entirety of the proposed route from the southern end (Ausgrid's Kurri Kurri STS at Hebdon Greta) to the northern end (Ausgrid's Muswellbrook STS). Areas of extreme disturbance (ie road verge location along the Hunter Expressway, New England Highway and Mitchell Line of Road) were not surveyed by pedestrian transect but rather driven as vehicular reconnaissance. This was agreed with all members of the survey team for each of these sections.

Further, areas of severe vegetation growth or swampy areas were not traversed due to inaccessibility. Landform elements have been described; however significant disturbance relating to the original sub-transmission line easement construction, subsequent ongoing easement maintenance and vegetation clearance/control, along with mining related impacts, viticulture and agriculture have modified the original land surface.

Each participant was responsible for inspecting a 2m wide portion of the transect walked. This meant that on each pass an area covering 8m would be observed for archaeological material by the survey team.

Due to the linear nature and high level of disturbance within much of the study area, survey units were based on an arbitrary assessment of the survey transect within the study area. Survey units are discussed following and depicted in related mapping.

<table>
<tr><td colspan="2">Survey Unit:</td><td>1</td><td>Survey Area:</td><td>Kurri STS</td></tr>
<tr><td colspan="2">Number of Survey Participants:</td><td>4</td><td></td><td></td></tr>
<tr><td>Landform Element:</td><td colspan="2">Flat/Modified/Disturbed</td><td>Distance to Watercourse:</td><td>1.5km (Swamp Creek)</td></tr>
<tr><td>Slope:</td><td colspan="2">Level-very gentle (<1.45°)</td><td>Vegetation:</td><td>Cleared, Grass</td></tr>
<tr><td>Detection Limiting Factors:</td><td colspan="2">Grass, Gravels, Leaf Litter</td><td>Ground Disturbance:</td><td>High</td></tr>
<tr><td>Survey Unit Length:</td><td colspan="2">560m</td><td>Ground Surface Visibility:</td><td>35%</td></tr>
<tr><td>Total Area surveyed</td><td colspan="2">4480m²</td><td>Arch Visibility:</td><td><1%</td></tr>
<tr><td colspan="3"> </td><td colspan="2"> </td></tr>
<tr><td colspan="3">Plate 4: Looking north over upgrade area option A (Kurri Kurri STS).</td><td colspan="2">Plate 5: Looking east over upgrade area option A (Kurri Kurri STS).</td></tr>
<tr><td colspan="3"> </td><td colspan="2"> </td></tr>
<tr><td colspan="3">Plate 6: Looking south over upgrade area option B (Kurri Kurri STS).</td><td colspan="2">Plate 7: Looking south west at the southern end of the STL route (Kurri Kurri STS).</td></tr>
<tr><td colspan="3">AHIMS Sites within STL Study Area:</td><td colspan="2">37-6-1358</td></tr>
<tr><td colspan="3">Newly Recorded Sites:</td><td colspan="2">None</td></tr>
</table>

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Projection:
MGA Zone 56 (GDA 94)
Base Map:
Near Maps 2024
Image Date: 23/10/2023
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Figure 7: Survey transect and AHIMS sites (Kurri STS).

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| **Survey Unit:** | 2 | **Survey Area:** | Mcleod Road, Loxford |
| **Number of Survey Participants:** | 4 | | |
| **Landform Element:** | Flat/Modified/Disturbed | **Distance to Watercourse:** | 1.2km (Swamp Creek) |
| **Slope:** | Level-very gentle (<1.45°) | **Vegetation:** | Cleared, Shrubs |
| **Detection Limiting Factors:** | Grass, Gravels, Leaf Litter | **Ground Disturbance:** | High |
| **Survey Unit Length:** | 896m | **Ground Surface Visibility:** | 45% |
| **Total Area surveyed** | 7168m² | **Archaeological Visibility:** | <1% |

Plate 8: Looking east over highly modified landscape adjacent the Hunter Expressway within STL route (sed pond/storm water swale.

Plate 9: Looking north west along access track within STL easement.

Plate 10: Looking north west along STL easement and access track.

Plate 11: Looking north west along STL easement.

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| **AHIMS Sites within STL Study Area:** | 37-6-1355 |
| **Newly Recorded Sites:** | None |

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Figure 8: Survey transect and AHIMS sites.

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| **Survey Unit:** | 3 | **Survey Area:** | Scales Road, Loxford |
| **Number of Survey Participants:** | 4 | | |
| **Landform Element:** | Gentle Simple Slope | **Distance to Watercourse:** | 86m (Swamp Creek) |
| **Slope:** | Gentle (>1.45°-5.45°) | **Vegetation:** | Cleared, Grass, Regrowth |
| **Detection Limiting Factors:** | Bitumen, Gravel, Shrubs, Leaf Litter | **Ground Disturbance:** | High |
| **Survey Unit Length:** | 1467m | **Ground Surface Visibility:** | 25% |
| **Total Area surveyed** | 11,736m² | **Archaeological Visibility:** | <5% |

Plate 12: Looking north west upslope along Scales Road within the STL easement.

Plate 13: Looking south east along Scales Road within the STL easement.

Plate 14: Looking north west along STL route within existing easement.

Plate 15: Looking north west along STL route within existing easement.

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| **AHIMS Sites within STL Study Area:** | 37-6-1645, 37-6-1360, 37-6-2007 & 37-6-1644, |
| **Newly Recorded Sites:** | None |

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| **Survey Unit:** | 4 | **Survey Area:** | Back Waterholes Creek |
| **Number of Survey Participants:** | 4 | | |
| **Landform Element:** | Flat/Modified/Disturbed | **Distance to Watercourse:** | 4m |
| **Slope:** | Level-very gentle (<1.45°) | **Vegetation:** | Cleared, Grass |
| **Detection Limiting Factors:** | Grass, Gravels, Imported Stone, Leaf Litter | **Ground Disturbance:** | High |
| **Survey Unit Length:** | 626m | **Ground Surface Visibility:** | 20% |
| **Total Area surveyed** | 5008m² | **Archaeological Visibility:** | <5% |

Plate 16: Looking north west along STL easement.

Plate 17: Looking north west across Black Waterholes Creek (Highly Modified/Armoured banks).

Plate 18: Looking south east along STL easement.

Plate 19: Coordinate location of AHIMS site 37-6-2009 (Pink Flag).

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| **AHIMS Sites within STL Study Area:** | 37-6-1343, 37-6-2009 & 37-6-1363 |
| **Newly Recorded Sites:** | None |

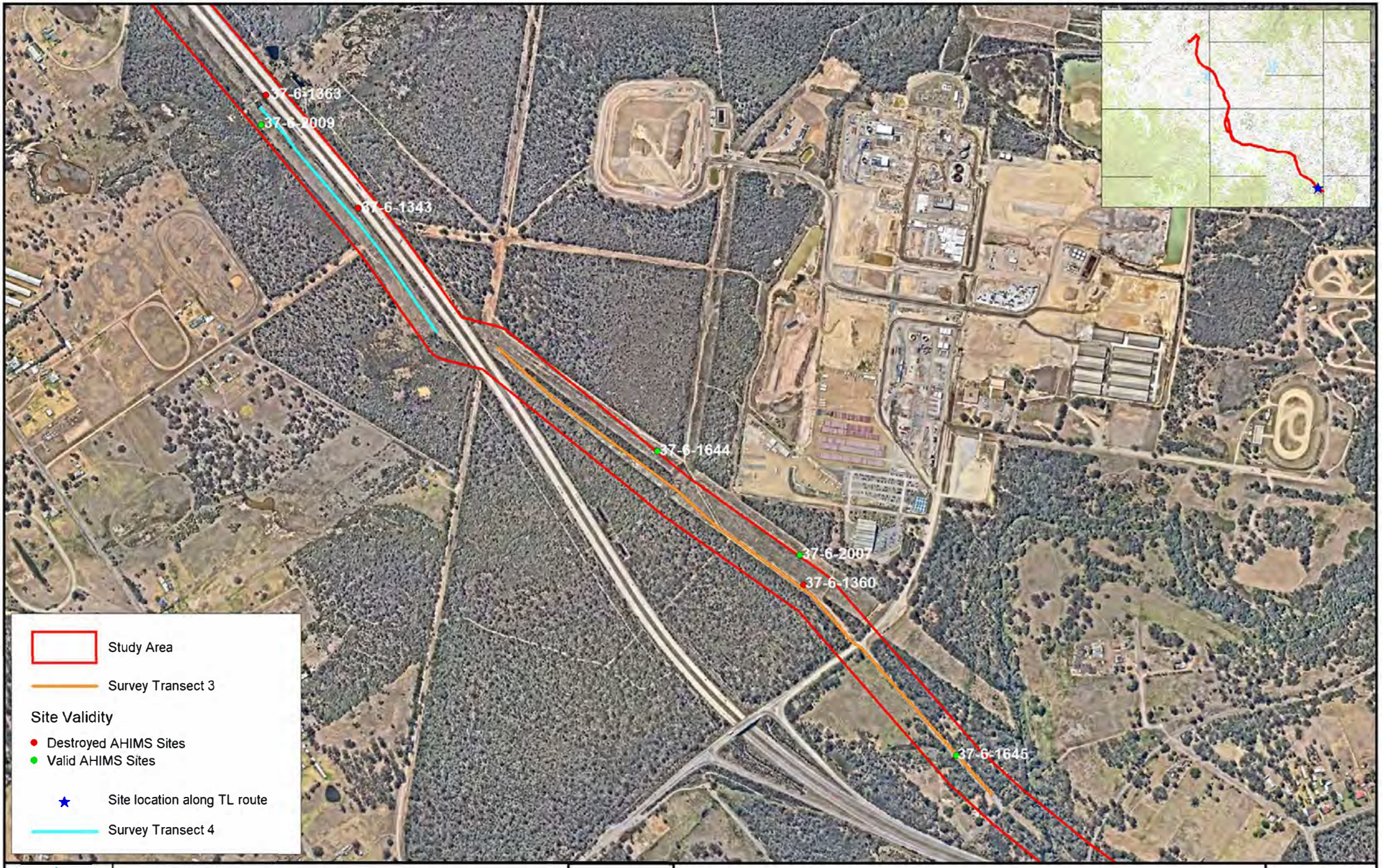


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Figure 9: Survey transects and AHIMS sites.

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|---|---|---|---|
| **Survey Unit:** | 5 | **Survey Area:** | Keinbah |
| **Number of Survey Participants:** | 4 | | |
| **Landform Element:** | Gentle Simple Slope, Rolling Hills, Creek Bank | **Distance to Watercourse:** | Intersect STL easement (Sawyers Gully) |
| **Slope:** | Gentle (>1.45°-5.45°) | **Vegetation:** | Cleared, Grass |
| **Detection Limiting Factors:** | Grass, Gravels, Leaf Litter | **Ground Disturbance:** | Low to Moderate |
| **Survey Unit Length:** | 3677m | **Ground Surface Visibility:** | 25% |
| **Total Area surveyed** | 29,416m² | **Archaeological Visibility:** | 20% |

Plate 20: Looking north west along STL easement from Sawyers Gully creek.

Plate 21: Looking north west over AHIMS site 37-6-2012 (pink flag).

Plate 22: Looking north west along STL easement within moderate zone of archaeological sub-surface potential.

Plate 23: Looking north west along STL easement.

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| **AHIMS Sites within STL Study Area:** | 37-6-1346, 37-6-2010, 37-6-2011, 37-6-2012, 37-6-2935, 37-6-2013, 37-6-2014, 37-6-2015, 37-6-2016 & 37-6-2017 |
| **Newly Recorded Sites:** | None |

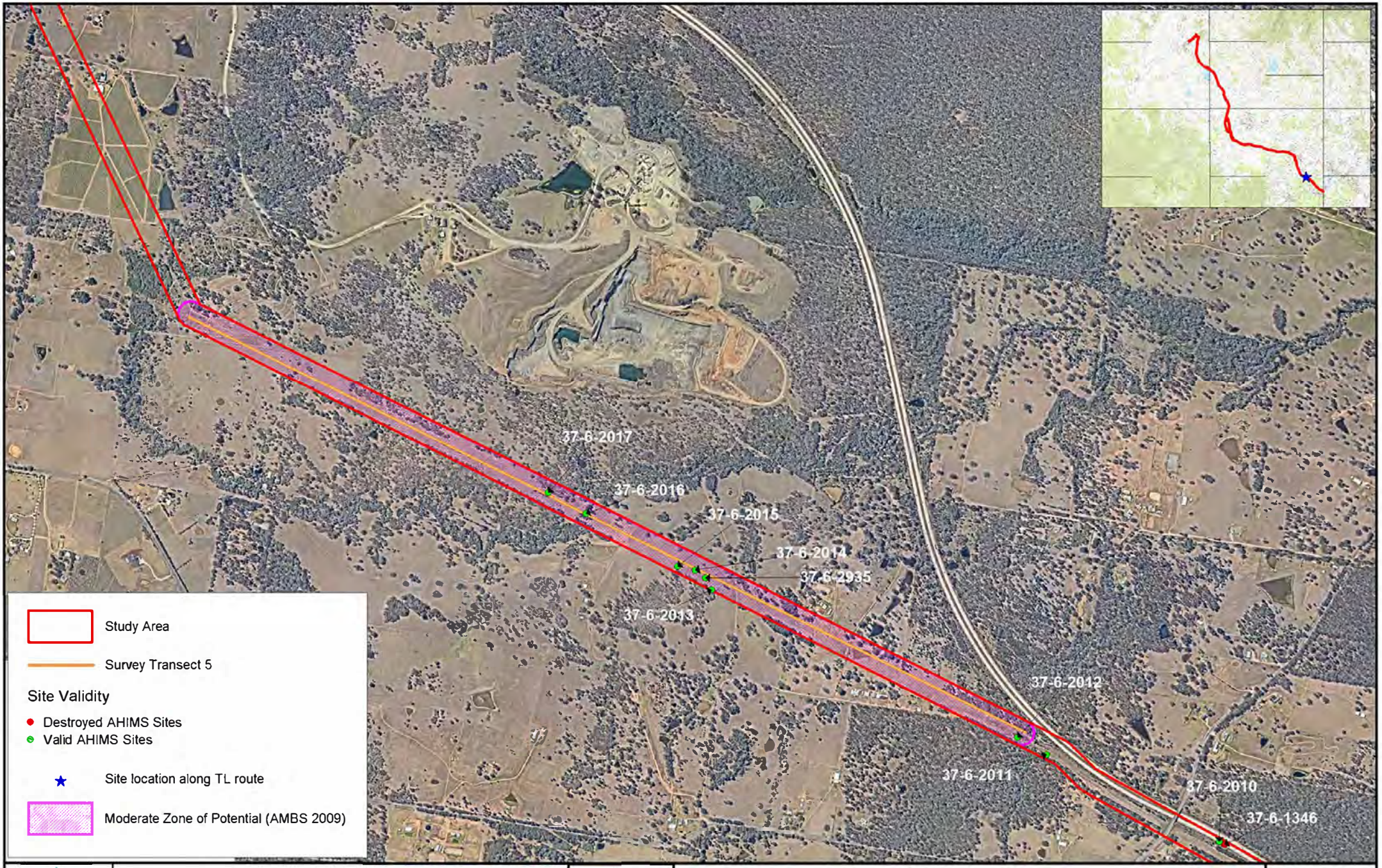


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Figure 10: Survey transect and AHIMS sites.

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| **Survey Unit:** | 6 | **Survey Area:** | Keinbah |
| **Number of Survey Participants:** | 4 | | |
| **Landform Element:** | Gentle Simple Slope Modified/Disturbed | **Distance to Watercourse:** | 1.8km (Anvil Creek) |
| **Slope:** | Gentle (>1.45°-5.45°) | **Vegetation:** | Cleared, Vineyard |
| **Detection Limiting Factors:** | Grass, Gravels, Leaf Litter | **Ground Disturbance:** | Moderate to High |
| **Survey Unit Length:** | 2022m | **Ground Surface Visibility:** | 20% |
| **Total Area surveyed** | 16,176m² | **Archaeological Visibility:** | 5% |

Plate 24: Looking south east along STL easement.

Plate 25: Looking north west through De Luliis Vineyard.

Plate 26: Looking north west along STL easement.

Plate 27: Looking north west along STL easement.

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| **AHIMS Sites within STL Study Area:** | None |
| **Newly Recorded Sites:** | None |

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Figure 11: Survey transect.

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| **Survey Unit:** | 7 | **Survey Area:** | Camp Road, Rothbury |
| **Number of Survey Participants:** | 4 | | |
| **Landform Element:** | Flat, Gentle Simple Slope, Modified/Disturbed | **Distance to Watercourse:** | 480m (Sawyers Creek) |
| **Slope:** | Gentle (>1.45°-5.45°) | **Vegetation:** | Cleared, Grass |
| **Detection Limiting Factors:** | Grass, Gravels, Leaf litter | **Ground Disturbance:** | High |
| **Survey Unit Length:** | 1491m | **Ground Surface Visibility:** | 30% |
| **Total Area surveyed** | 11,928m² | **Archaeological Visibility:** | 10% |

Plate 28: Looking north west along STL easement.

Plate 29: Looking north west along STL easement.

Plate 30: Looking north west along STL easement.

Plate 31: Looking north across Camp Road crossing point of TL.

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| **AHIMS Sites within STL Study Area:** | 37-6-1328 & 37-6-1329 |
| **Newly Recorded Sites:** | CR-AS-01, CR-AS-02 & CR-IF-01 |

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Figure 12: Survey transect, Newly Identified Aboriginal Sites and AHIMS sites.

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|---|---|---|---|
| **Survey Unit:** | 8 | **Survey Area:** | Greta |
| **Number of Survey Participants:** | 4 | | |
| **Landform Element:** | Flat, Gentle Simple Slope, Modified, Disturbed | **Distance to Watercourse:** | 1km (Sawyers Creek) |
| **Slope:** | Gentle (>1.45°-5.45°) | **Vegetation:** | Cleared, Grass |
| **Detection Limiting Factors:** | Grass, Gravels, Leaf Litter | **Ground Disturbance:** | High |
| **Survey Unit Length:** | 2207m | **Ground Surface Visibility:** | 35% |
| **Total Area surveyed** | 17,656m² | **Archaeological Visibility:** | 15% |

Plate 32: Looking north along STL easement. Exposed telecommunications access point.

Plate 33: Looking north along STL easement.

Plate 34: Looking north along STL easement.

Plate 35: Looking north along STL easement towards Tuckers Lane.

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| **AHIMS Sites within STL Study Area:** | 37-6-1308 & 37-6-1309 |
| **Newly Recorded Sites:** | CR-IF-02 & CR-AS-03 |

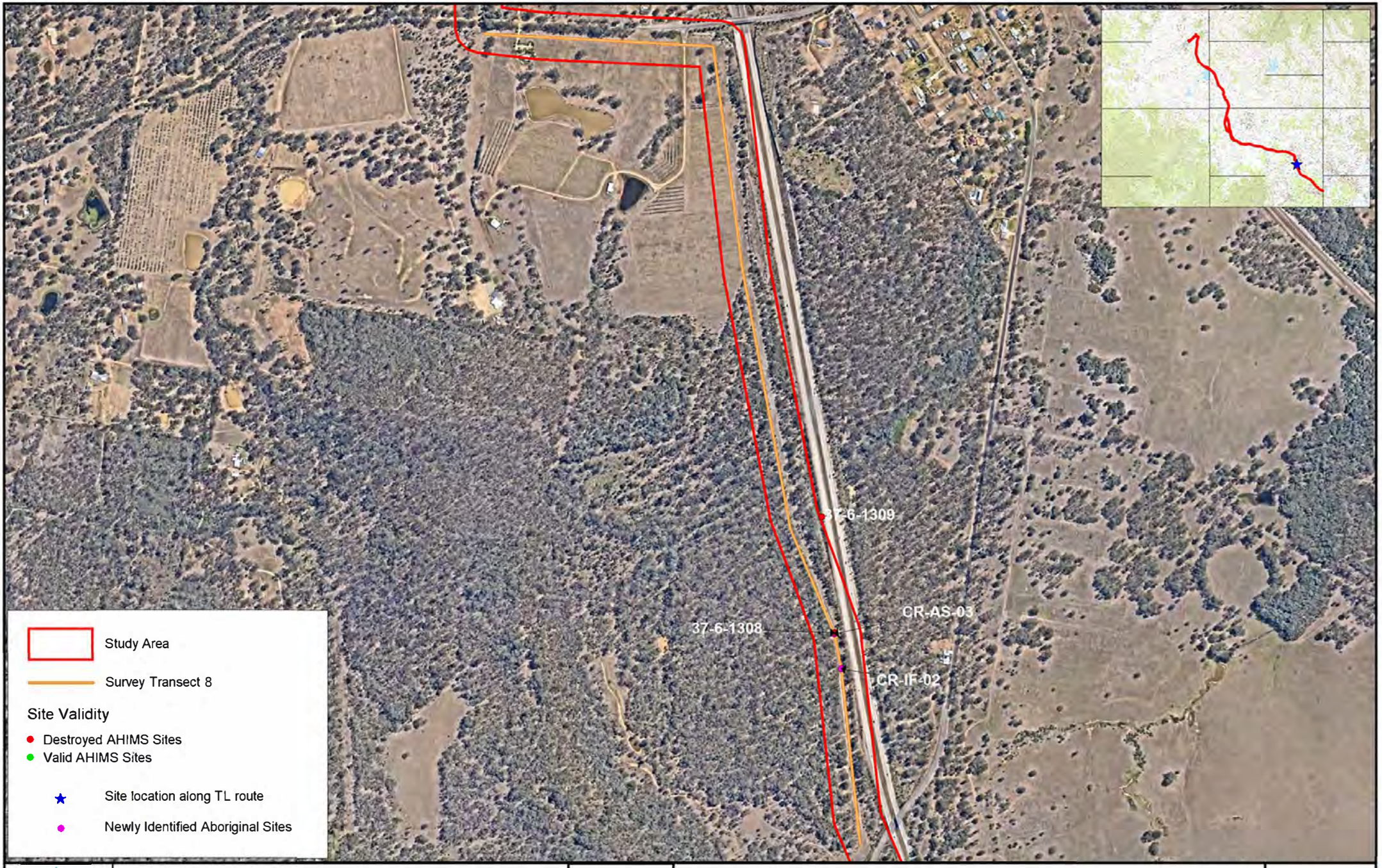


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Figure 13: Survey transect, Newly Identified Aboriginal Sites and AHIMS sites.

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|---|---|---|---|
| **Survey Unit:** | 9 | **Survey Area:** | Greta |
| **Number of Survey Participants:** | 4 | | |
| **Landform Element:** | Flat, Gentle Simple Slope, Modified/Disturbed, Creek Bank | **Distance to Watercourse:** | Intersects STL easement (Sawyers Creek) |
| **Slope:** | Gentle (>1.45°-5.45°) | **Vegetation:** | Cleared, Grass |
| **Detection Limiting Factors:** | Grass, Gravels, Leaf Litter | **Ground Disturbance:** | High |
| **Survey Unit Length:** | 3224m | **Ground Surface Visibility:** | 40% |
| **Total Area surveyed** | 25,792m² | **Archaeological Visibility:** | 10% |

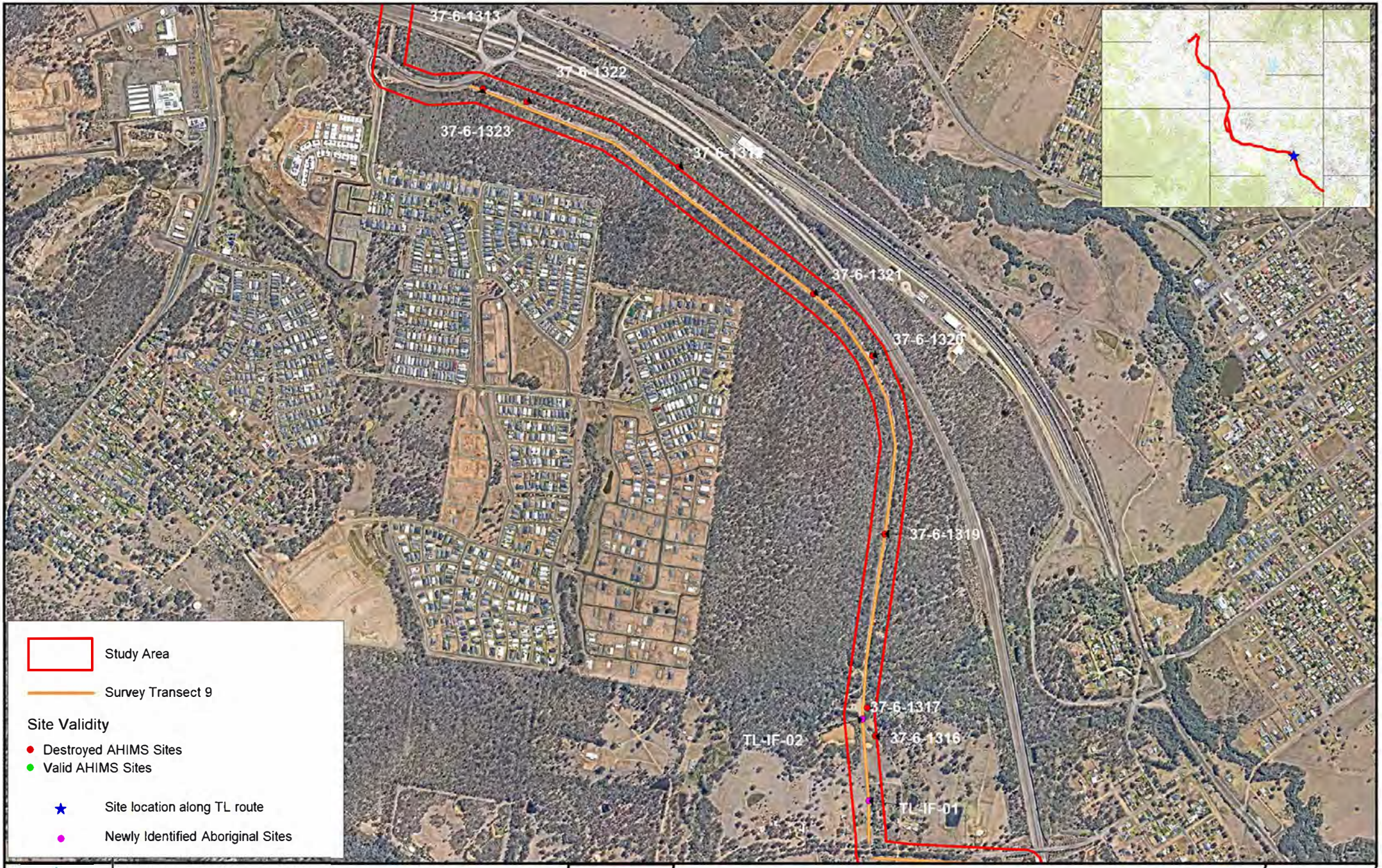
Plate 36: Looking north along STL easement.

Plate 37: Looking north along STL easement Sawyers Creek crossing point.

Plate 38: Looking south along STL easement showing highly eroded section.

Plate 39: Looking at STL crossing point over the Hunter Expressway.

| | |
|---|---|
| **AHIMS Sites within STL Study Area:** | 37-6-1316, 37-6-1316, 7-6-1317, 37-6-1319,37-6-1321, 37-6-1312, 37-6-1322 & 37-6-1323 |
| **Newly Recorded Sites:** | TL-IF-01 & TL-IF-02 |




PO Box 236
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0 0.65 1.3
kilometres

Projection:
MGA Zone 56 (GDA 94)
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Figure 14: Survey transect, AHIMS sites and newly identified Aboriginal sites.

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|---|---|---|---|
| **Survey Unit:** | 10 | **Survey Area:** | Branxton |
| **Number of Survey Participants:** | 4 | | |
| **Landform Element:** | Flat, Modified/Disturbed | **Distance to Watercourse:** | 460m (Anvil Creek) |
| **Slope:** | Gentle (>1.45°-5.45°) | **Vegetation:** | Cleared, Grass |
| **Detection Limiting Factors:** | Grass, Gravels, Leaf Litter, Ballast | **Ground Disturbance:** | High |
| **Survey Unit Length:** | 1525m | **Ground Surface Visibility:** | 25% |
| **Total Area surveyed** | 12,200m² | **Archaeological Visibility:** | 5% |

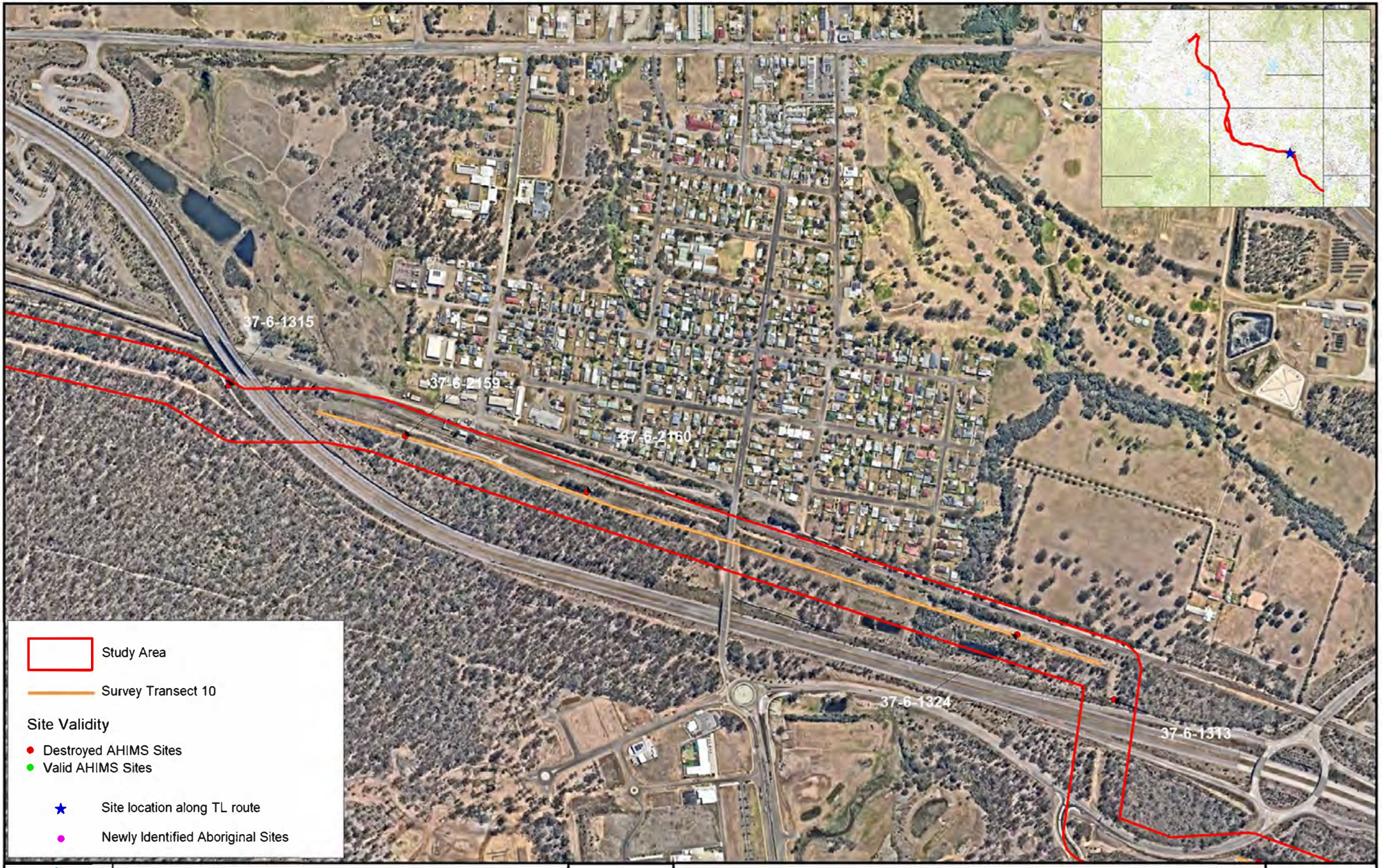
Plate 40: Looking north along the STL easement.

Plate 41: Looking north along the STL easement (area severely modified).

Plate 42:Looking north along access track within STL easement.

Plate 43: Looking north towards STL crossing point over the Main Northern Railway corridor.

| | |
|---|---|
| **AHIMS Sites within STL Study Area:** | 37-6-1313, 37-6-1324, 37-6-2160, 37-6-2159 & 37-6-1315 |
| **Newly Recorded Sites:** | None |

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metres

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Figure 15: Survey transect, AHIMS sites and newly identified Aboriginal sites.

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|---|---|---|---|
| **Survey Unit:** | 11 | **Survey Area:** | Black Creek |
| **Number of Survey Participants:** | 4 | | |
| **Landform Element:** | Flat, Gentle Simple Slope, Modified/Disturbed, Creek Bank | **Distance to Watercourse:** | Intersects STL easement (Black Creek) |
| **Slope:** | Gentle (>1.45°-5.45°) | **Vegetation:** | Cleared, Grass |
| **Detection Limiting Factors:** | Grass, Gravels, Leaf Litter | **Ground Disturbance:** | High |
| **Survey Unit Length:** | 1088m | **Ground Surface Visibility:** | 40% |
| **Total Area surveyed** | 8704m² | **Archaeological Visibility:** | 20% |

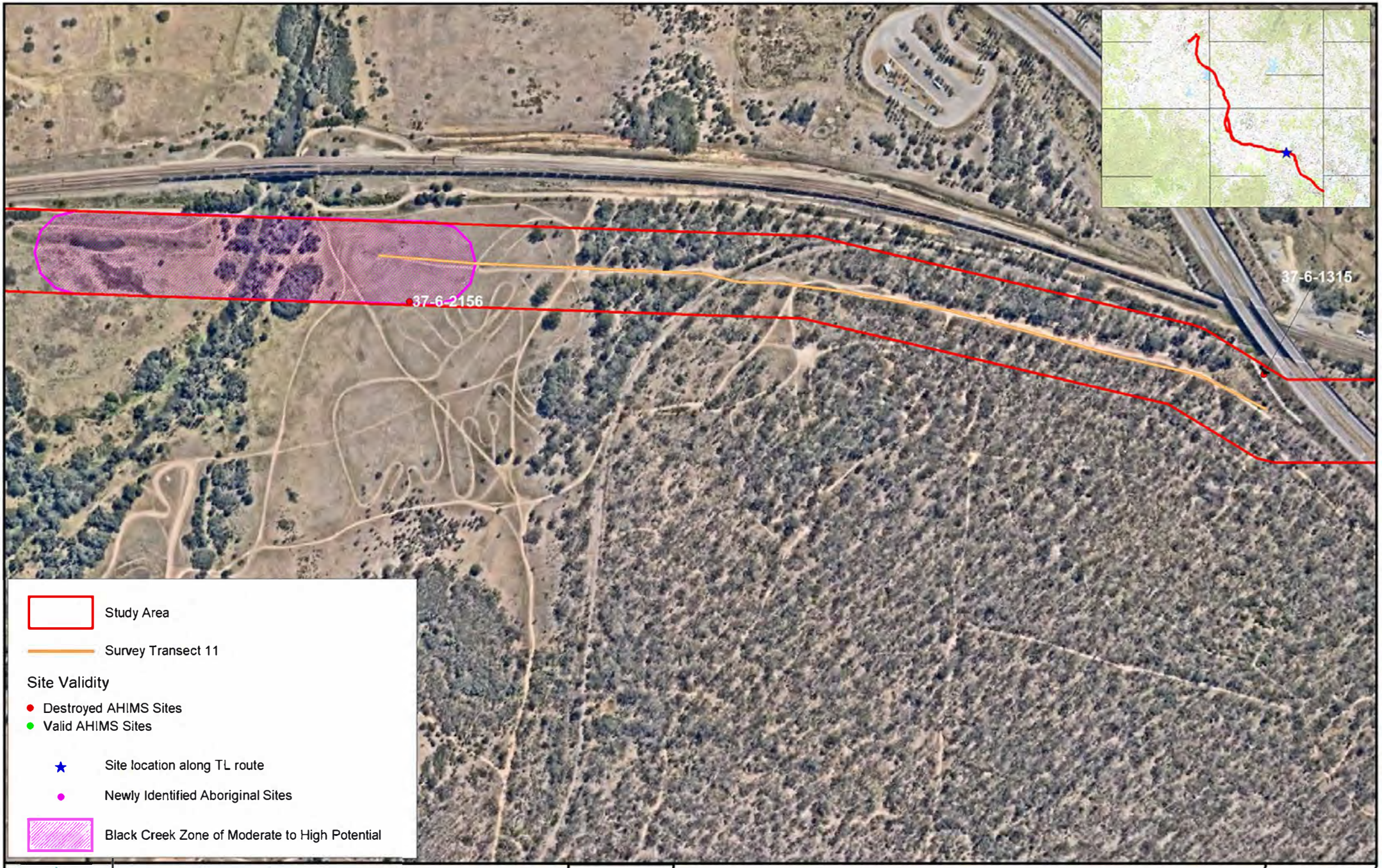
Plate 44: Looking west along STL easement.

Plate 45: Looking west along STL easement crossing point of railway siding.

Plate 46: Looking west along STL easement

Plate 47: Looking downslope towards STL easement crossing point of Black Creek.

| | |
|---|---|
| **AHIMS Sites within STL Study Area:** | 37-6-2156 |
| **Newly Recorded Sites:** | None |

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Projection:
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Figure 16: Survey transect, AHIMS sites and newly identified Aboriginal sites.

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|---|---|---|---|
| **Survey Unit:** | 12 | **Survey Area:** | Belford |
| **Number of Survey Participants:** | 4 | | |
| **Landform Element:** | Flat, Gentle Simple Slope, Modified/Disturbed | **Distance to Watercourse:** | 790m (Black Creek) |
| **Slope:** | Gentle (>1.45°-5.45°) | **Vegetation:** | Cleared, Grass |
| **Detection Limiting Factors:** | Grass, Gravels, Leaf Litter | **Ground Disturbance:** | Moderate |
| **Survey Unit Length:** | 3989m | **Ground Surface Visibility:** | 30% |
| **Total Area surveyed** | 31,912m² | **Archaeological Visibility:** | 10% |

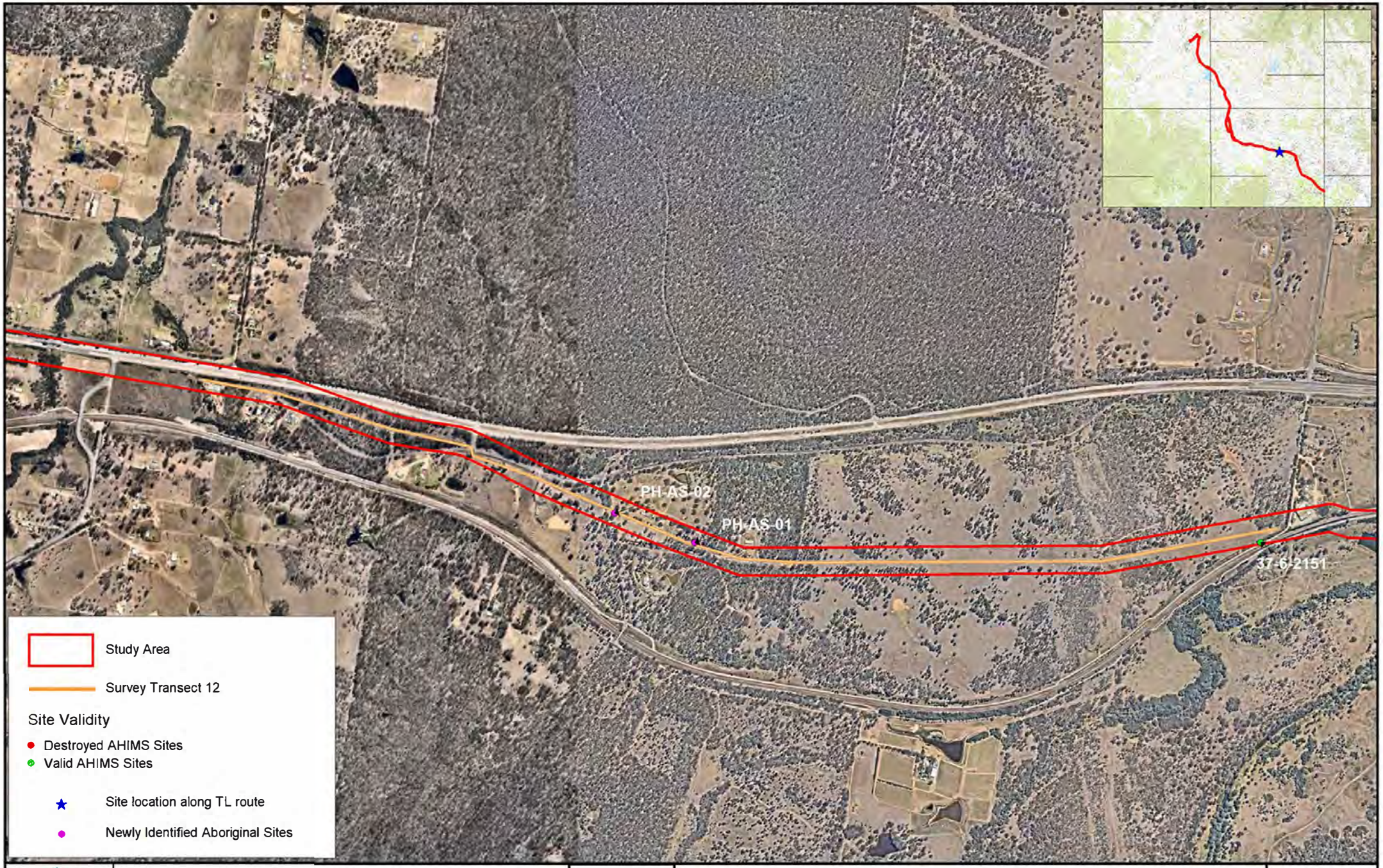
Plate 48: Looking west along STL easement.

Plate 49: Looking west along STL easement.

Plate 50: Looking west along STL easement

Plate 51: Looking west along STL easement towards section running parallel to the New England Highway

| | |
|---|---|
| **AHIMS Sites within STL Study Area:** | 37-6-2151 |
| **Newly Recorded Sites:** | PH-AS-01 & PH-AS-02 |

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kilometres

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Figure 17: Survey transect, AHIMS sites and newly identified Aboriginal sites.

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| | | | |
|---|---|---|---|
| **Survey Unit:** | 13 | **Survey Area:** | Belford/Whittingham |
| **Number of Survey Participants:** | 4 | | |
| **Landform Element:** | Flat, Gentle Simple Slope, Modified/Disturbed | **Distance to Watercourse:** | 1km (Emigrant Creek) |
| **Slope:** | Gentle (>1.45°-5.45°) | **Vegetation:** | Cleared, Grass |
| **Detection Limiting Factors:** | Grass, Gravels, Leaf Litter | **Ground Disturbance:** | Moderate to High |
| **Survey Unit Length:** | 3489m | **Ground Surface Visibility:** | 20% |
| **Total Area surveyed** | 27,912m² | **Archaeological Visibility:** | 15% |

Plate 52: Looking west along STL easement.

Plate 53: Looking west along STL easement.

Plate 54: Looking west along STL easement.

Plate 55: Looking west along STL easement towards New England Highway/Mitchell Line of Road intersection.

| | |
|---|---|
| **AHIMS Sites within STL Study Area:** | 37-6-3914, 37-6-3875 & 37-6-2269 |
| **Newly Recorded Sites:** | EC-AS-01 & EC-AS-02 |

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kilometres

Projection:
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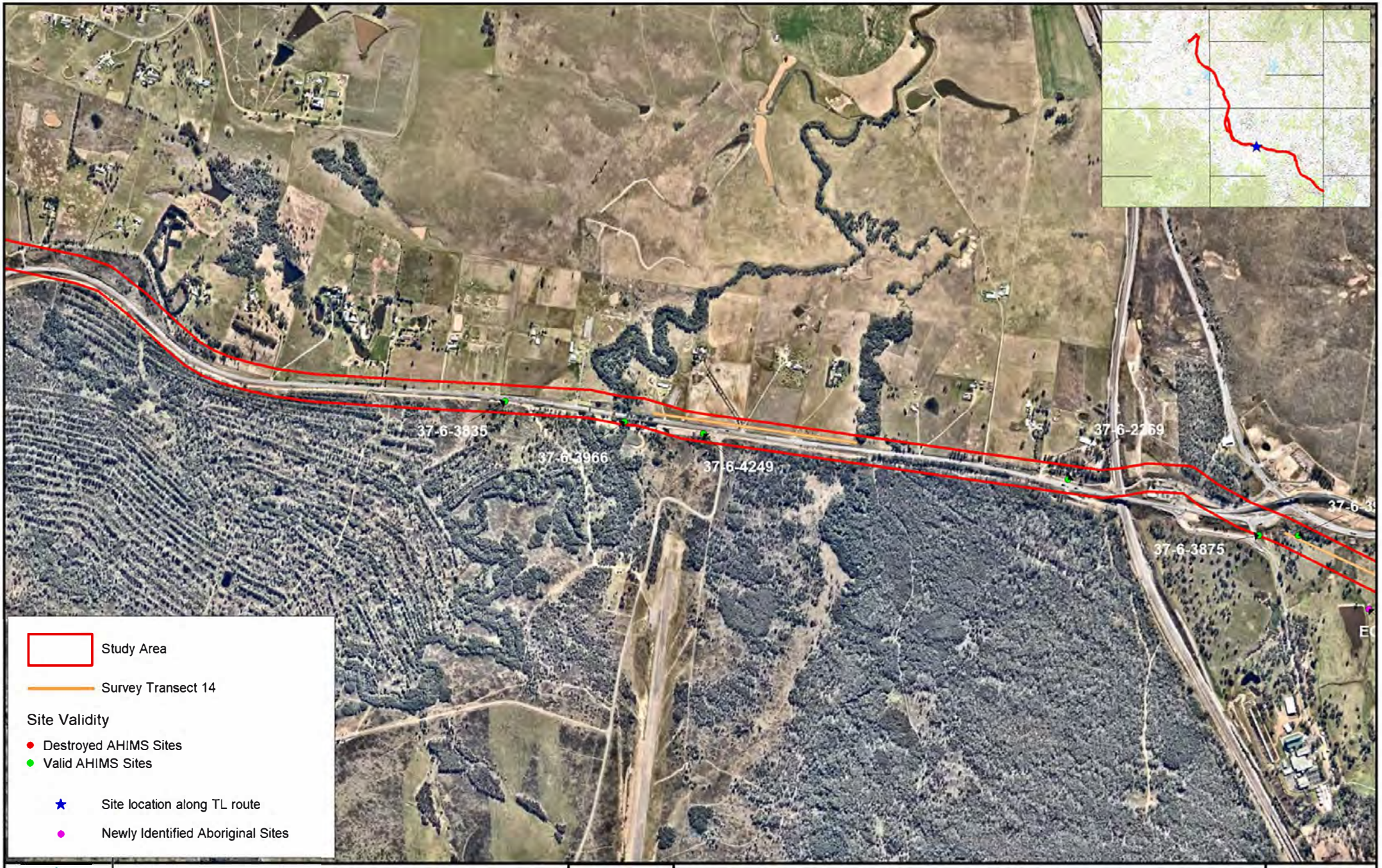
Figure 18: Survey transect, AHIMS sites and newly identified Aboriginal sites.

N

| | | | |
|---|---|---|---|
| **Survey Unit:** | 14 | **Survey Area:** | Whittingham |
| **Number of Survey Participants:** | 4 | | |
| **Landform Element:** | Flat, Modified/Disturbed, Creek Bank | **Distance to Watercourse:** | 316m (Muddies Creek) |
| **Slope:** | Level-very gentle (<1.45°) | **Vegetation:** | Cleared, Grass |
| **Detection Limiting Factors:** | Grass, Gravels, Leaf Litter | **Ground Disturbance:** | High |
| **Survey Unit Length:** | 731m | **Ground Surface Visibility:** | 15% |
| **Total Area surveyed** | 5848m² | **Archaeological Visibility:** | <1% |
| | | | |
| Plate 56: Looking west along Mitchell Line of Road within STL easement/road verge. | | | |
| **AHIMS Sites within STL Study Area:** | | 37-6-2369, 37-6-4249, 37-6-3966 & 37-6-3835 | |
| **Newly Recorded Sites:** | | None | |

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0 0.7 1.4
kilometres

Projection:
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Near Maps 2024
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Figure 19: Survey transect, AHIMS sites and newly identified Aboriginal sites.

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|---|---|---|---|
| **Survey Unit:** | 15 | **Survey Area:** | Whittingham |
| **Number of Survey Participants:** | 4 | | |
| **Landform Element:** | Flat, Gentle Simple Slope, Modified/Disturbed | **Distance to Watercourse:** | 950m (Doughboy Hollow Creek) |
| **Slope:** | Gentle (>1.45°-5.45°) | **Vegetation:** | Cleared, Grass |
| **Detection Limiting Factors:** | Grass, Gravels, Leaf Litter | **Ground Disturbance:** | High |
| **Survey Unit Length:** | 799m | **Ground Surface Visibility:** | 30% |
| **Total Area surveyed** | 6392m² | **Archaeological Visibility:** | 5% |

Plate 57: Looking north over upgrade area option A (Kurri Kurri STS)

Plate 58: Looking east over upgrade area option A (Kurri Kurri STS)

Plate 59: Looking south over upgrade area option B (Kurri Kurri STS)

Plate 60: Looking south west at the southern end of the STL route (Kurri Kurri STS)

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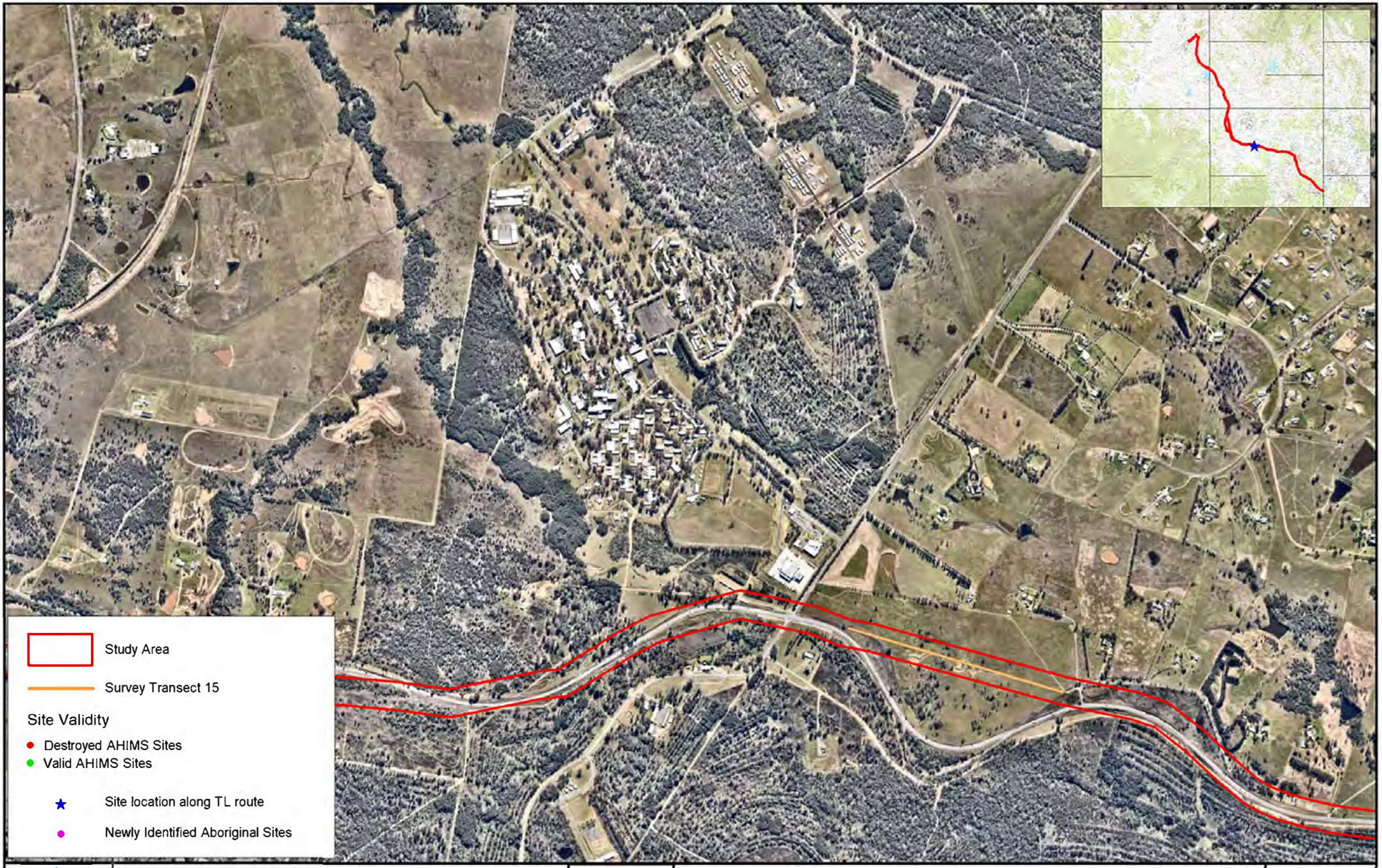
|---|---|
| **AHIMS Sites within STL Study Area:** | None |
| **Newly Recorded Sites:** | None |

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0 0.75 1.5
kilometres

Projection:
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Figure 20: Survey transect, AHIMS sites and newly identified Aboriginal sites.

N

| | | | |
|---|---|---|---|
| **Survey Unit:** | 16 | **Survey Area:** | Singleton Army Base |
| **Number of Survey Participants:** | 4 | | |
| **Landform Element:** | Flat, Gentle Simple Slope, Modified/Disturbed | **Distance to Watercourse:** | 4.4km (Muddies Creek) |
| **Slope:** | Gentle (>1.45°-5.45°) | **Vegetation:** | Cleared, Grass |
| **Detection Limiting Factors:** | Grass, Gravels, Leaf Litter | **Ground Disturbance:** | High |
| **Survey Unit Length:** | 2843m | **Ground Surface Visibility:** | 15% |
| **Total Area surveyed** | 22,744m² | **Archaeological Visibility:** | 5% |

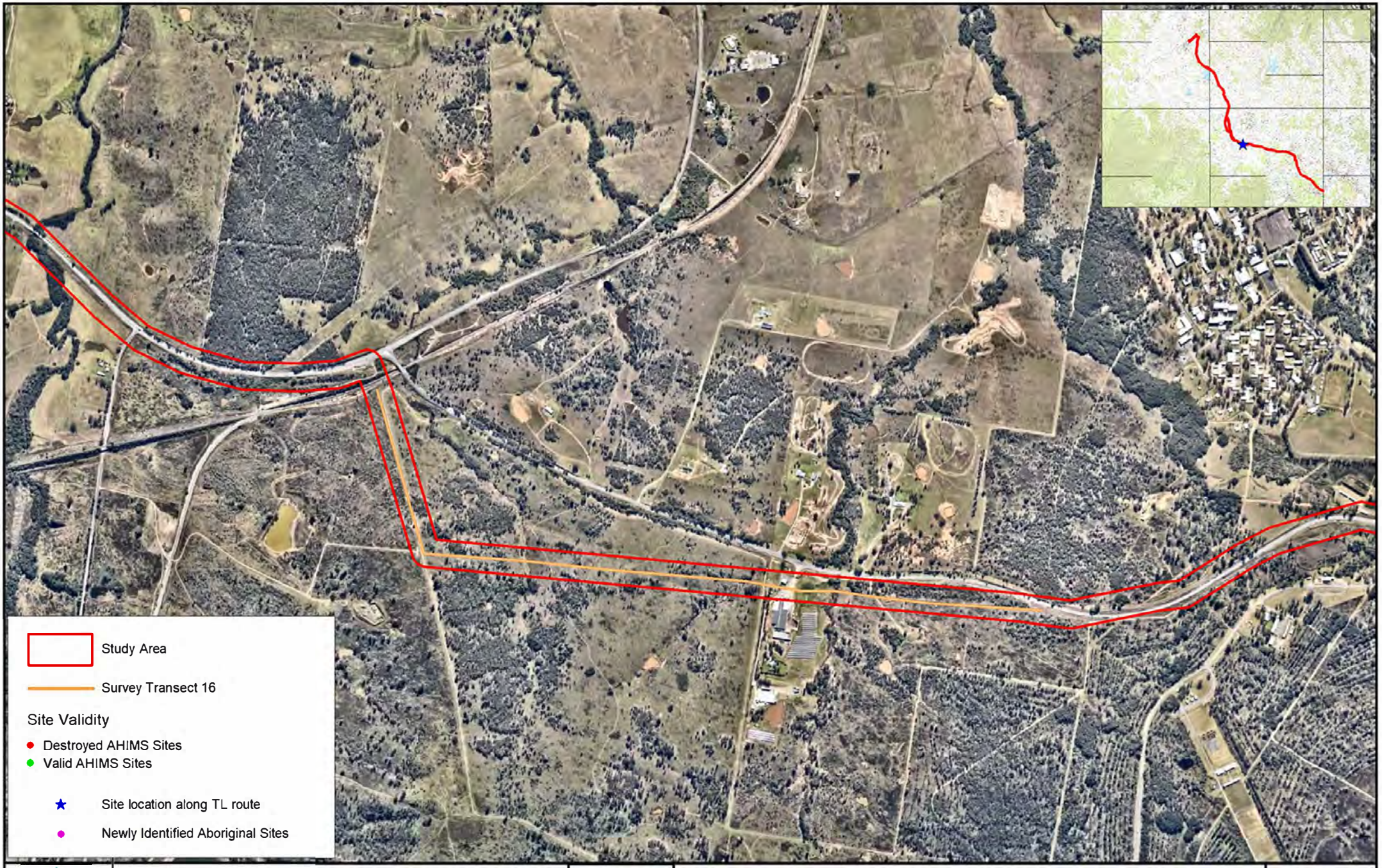
Plate 61: Looking west along the STL easement.

Plate 62: Looking west along the STL easement.

Plate 63: Looking west along the STL easement.

Plate 64: Looking north along the STL easement towards Mitchell Line of Road.

| | |
|---|---|
| **AHIMS Sites within STL Study Area:** | None |
| **Newly Recorded Sites:** | None |

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kilometres

Projection:
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Figure 21: Survey transect, AHIMS sites and newly identified Aboriginal sites.

N

| | | | |
|---|---|---|---|
| **Survey Unit:** | 17 | **Survey Area:** | Mount Thorley/Warkworth |
| **Number of Survey Participants:** | 4 | | |
| **Landform Element:** | Flat, Gentle Simple Slope, Modified/Disturbed, Terrace | **Distance to Watercourse:** | Intersects STL easement (Hunter River) |
| **Slope:** | Gentle (>1.45°-5.45°) | **Vegetation:** | Cleared, Grass |
| **Detection Limiting Factors:** | Grass, Gravels, Leaf Litter | **Ground Disturbance:** | High |
| **Survey Unit Length:** | 5971m | **Ground Surface Visibility:** | 35% |
| **Total Area surveyed** | 47,768m² | **Archaeological Visibility:** | 20% |

Plate 65: Looking north west along STL easement (eastern corridor).

Plate 66: Looking north west along STL easement (eastern corridor).

Plate 67: Looking north west along STL easement (eastern corridor).

Plate 68: Looking north west along STL easement (eastern corridor).

| | |
|---|---|
| **AHIMS Sites within STL Study Area:** | 37-6-0020, 37-6-3077, 37-6-3078, 37-6-1439, 37-6-0677, 37-6-3081, 37-6-3157, 37-6-3156, 37-6-3100, 37-6-0154, 37-6-4040 & 37-6-4051 |
| **Newly Recorded Site Complexes:** | Jerry's Plains Zone of Subsurface Archaeological Potential & Gouldsville – Eastern Corridor – Archaeologically Sensitive Zone. |

| | | | |
|---|---|---|---|
| **Survey Unit:** | 18 | **Survey Area:** | Kurri Kurri STS |
| **Number of Survey Participants:** | 4 | | |
| **Landform Element:** | Flat, Gentle Simple Slope, Modified/Disturbed, Terrace | **Distance to Watercourse:** | Intersects STL easement (Hunter River) |
| **Slope:** | Gentle (>1.45°-5.45°) | **Vegetation:** | Cleared, Grass |
| **Detection Limiting Factors:** | Grass, Gravels, Leaf Litter | **Ground Disturbance:** | High |
| **Survey Unit Length:** | 3072m | **Ground Surface Visibility:** | 35% |
| **Total Area surveyed** | 24,576m² | **Archaeological Visibility:** | 20% |

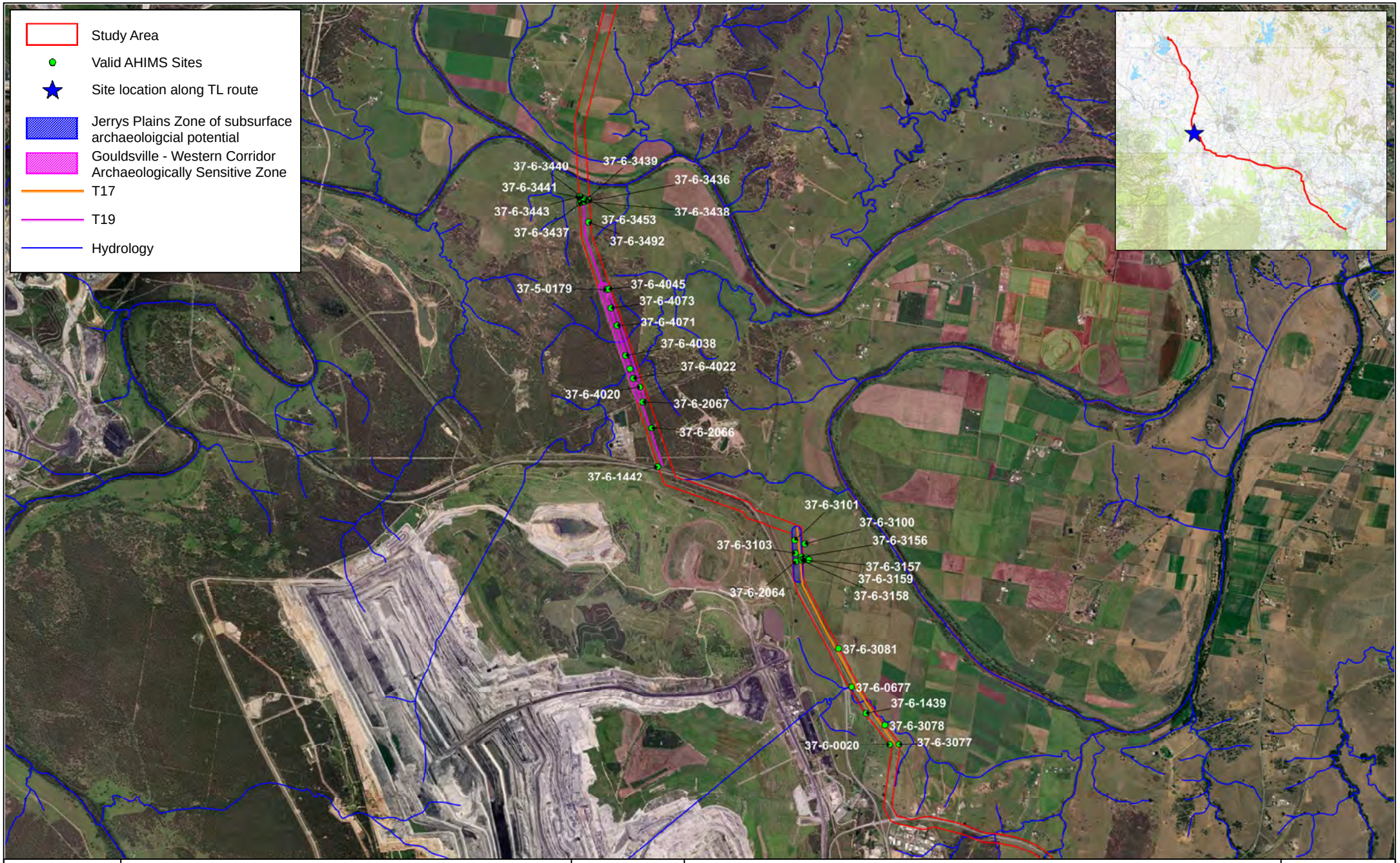
Plate 69: Looking south east along STL easement crossing rail corridor (western corridor).

Plate 70: Looking north west along the STL easement (western corridor).

Plate 71: Looking north west along STL easement (western corridor).

Plate 72: Looking north across crossing STL easement point of the Hunter River (western corridor).

| | |
|---|---|
| **AHIMS Sites within STL Study Area:** | 37-6-1442, 37-6-2066, 37-6-2067, 37-6-4020, 37-6-4022, 37-6-4023, 37-6-4038, 37-6-4045, 37-6-4071, 37-6-4073, 37-5-0179, 37-6-3492, 37-6-3436, 37-6-3437, 37-6-3438 & 37-6-3443 |
| **Newly Recorded Site Complex:** | Gouldsville – Western Corridor – Archaeologically Sensitive Zone |

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kilometres

Projection:
MGA Zone 56 (GDA 94)
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Figure 22: Survey transect, AHIMS sites and newly identified Aboriginal sites

| | | | |
|---|---|---|---|
| **Survey Unit:** | 19 | **Survey Area:** | Maison Dieu |
| **Number of Survey Participants:** | 4 | | |
| **Landform Element:** | Flat/Modified/Disturbed | **Distance to Watercourse:** | Intersects STL easement (Hunter River) |
| **Slope:** | Gentle (>1.45°-5.45°) | **Vegetation:** | Cleared, Grass |
| **Detection Limiting Factors:** | Grass, Gravels, Leaf Litter | **Ground Disturbance:** | Moderate |
| **Survey Unit Length:** | 2819m | **Ground Surface Visibility:** | 35% |
| **Total Area surveyed** | 22,552m² | **Archaeological Visibility:** | 10% |

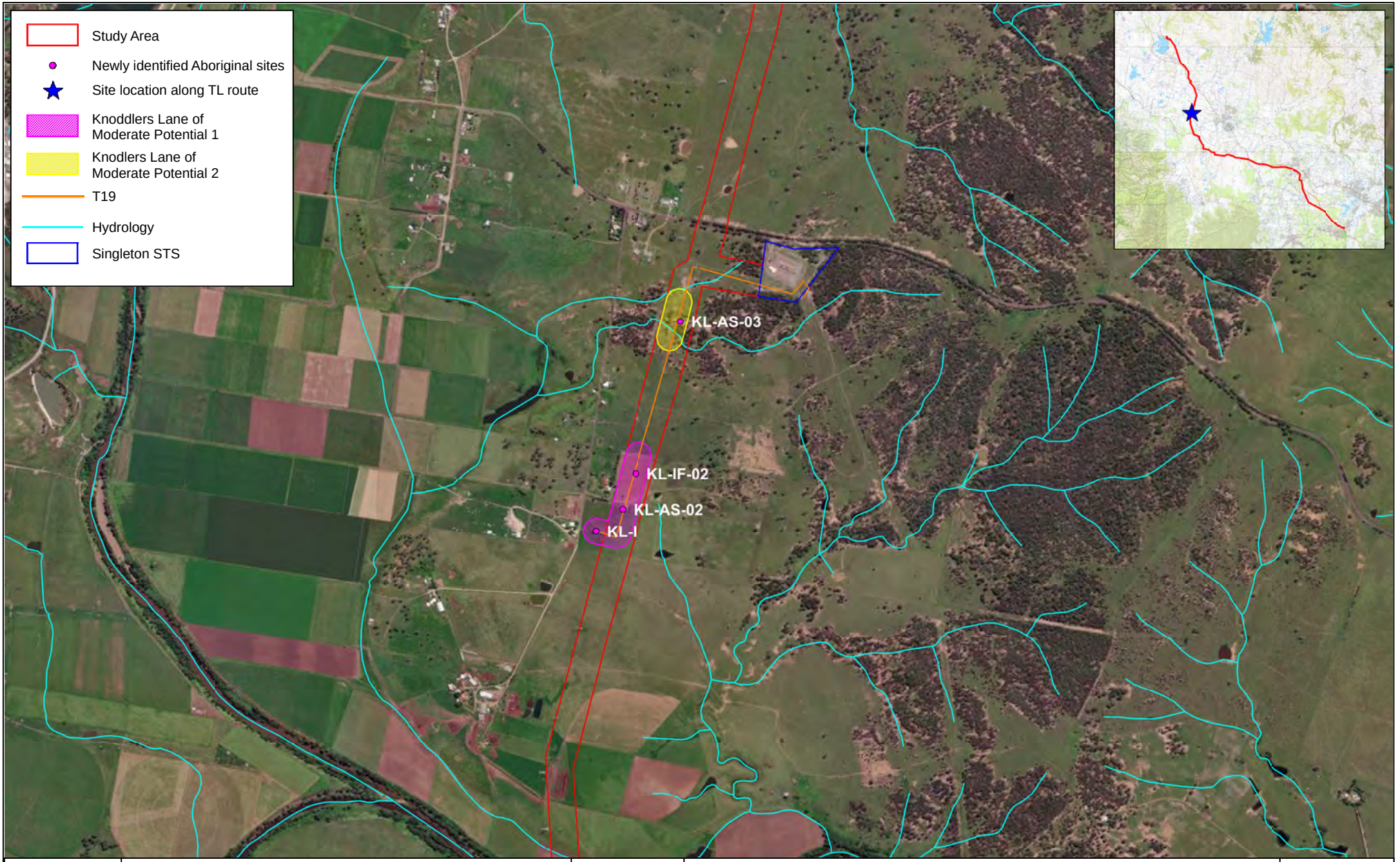
Plate 73: Looking north east along STL easement.

Plate 74: Looking north east along STL easement.

Plate 75: Looking east across Singleton STS along STL easement.

Plate 76: Looking west within the Singleton STS

| | |
|---|---|
| **AHIMS Sites within STL Study Area:** | 37-6-1802 |
| **Newly Recorded Sites:** | KL-IF-01, KL-IF-02, KL-AS-02 & KL-AS-03 |

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kilometres

Projection:
MGA Zone 56 (GDA 94)
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Bing Maps 2025
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Figure 23: Survey transect and newly identified Aboriginal sites

| | | | |
|---|---|---|---|
| **Survey Unit:** | 20 | **Survey Area:** | Maison Dieu |
| **Number of Survey Participants:** | 4 | | |
| **Landform Element:** | Flat, Gentle Simple Slope, Creek Bank, Modified/Disturbed | **Distance to Watercourse:** | 710m (Hunter River) TL Intersects Fal Brook |
| **Slope:** | Gentle (>1.45°-5.45°) | **Vegetation:** | Cleared, Grass |
| **Detection Limiting Factors:** | Grass, Gravels, Leaf Litter | **Ground Disturbance:** | High |
| **Survey Unit Length:** | 5626m | **Ground Surface Visibility:** | 35% |
| **Total Area surveyed** | 45,008m² | **Archaeological Visibility:** | 20% |

Plate 77: Looking north east along STL easement.

Plate 78: Looking north east along STL easement.

Plate 79: Looking north west along STL easement.

Plate 80: Looking north west along STL easement.

| | |
|---|---|
| **AHIMS Sites within STL Study Area:** | 37-6-4305, 37-3-0809 and 37-3-0810 |
| **Newly Recorded Sites:** | MD-AS-01, MD-IF-01, MD-AS-02, MD-IF-02 & MD-AS-03/PAD (Camberwell Zone of High Potential). |

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kilometres

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Figure 24: Survey transect, AHIMS sites and newly identified Aboriginal sites.

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| | | | |
|---|---|---|---|
| **Survey Unit:** | 21 | **Survey Area:** | Camberwell |
| **Number of Survey Participants:** | 4 | | |
| **Landform Element:** | Flat, Gentle Simple Slope, Creek Bank, Modified/Disturbed | **Distance to Watercourse:** | Intersects STL easement (Glennies Creek & Bowmans Creek). |
| **Slope:** | Gentle (>1.45°-5.45°) | **Vegetation:** | Cleared, Grass |
| **Detection Limiting Factors:** | Grass, Gravels, Leaf Litter | **Ground Disturbance:** | High |
| **Survey Unit Length:** | 2127m | **Ground Surface Visibility:** | 25% |
| **Total Area surveyed** | 17,016m² | **Archaeological Visibility:** | 15% |

Plate 81: Looking north west along STL easement.

Plate 82: Looking north west along STL easement.

Plate 83: Looking north west along STL easement.

Plate 84: Looking north west along STL easement towards crossing point over Bowmans Creek.

| | |
|---|---|
| **AHIMS Sites within STL Study Area:** | 37-3-0539, 37-3-0537, 37-3-0500 & 37-3-0006 |
| **Site Complex:** | Bowmans Creek Zone of Archaeological Sensitivity |

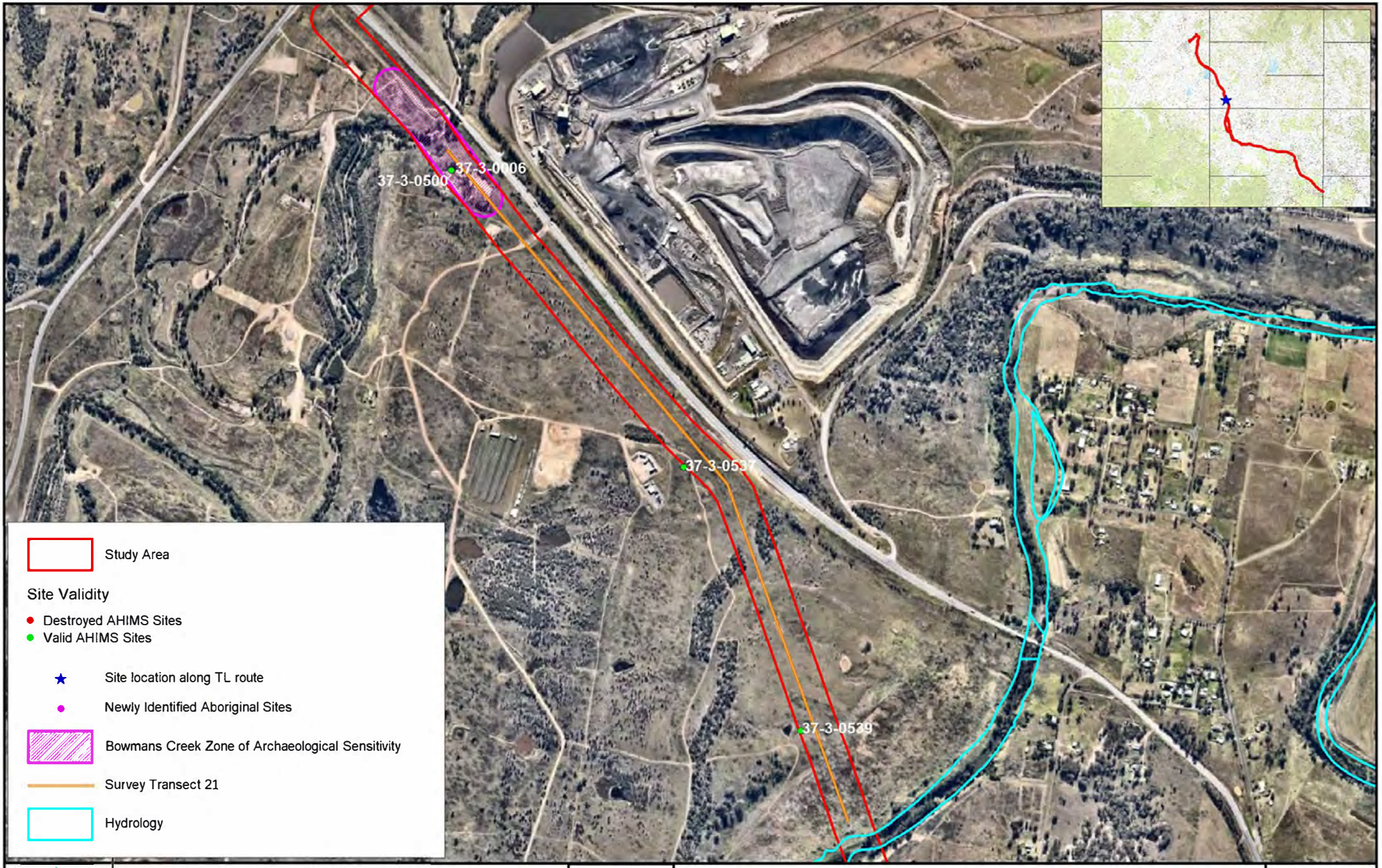


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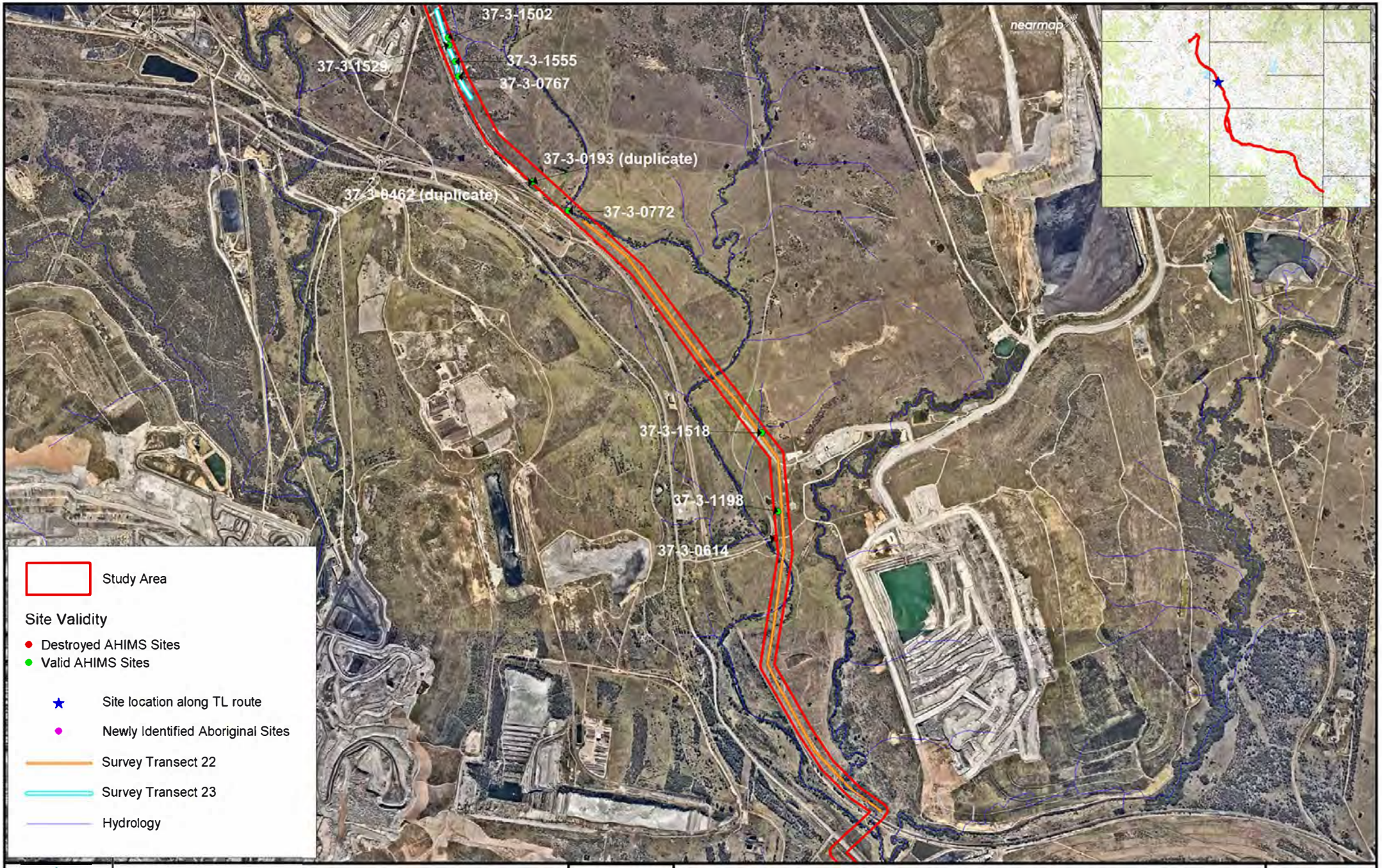
Figure 25: Survey transect, AHIMS sites and newly identified Aboriginal sites.

| | | | |
|---|---|---|---|
| **Survey Unit:** | 22 | **Survey Area:** | Ravensworth |
| **Number of Survey Participants:** | 4 | | |
| **Landform Element:** | Flat, Gentle Simple Slope, Modified/Disturbed | **Distance to Watercourse:** | Intersect STL easement (Bowmans Creek) |
| **Slope:** | Gentle (>1.45°-5.45°) | **Vegetation:** | Cleared, Grass |
| **Detection Limiting Factors:** | Grass, Gravels, Leaf Litter | **Ground Disturbance:** | High |
| **Survey Unit Length:** | 1469m | **Ground Surface Visibility:** | 40% |
| **Total Area surveyed** | 11,752m² | **Archaeological Visibility:** | 10% |
| | | | |
| Plate 85: Looking north west along STL easement. | | Plate 86: Looking north west along STL easement. | |
| **AHIMS Sites within STL Study Area:** | | 37-3-0614, 37-3-1198, 37-3-1518, 37-3-0772, 37-3-0462 (duplicate) & 37-3-0193 (duplicate) | |
| **Newly Recorded Sites:** | | None | |

| | | | |
|---|---|---|---|
| **Survey Unit:** | 23 | **Survey Area:** | Ravensworth |
| **Number of Survey Participants:** | 4 | | |
| **Landform Element:** | Flat, Gentle Simple Slope, Modified/Disturbed | **Distance to Watercourse:** | Intersect STL easement (Bowmans Creek) |
| **Slope:** | Gentle (>1.45°-5.45°) | **Vegetation:** | Cleared, Grass |
| **Detection Limiting Factors:** | Grass, Gravels, Leaf Litter | **Ground Disturbance:** | High |
| **Survey Unit Length:** | 673m | **Ground Surface Visibility:** | 35% |
| **Total Area surveyed** | 5384m² | **Archaeological Visibility:** | 10% |
| | | | |
| Plate 87: Looking north west along STL easement. | | Plate 88: Looking north west along STL easement. | |
| **AHIMS Sites within STL Study Area:** | | 37-3-0767, 37-3-1555, 37-3-1529 & 37-3-1502 | |
| **Newly Recorded Sites:** | | None | |

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kilometres

Projection:
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Figure 26: Survey transect, AHIMS sites and newly identified Aboriginal sites.

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| | | | |
|---|---|---|---|
| **Survey Unit:** | 24 | **Survey Area:** | Kurri Kurri STS |
| **Number of Survey Participants:** | 4 | | |
| **Landform Element:** | Flat, Gentle Simple Slope, Modified/Disturbed | **Distance to Watercourse:** | 1.9km (Bowmans Creek) |
| **Slope:** | Gentle (>1.45°-5.45°) | **Vegetation:** | Cleared, Grass |
| **Detection Limiting Factors:** | Grass, Gravels, Leaf Litter | **Ground Disturbance:** | High |
| **Survey Unit Length:** | 1357m | **Ground Surface Visibility:** | 20% |
| **Total Area surveyed** | 10,856m² | **Archaeological Visibility:** | <1% |
| | | | |
| Plate 89: Looking north west along STL easement. | | Plate 90: Looking north west along STL easement. | |
| **AHIMS Sites within STL Study Area:** | | 37-3-1162, 37-3-1160, 37-3-1151, 37-3-0454, 37-3-0711 & 37-3-0192 | |
| **Newly Recorded Sites:** | | None | |

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0 1.25 2.5
kilometres

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Figure 27: Survey transect, AHIMS sites and newly identified Aboriginal sites.

N

| | | | |
|---|---|---|---|
| **Survey Unit:** | 25 | **Survey Area:** | Hebden |
| **Number of Survey Participants:** | 4 | | |
| **Landform Element:** | Flat/Modified/Disturbed | **Distance to Watercourse:** | 2.9km (Bowmans Creek) |
| **Slope:** | Level-very gentle (<1.45°) | **Vegetation:** | Cleared, Grass |
| **Detection Limiting Factors:** | Grass, Gravels | **Ground Disturbance:** | High |
| **Survey Unit Length:** | 3024m | **Ground Surface Visibility:** | 35% |
| **Total Area surveyed** | 24,192m² | **Archaeological Visibility:** | 10% |

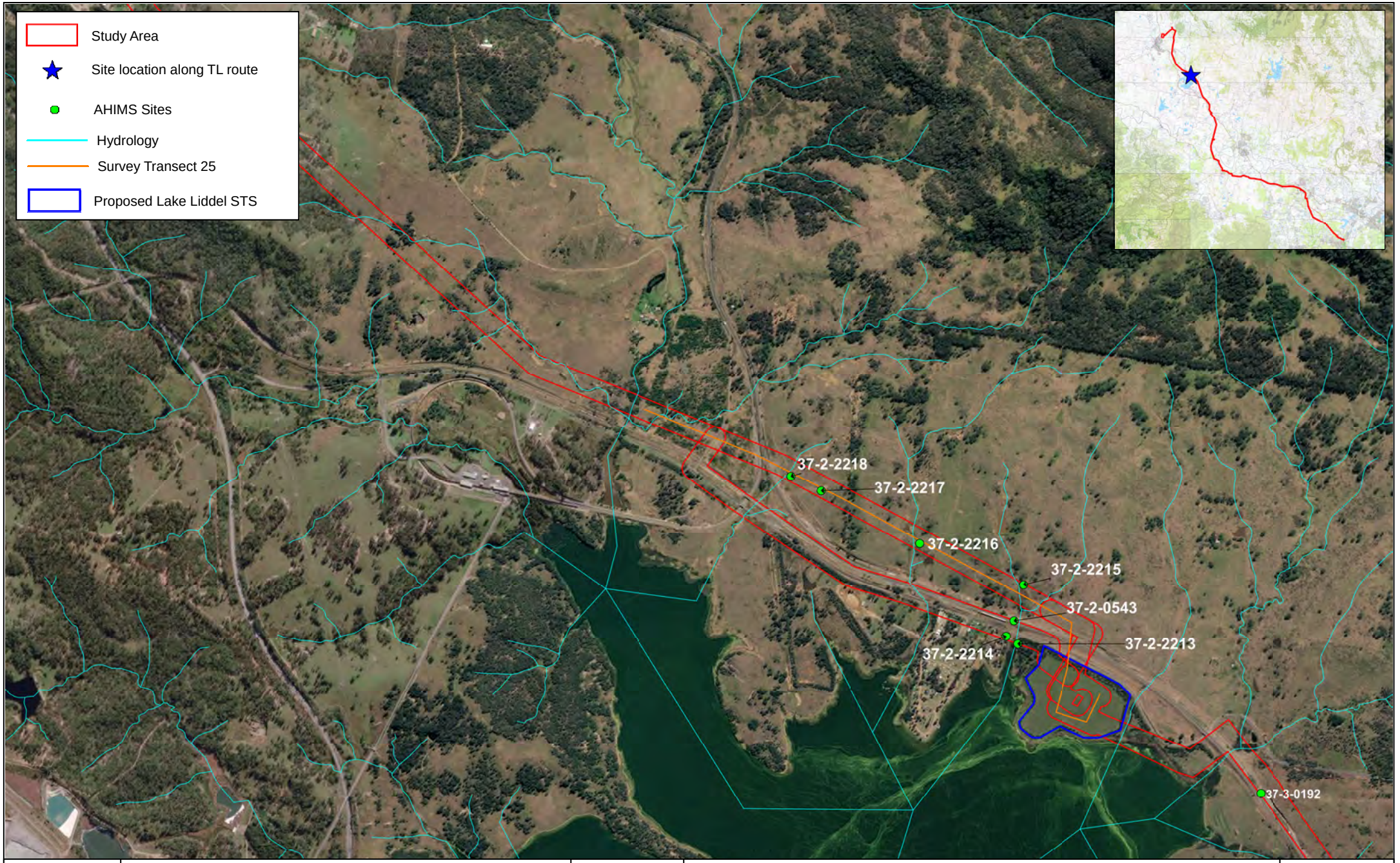
Plate 91: Looking north west along STL easement.

Plate 92: Looking north west along STL easement.

Plate 93: Looking south east along STL easement.

Plate 94: Looking north west along STL easement.

| | |
|---|---|
| **AHIMS Sites within STL Study Area:** | 37-2-2213, 37-2-2214, 37-2-2215, 37-2-2216, 37-2-2217 & 37-2-2218 |
| **Newly Recorded Sites:** | None |

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kilometres

Projection:
MGA Zone 56 (GDA 94)
Base Map:
Bing Maps 2025
Final - Version 1

Figure 28: Survey transect and AHIMS sites.

| | | | |
|---|---|---|---|
| **Survey Unit:** | 26 | **Survey Area:** | Muswellbrook |
| **Number of Survey Participants:** | 4 | | |
| **Landform Element:** | Flat, Gentle Simple Slope, Modified/Disturbed | **Distance to Watercourse:** | Intersect STL easement (Muscle Creek) |
| **Slope:** | Gentle (>1.45°-5.45°) | **Vegetation:** | Cleared, Grass |
| **Detection Limiting Factors:** | Grass, Gravels, Leaf Litter | **Ground Disturbance:** | High |
| **Survey Unit Length:** | 5006m | **Ground Surface Visibility:** | 35% |
| **Total Area surveyed** | 40,048m² | **Archaeological Visibility:** | 5% |

Plate 95: Looking south east over Wild Quarries site within STL easement.

Plate 96: Looking north west along STL easement.

Plate 97: Looking north east along STL easement.

Plate 98: Looking north west along STL easement.

| | |
|---|---|
| **AHIMS Sites within STL Study Area:** | 37-2-0098 & 37-2-1455 |
| **Newly Recorded Sites:** | WR-IF-01 |

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Projection:
MGA Zone 56 (GDA 94)
Base Map:
Near Maps 2024
Image Date: 23/10/2023
Final - Version 1

Figure 29: Survey transect, AHIMS sites and newly identified Aboriginal sites.

N

| | | | |
|---|---|---|---|
| **Survey Unit:** | 27 | **Survey Area:** | Muswellbrook |
| **Number of Survey Participants:** | 4 | | |
| **Landform Element:** | Flat, Gentle Simple Slope, Modified/Disturbed | **Distance to Watercourse:** | 1.7km (Hunter River) |
| **Slope:** | Gentle (>1.45°-5.45°) | **Vegetation:** | Cleared, Grass |
| **Detection Limiting Factors:** | Grass, Gravels, Leaf Litter | **Ground Disturbance:** | High |
| **Survey Unit Length:** | 12,439m | **Ground Surface Visibility:** | 35% |
| **Total Area surveyed** | 99,512m² | **Archaeological Visibility:** | <1% |

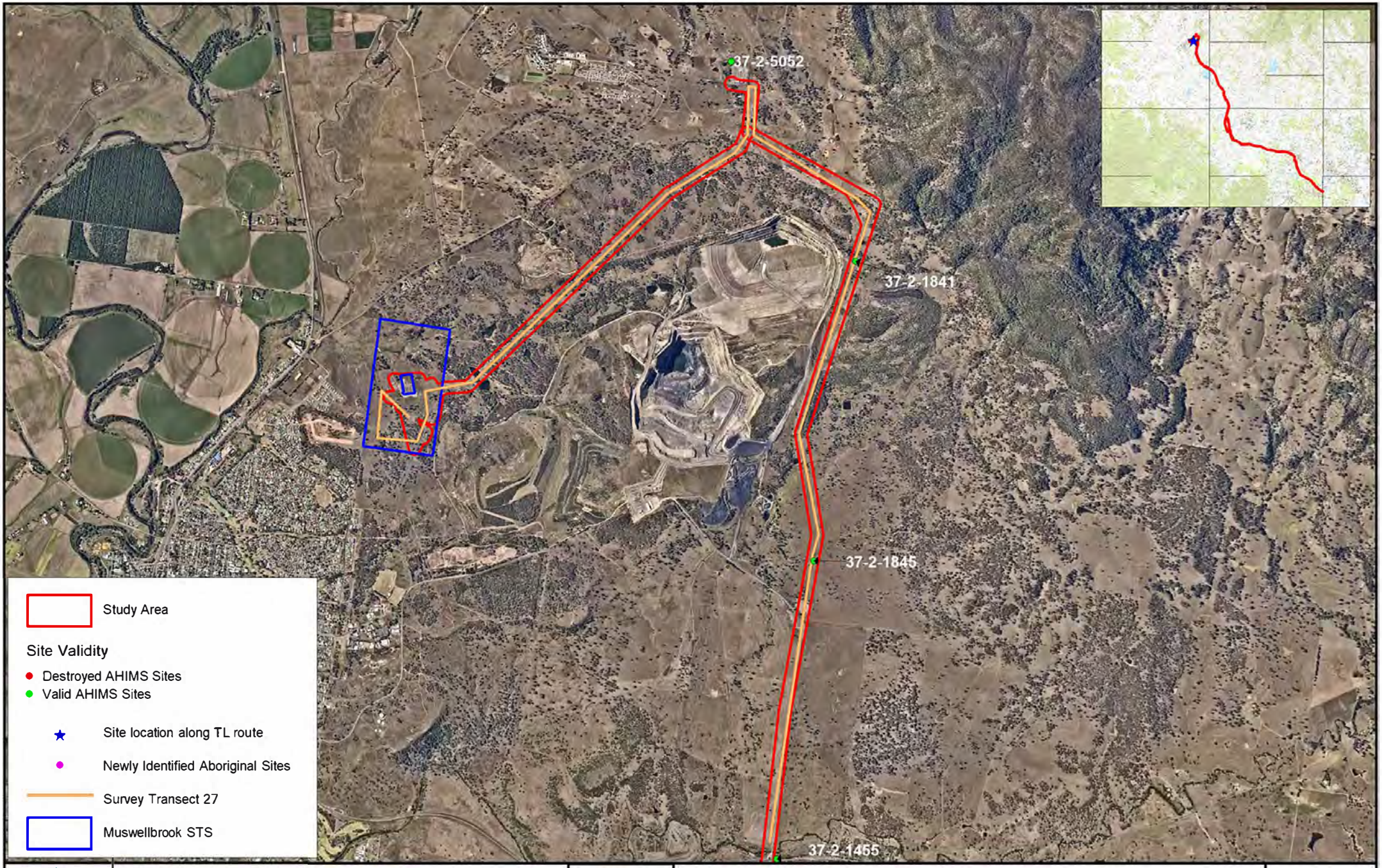
Plate 99:Looking north along STL easement.

Plate 100: Looking north east along STL easement.

Plate 101: Looking north east along STL easement

Plate 102: Looking south west towards Muswellbrook STS along STL easement.

| | |
|---|---|
| **AHIMS Sites within STL Study Area:** | 37-2-1845 & 37-2-1841 |
| **Newly Recorded Sites:** | None |

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Projection:
MGA Zone 56 (GDA 94)
Base Map:
Near Maps 2024
Image Date: 23/10/2023
Final - Version 1

Figure 30: Survey transect, AHIMS sites and newly identified Aboriginal sites.

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Table 9: Survey units

| Unit name | Landform Element | Number of participants | Total Length |
|---|---|---|---|
| Survey Unit 1 | Flat/Modified/Disturbed | 4 | 560m |
| Survey Unit 2 | Flat/Modified/Disturbed | 4 | 896m |
| Survey Unit 3 | Gentle simple slope | 4 | 1467m |
| Survey Unit 4 | Flat/Modified/Disturbed | 4 | 626m |
| Survey Unit 5 | Gentle simple slope/ rolling hills/ creek bank | 4 | 3677m |
| Survey Unit 6 | Gentle simple slope/ Flat/Modified/Disturbed | 4 | 2022m |
| Survey Unit 7 | Flat/Gentle simple slope/Modified/ Disturbed | 4 | 1491m |
| Survey Unit 8 | Flat/Gentle simple slope/Modified/ Disturbed | 4 | 2207m |
| Survey Unit 9 | Flat/Gentle simple slope/Modified/ Disturbed/Creek bank | 4 | 3224m |
| Survey Unit 10 | Flat/Modified/Disturbed | 4 | 1525m |
| Survey Unit 11 | Flat/Gentle simple slope/Modified/ Disturbed/Creek bank | 4 | 1088m |
| Survey Unit 12 | Flat/Gentle simple slope/Modified/ Disturbed | 4 | 3989m |
| Survey Unit 13 | Flat/Gentle simple slope/Modified/ Disturbed | 4 | 3489m |
| Survey Unit 14 | Flat/ Modified/ Disturbed/Creek Bank | 4 | 731m |
| Survey Unit 15 | Flat/Gentle simple slope/Modified/ Disturbed | 4 | 799m |
| Survey Unit 16 | Flat/Gentle simple slope/Modified/ Disturbed | 4 | 2843m |
| Survey Unit 17 | Flat/Gentle simple slope/Modified/ Disturbed | 4 | 5971m |
| Survey Unit 18 | Flat/Gentle simple slope/Modified/ Disturbed/Terrace | 4 | 3072m |
| Survey Unit 19 | Flat/Modified/ Disturbed | 4 | 2819m |
| Survey Unit 20 | Flat/Gentle simple slope/Creek Bank/ Modified/ Disturbed | 4 | 5626m |
| Survey Unit 21 | Flat/Gentle simple slope/Creek Bank/ Modified/ Disturbed | 4 | 2127m |
| Survey Unit 22 | Flat/Gentle simple slope/Modified/ Disturbed | 4 | 1469m |
| Survey Unit 23 | Flat/Gentle simple slope/Modified/ Disturbed | 4 | 673m |
| Survey Unit 24 | Flat/gentle simple slope/Modified/ Disturbed | 4 | 1357m |
| Survey Unit 25 | Flat/Modified/Disturbed | 4 | 3024m |
| Survey Unit 26 | Flat/Gentle simple slope/Modified/ Disturbed | 4 | 5006m |
| Survey Unit 27 | Flat/Gentle simple slope/Modified/ Disturbed | 4 | 12439m |

During the survey completed by Apex Archaeology the study area was inspected for Aboriginal archaeological evidence. An assessment of landform element and slope was made for the study area, with the results presented in Table 10.

The total survey coverage (meaning the areas physically inspected for archaeological evidence) was approximately 595,680m$^2$. A range of factors were considered and recorded during the survey, including the surface visibility (percentage of bare ground within a survey unit); archaeological visibility (amount of bare ground within an area in which artefacts could be expected to be identified if present); exposure type (A or B soil horizon) and calculations of how effective the survey coverage was. The results of the survey coverage are presented in Table 10.

Table 10: Survey coverage results

| Survey Area # | Total Area Surveyed (m²) | Surface Visibility (%) | Arch Vis (%) | Exposure Type (A/B) | Effective Coverage (m²) | % Total Effective Survey Coverage of Context |
|---|---|---|---|---|---|---|
| SU 1 | 4480 | 35 | 1 | A and B | 15.68 | 0.35 |
| SU 2 | 7168 | 45 | 1 | A and B | 32.25 | 0.44 |
| SU 3 | 11,736 | 25 | 5 | A and B | 146.7 | 1.25 |
| Su 4 | 5008 | 20 | 5 | A and B | 50.08 | 1 |
| SU 5 | 29,416 | 25 | 20 | A and B | 1470.8 | 5 |
| SU 6 | 16,176 | 20 | 5 | A and B | 485.28 | 3 |
| SU 7 | 11,928 | 30 | 10 | A and B | 357.84 | 3 |
| SU 8 | 17,656 | 35 | 15 | A and B | 926.94 | 5.25 |
| SU 9 | 25,792 | 40 | 10 | A and B | 1031.68 | 4 |
| SU 10 | 12,200 | 25 | 5 | A and B | 152.5 | 1.25 |
| SU 11 | 8704 | 40 | 20 | A and B | 696.32 | 7.9 |
| SU 12 | 31,912 | 30 | 10 | A and B | 957.36 | 3 |
| SU 13 | 27,912 | 20 | 15 | A and B | 837.36 | 3 |
| SU 14 | 5848 | 15 | 1 | A and B | 8.77 | 0.1 |
| SU 15 | 6392 | 30 | 5 | A and B | 95.88 | 1.5 |
| SU 16 | 22,744 | 15 | 5 | A and B | 170.58 | 0.75 |
| SU 17 | 47,768 | 35 | 20 | A and B | 3343.76 | 7 |
| SU 18 | 24,576 | 35 | 20 | A and B | 1720.32 | 7 |
| SU 19 | 22,552 | 35 | 10 | A and B | 1578.64 | 7 |
| SU 20 | 45,008 | 35 | 20 | A and B | 3150.56 | 7 |
| SU 21 | 17,016 | 25 | 15 | A and B | 638.1 | 3.75 |
| SU 22 | 11,752 | 40 | 10 | A and B | 470.08 | 4 |
| SU 23 | 5384 | 35 | 10 | A and B | 188.44 | 3.5 |
| SU 24 | 10,856 | 20 | 1 | A and B | 379.96 | 3.5 |
| SU 25 | 24,192 | 35 | 10 | A and B | 846.72 | 3.5 |
| SU 26 | 40,048 | 35 | 5 | A and B | 700.84 | 1.75 |
| SU 27 | 99,512 | 35 | 1 | A and B | 348.29 | 0.3 |

Surface visibility across the study areas was limited due to surface vegetation such as exotic grasses, leaf litter, gravels and weeds.

## 5.4 Survey Results

The area has clearly been disturbed by previous transmission and distribution electricity line construction, operation and vegetation maintenance, mining related activities, rail infrastructure, road construction and upgrades along with sub surface telecommunication cabling (Telstra copper cable & fibre optic cable) and farming/agricultural activities. More noticeable disturbance was evident within the southern and northern portions of the power line route; however there was still a moderate level of disturbance within the central portion of the power line route. Given the entirety of the study area is within previously constructed power line easement, the levels of disturbance were assessed as being overall quite high.

Ground surface visibility (GSV) was moderate throughout the study area. GSV was rated from a range of 10 to 45% overall. Raw material sources (silcrete cobbles and indurated mudstone/silicified tuff (IMST) cobbles) were identified within areas of archaeological sensitivity around the Hunter River within the raised terrace areas of Gouldsville and Glennies Creek.

Table 11: Previously recorded AHIMS sites that were relocated during the site survey work.

| Site ID | Site Name | Site Type | Relocated | Comment |
|---|---|---|---|---|
| 37-3-0192 | Telecom site 4; | Isolated find | No | Site relocated but artefact not identified site likely impacted by rail corridor works. |
| 37-3-0193<br>37-3-0462 | Telecom site 5;<br>Davies Site 5 | Artefact scatter | No | Valid Site with duplicate numbers |
| 37-3-0537 | Ashton High Ridge Workshop site (EWA 86) | Artefact scatter/PAD | No | Valid Site |
| 37-3-0539 | Ashton Glennies Flats site 1 | Artefact scatter | No | Valid Site |
| 37-3-0711 | SP2 (Liddell Mine) | Artefact scatter | No | Valid Site |
| 37-5-0179 | NW 1; | Artefact scatter | No | Valid Site |
| 37-6-0020 | Mt Thorley; | Artefact scatter | Yes | Valid Site |
| 37-6-0154 | Mt Thorley; Mt Thorley D; | Artefact scatter | No | Valid Site |
| 37-6-0677 | Wark-1 | Artefact scatter/PAD | Yes | Valid Site |
| 37-6-0682 | Wark-2 | Isolated find | Yes | Site location within mine site inspected. Artefact not relocated |
| 37-6-1439 | JP 12 | Artefact scatter/PAD | Yes | Valid Site |
| 37-6-1442 | JP 21 | Artefact scatter | No | Valid Site |
| 37-6-1644 | Swamp Creek Catchment 5 | Artefact scatter/PAD | Yes | Site highly disturbed – no artefacts identified – Site card update required |
| 37-6-1645 | Swamp Creek Catchment 4 | Artefact scatter/PAD | Yes | Site likely destroyed – Site card update required |
| 37-3-0006 | Camberwell Bowman's Creek | Artefact scatter | Yes | Site complex should be avoided and conserved |
| 37-3-0500 | ASH4 Waterhole Site same as 37-3-0006 | Artefact scatter/Grinding grooves | Yes | Site complex should be avoided and conserved. |
| 37-3-0767 | Bowmans Ck 12 | Artefact scatter | Yes | Valid Site |
| 37-3-0772 | Bowmans Ck 16 | Rock engraving | No | Valid Site (Conserve and avoid) |

| Site ID | Site Name | Site Type | Relocated | Comment |
|---|---|---|---|---|
| 37-3-0809 | SA8/10, SA8/12, SA8/14 | Artefact scatter/ Grinding grooves | No | Valid site (potential grinding groove not relocated). |
| 37-3-0810 | SA1/8-SA1/11, SA4/2, SA11/1-SA11/6 | Artefact scatter/PAD | No | Outside easement |
| 37-3-1198 | MOCO OS-10 | Artefact scatter | Yes | Site fenced and conserved |
| 37-3-1502 | Bowmans Creek 6 | Artefact scatter | Yes | Valid Site |
| 37-3-1518 | Glendell North IF18 | Isolated find/PAD | Yes | Site fenced and conserved |
| 37-3-1529 | Glendell North IF7 | Isolated find | Yes | Valid Site |
| 37-3-1555 | Glendell North OS10 | Artefact scatter | Yes | Valid Site |
| 37-6-0866 | KK-IF-1 | Isolated find | No | Site likely destroyed by Hunter Expressway development |
| 37-6-1802 | MU2B | Artefact scatter | No | Valid Site |
| 37-6-2007 | KR04 | Isolated find | No | Valid Site |
| 37-6-2009 | KR06 | Artefact scatter | Yes | Site highly impacted and likely destroyed – site card update required |
| 37-6-2010 | KR07 | Artefact scatter | Yes | Surface collection has occurred |
| 37-6-2011 | KR08 | Artefact scatter | Yes | Surface collection has occurred |
| 37-6-2012 | KR08a | Artefact scatter | Yes | Surface collection has occurred |
| 37-6-2013 | KR09 | Artefact scatter | Yes | Surface collection has occurred |
| 37-6-2014 | KR10 | Artefact scatter/PAD | Yes | Surface collection has occurred |
| 37-6-2015 | KR11 | Grinding groove | Yes | Not a site – site card update required |
| 37-6-2016 | KR12 | Artefact scatter/PAD | Yes | Surface collection and test excavation has occurred |
| 37-6-2017 | KR13 | Artefact scatter/PAD | Yes | Surface collection and test excavation has occurred |
| 37-6-2064 | KR59 | Artefact scatter | Yes | Valid Site |
| 37-6-2066 | KR61 | Artefact scatter | Yes | Valid Site |
| 37-6-2067 | KR62 | Artefact scatter | Yes | Valid Site |
| 37-6-2151 | Branxton Rail 3 | Artefact scatter | Yes | Site destroyed ASIRF submitted – incorrect validity on AHIMS |
| 37-6-2154 | Branxton Rail 6 | Isolated find | No | Valid – Not relocated |

| Site ID | Site Name | Site Type | Relocated | Comment |
|---|---|---|---|---|
| 37-6-2159 | Branxton Rail 11 | Isolated find | No | Site destroyed – ASRIF submitted by Kuskie; AHIMS needs to update validity |
| 37-6-2160 | Branxton Rail 12 | Isolated find | No | Site destroyed – ASRIF submitted by Kuskie; AHIMS needs to update validity |
| 37-2-0543 | Telecom site 3 | Isolated find | No | Valid Site |
| 37-2-2213 | AN3 | Artefact Scatter | No | Valid Site |
| 37-2-2214 | AN4 | Artefact Scatter | No | Valid Site |
| 37-2-2215 | AN5 | Artefact Scatter | No | Valid Site |
| 37-2-2216 | AN6 | Artefact Scatter | No | Valid Site |
| 37-2-2217 | AN7 | Artefact Scatter | Yes | Valid Site |
| 37-2-2218 | AN8 | Artefact Scatter | Yes | Valid Site |
| 37-2-0098 | Black Hill Muscle Creek | Artefact Scatter | No | Valid Site |
| 37-2-1455 | NH2 | Artefact Scatter | No | Valid Site |
| 37-2-1845 | MW-IF-1 | Isolated Find | No | Valid Site |
| 37-2-1841 | MWOS3 | Artefact Scatter | No | Valid Site |
| 37-6-2269 | Maitland to Minimbah X3 | Artefact scatter | no | Site highly impacted/disturbed and likely destroyed - site card update required |
| 37-6-2935 | KR63 | Artefact scatter | Yes | Results are from test excavation area identified – sub surface potential confirmed |
| 37-6-3077 | MTW-503 | Isolated find | Yes | Valid Site |
| 37-6-3078 | MTW-502 | Isolated find | Yes | Valid Site |
| 37-6-3081 | MTW-499 | Isolated find | Yes | Valid Site |
| 37-6-3100 | MTW-470 | Isolated find | Yes | Valid Site |
| 37-6-3101 | MTW-469 | Isolated find | Yes | Valid Site |
| 37-6-3103 | MTW-467 | Artefact scatter | Yes | Valid Site |
| 37-6-3156 | MTW-481 | Isolated find | Yes | Valid Site |
| 37-6-3157 | MTW-480 | Isolated find | Yes | Valid Site |
| 37-6-3158 | MTW-479 | Isolated find | Yes | Valid Site |
| 37-6-3159 | MTW-478 | Isolated find | Yes | Valid Site |
| 37-6-3161 | MTW-476 | Isolated find | Yes | Valid Site |
| 37-6-3162 | MTW-475 | Isolated find | Yes | Valid Site |
| 37-6-3163 | MTW-474 | Artefact scatter | Yes | Valid Site |
| 37-6-3436 | HVO-1293 | Artefact scatter | Yes | Valid Site |
| 37-6-3437 | HVO-1294 | Isolated find | Yes | Valid Site |
| 37-6-3438 | HVO-1295 | Isolated find | Yes | Valid Site |
| 37-6-3439 | HVO-1296 | Artefact scatter/PAD | Yes | Valid Site |
| 37-6-3440 | HVO-1297 | Artefact scatter | Yes | Valid Site |
| 37-6-3441 | HVO-1298 | Artefact scatter | Yes | Valid Site |

| Site ID | Site Name | Site Type | Relocated | Comment |
|---|---|---|---|---|
| 37-6-3443 | HVO-1300 | Artefact scatter | Yes | Valid Site |
| 37-6-3453 | HVO-1310 | Isolated find | Yes | Valid Site |
| 37-6-3492 | HVO-1350 | Isolated find (axe) | No | Valid Site |
| 37-6-3835 | Mudies Creek Artefact 01 | Artefact scatter/ contact site | No | Southern side of Mitchell Line of Road will not be impacted |
| 37-6-3875 | NEH IF 01 | Isolated find | Yes | Site highly impacted and likely destroyed – no artefacts identified – site card update required |
| 37-6-3914 | NBR/NEH/GH/1 | Artefact scatter | Yes | Site highly impacted and likely destroyed – no artefacts identified – site card update required |
| 37-6-3966 | Mudies Creek Potential Archaeological Deposit | Artefact scatter/PAD | No | Southern side of Mitchell Line of Road will not be impacted |
| 37-6-4020 | 2010-HVOSE-12 | Artefact scatter | Yes | Site Valid |
| 37-6-4022 | 2010-HVOSE-14 | Artefact scatter | Yes | Site Valid |
| 37-6-4023 | 2010-HVOSE-15 | Artefact scatter | Yes | Site Valid |
| 37-6-4038 | 2010-HVOSE-16 | Artefact scatter | Yes | Site Valid |
| 37-6-4040 | 2010-HVOSE-05 | Artefact scatter | Yes | Site Valid |
| 37-6-4042 | 2010-HVOSE-07 | Artefact scatter | Yes | Site Valid |
| 37-6-4045 | HVO-1421 | Isolated find | Yes | Site Valid |
| 37-6-4051 | HVO-1689 | Isolated find | Yes | Site Valid |
| 37-6-4071 | HVO-1425 | Isolated find | Yes | Site Valid |
| 37-6-4073 | HVO-1422 | Artefact scatter | Yes | Site Valid |
| 37-6-4249 | Mudies Creek Artefact 02 | Artefact scatter | No | Southern side of Mitchell Line of Road will not be impacted |
| 37-6-4305 | MD028 | Isolated find | No | Valid site |

## 5.5 Review of Survey Results

Subsequent to completion of survey, the alignment for the project was revised and refined to avoid identified sites wherever possible. This resulted in several of the sites identified as being within the original alignment now being outside the area of potential impact. These sites are shaded grey in Table 11 above, and are unlikely to be impacted as part of the proposed works. However, they remain within the assessment as they have been considered as part of the proposal. A number of sites were identified as being within the original alignment but can be avoided by the proposed works.

The refined results identified several areas with sensitive landforms with potential for subsurface deposits to be present which could not be avoided, and further

investigation of those areas through test excavation was recommended. This is detailed in the following section.

## 5.6 New Sites

Twenty six additional new sites were identified during the survey (Table 12). These comprised sixteen artefact scatters, nine isolated finds and one artefact scatter with PAD.

Table 12: Newly identified Aboriginal sites located within the study area.

| Site ID | Site Name | Site Type | Context | Comment |
|---|---|---|---|---|
| 37-6-4458 | CR-AS-001 | Artefact Scatter | Open Site | |
| 37-6-4453 | CR-IF-01 | Isolated Find | Open Site | |
| 37-6-4454 | CR-AS-02 | Artefact Scatter | Open Site | |
| 37-6-4455 | CR-IF-02 | Isolated Find | Open Site | |
| 37-6-1308 | CR-AS-03 | Artefact Scatter | Open Site | Additional artefacts identified at this previously salvaged location |
| 37-6-4456 | TL-IF-01 | Isolated Find | Open Site | |
| 37-6-4457 | TL-IF-02 | Isolated Find | Open Site | |
| 37-6-4459 | PH-AS-01 | Artefact Scatter | Open Site | |
| 37-6-4460 | PH-AS-02 | Artefact Scatter | Open Site | |
| 37-6-4461 | EC-AS-01 | Artefact Scatter | Open Site | |
| 37-6-4462 | EC-AS-02 | Artefact Scatter | Open Site | |
| 37-6-4463 | SSTS-AS-01 | Artefact Scatter | Open Site | Avoided |
| 37-6-4464 | KL-IF-01 | Isolated Find | Open Site | |
| 37-6-4465 | KL-AS-02 | Artefact Scatter | Open Site | |
| 37-6-4466 | KL-IF-02 | Isolated Find | Open Site | |
| 37-6-4467 | KL-AS-03 | Artefact Scatter | Open Site | |
| 37-6-4468 | SSTS-AS-02 | Artefact Scatter | Open Site | Avoided |
| 37-6-4469 | SSTS-AS-03 | Artefact Scatter | Open Site | Avoided |
| 37-6-4470 | SSTS-AS-04 | Artefact Scatter | Open Site | Avoided |
| 37-6-4472 | SSTS-AS-05 | Artefact Scatter | Open Site | Avoided |
| 37-6-4471 | MD-AS-01 | Artefact Scatter | Open Site | |
| 37-6-4473 | MD-IF-01 | Isolated Find | Open Site | |
| 37-6-4474 | MD-AS-02 | Artefact Scatter | Open Site | |
| 37-3-1665 | MD-IF-02 | Isolated Find | Open Site | |
| 37-3-1666 | MD-AS-03 | Artefact Scatter/PAD | Open Site | |
| 37-2-6645 | WR-IF-01 | Isolated Find | Open Site | |

At CR-AS-03, additional artefacts were identified at a previously registered site that was noted to have been salvaged by Umwelt as part of the Hunter Expressway works. This is further discussed below. As such, this was not registered as a new site but is noted as a previously recorded site, containing newly identified artefacts.

The grey shading for SSTS-AS-01 to 05 indicates these new sites were originally recorded during the survey; however following further refinement of the STL alignment options means that these five sites will not be impacted by the proposal, as the eastern arm option of the STL alignment where these sites were identified has been removed from the overall assessment and will not be considered further. These sites have been recorded on AHIMS but will not be impacted as part of the current proposal.

### CR-AS-001 (AHIMS # 37-6-4458)

Artefact scatter located within the sub-transmission line easement approximately 750m north of Lovedale Road and approximately 134m south west of Camp Road. Two artefacts identified.

Plate 103: Context shot of CR-AS-01 looking north along STL easement.

Plate 104: Silcrete core and flake associated with CR-AS-01.

### CR-IF-01 (AHIMS # 37-6-4453)

Isolated find located 1.2km north west of Lovedale Road within the sub-transmission line easement and approximately 56m south west of Camp Road.

Plate 105: Context shot of CR-IF-01 looking north within STL easement.

Plate 106: Silcrete flake associated with CR-IF-01

### CR-AS-02 (AHIMS # 37-6-4454)

Artefact scatter located approximately 1.4km north west of Lovedale Road and 40m from Camp Road along the sub-transmission line easement. Three artefacts identified.

Plate 107: Looking north along the STL easement across location of CR-AS-02.

Plate 108: IMSCT flake and Silcrete flakes associated with CR-AS-02

### CR-IF-02 (AHIMS # 37-6-4455)

Isolated find 420m north of Camp Road and 24m west of the Hunter Express Way within the STL easement.

Plate 109: Context shot location of CR-IF-02 within the STL easement looking south.

Plate 110: Silcrete flake (ventral & dorsal surface) associated with CR-IF-02

### CR-AS-03 (AHIMS 37-6-1308)

Artefact scatter located at AHIMS site 37-6-1308. Site location was salvaged in 2010 by Umwelt as a part of the Hunter Expressway works; however was not updated on AHIMS as destroyed. Artefacts identified during the current assessment are located within the same location as AHIMS site 37-6-1308 and as such a new site recording will not be made. Site is located 1.3km south of Tuckers Lane and approximately 30m west of the Hunter Expressway. Two artefacts identified.

Plate 111: Looking south over CR-AS-03 (AHIMS site 37-6-1308).

Plate 112: Silcrete flake and IMSTC proximal flake associated with CR-AS-03 (AHIMS site 37-6-1308).

### TL-IF-01 (AHIMS # 37-6-4456)

Isolated find located along the STL easement approximately 150m north of Tuckers Lane and 500m west of the Hunter Expressway.

Plate 113: Looking north over context location of TL-IF-01.

Plate 114: Silcrete flake associated with TL-IF-01

### TL-IF-02 (AHIMS # 37-6-4457)

Isolated find located approximately 430m north of Tuckers Lane and 480m west of the Hunter Express Way. Site is situated on the southern terrace of Sawyers Creek within the STL easement.

Plate 115: Looking north over TL-IF-02.

Plate 116: IMSTC flake associated with TL-IF-02

### PH-AS-01 (AHIMS # 37-6-4459)

Artefact scatter located 340m east of Pothana Road and 350m south of the New England Highway within the STL easement. Two artefacts identified.

Plate 117: Looking west over PH-AS-01 within STL easement.

Plate 118: Silcrete flakes associated with PH-AS-01

### PH-AS-02 (AHIMS # 67-6-4460)

Artefact Scatter located 20m east of Pothana Road and approximately 235m south of the New England Highway. Two items forming a conjoin artefact identified.

Plate 119: Looking west over PH-AS-01 within STL easement.

Plate 120: Silcrete flake (conjoin) associated with PH-AS-01

### EC-AS-01 (AHIMS # 37-6-4461)

Artefact scatter located approximately 300m south west of the New England Highway and 1.3km east of the Main Northern Railway. Five artefacts identified.

Plate 121: Looking north west over EC-AS-01 along dam wall within STL easement.

Plate 122: Silcrete core, IMSTC core and silcrete flakes associated with EC-AS-01

### EC-AS-02 (AHIMS # 37-6-4462)

Artefact scatter located slightly outside of the STL easement approximately 262m south of the New England Highway and 730 east of the Main Northern Railway. Two artefacts identified.

Plate 123: Looking north over EC-AS-02.

Plate 124: Silcrete flakes associated with EC-AS-02.

### SSTS-AS-01 (AHIMS # 37-6-4463)

Artefact scatter located directly east of the Singleton STS site within the STL easement. Nine artefacts identified.

Plate 125: Looking north west over SSTS-AS-01 with the STL easement.

Plate 126: IMSTC flakes associated with SSTS-AS-01

### KL-IF-01 (AHIMS # 37-6-4464)

Isolated find located within farm paddock (109 Knodlers Lane) approximately 70m east of Knodlers Lane and 30m west of the STL easement.

Plate 127: Silcrete flake associated with KL-IF-01 (dorsal).

Plate 128: Silcrete flake associated with KL-IF-01 (ventral).

### KL-AS-02 (AHIMS # 37-6-4465)

Artefact scatter located within the STL easement 156m east of Knodlers Lane within 109 Knodlers Lane. Five artefacts identified.

Plate 129: Close up of artefacts from KL-AS-02

Plate 130: Silcrete flakes and IMSTC core associated with KL-AS-02

### KL-IF-02 (AHIMS # 37-6-4466)

Isolated find located within 109 Knodlers Lane. Site located approximately 190m east of Knodlers Lane.

Plate 131: Looking north over KL-IF-01 within STL easement.

Plate 132: IMSTC Core associated with KL-IF-02

### KL-AS-03 (AHIMS # 37-6-4467)

Artefact scatter approximately 270m east of Knodlers Lane either side of an unnamed drainage line within areas of exposure and on ant nests. Site consists of 25 artefacts (17 of silcrete and IMSTC – nine post contact glass).

Plate 133: Looking north over KL-AS-03.

Plate 134: Looking north over KL-AS-03..

Plate 135: IMSTC flake and glass flakes associated with KL-AS-03.

### SSTS-AS-02 (AHIMS # 37-6-4468)

Artefact scatter located 280m south east of the Singleton STS and 410m south of Maison Dieu Road. Site consists two items forming a conjoin IMSTC flake.

Plate 136: Context shot of IMSTC conjoin (SSTS-AS-01)

Plate 137: IMSCT conjoin flake associated with STS-AS-02

### SSTS-AS-03 (AHIMS # 37-6-4469)

Artefact scatter located on erosional scour within the STL easement. Site located approximately 870m south east of Singleton STS and 944m south of Maison Dieu Road. Fourteen artefacts identified.

Plate 138: Looking south over SSTS-AS-03 and close up context shot of IMSTC items.

Plate 139: IMSTC flakes associated with SSTS-AS-03

### SSTS-AS-04 (AHIMS # 37-6-4470)

Artefact scatter located on erosion scour within the easement. Site is located approximately 1km south east of the Singleton STS and 987m south of Maison Dieu Road. Nine artefacts identified. Artefacts located on the surface of erosion scours and area is not considered to have potential for subsurface deposits to be present.

Plate 140: Looking south over SSTS-AS-04 within STL easement

Plate 141: IMSTC flakes and core associated with SSTS-AS-04.

### SSTS-AS-05 (AHIMS # 37-6-4472)

Artefact scatter located along STL easement within area of severe erosion. Site located approximately 1.5km south east of Singleton STST and 1.4km south of Maison Dieu Road. Five artefacts identified. Artefacts located on the surface of erosion scours and area is not considered to have potential for subsurface deposits to be present.

Plate 142: SSTS-AS-05 close up and looking over severe erosional scour where items were identified.

Plate 143: IMSTC core, flake and Silcrete flake associated with SSTS-AS-05.

### MD-AS-01 (AHIMS # 37-6-4471)

Artefacts scatter located 1.7km north of Singleton STS within the STL easement. Two artefacts identified.

Plate 144: Close up of MD-AS-01.

Plate 145: Silcrete core and flake associated with MD-AS-01

### MD-IF-01 (AHIMS # 37-6-4473)

Isolated find located approximately 2.7km north of the singleton STS within the STL easement.

Plate 146: Looking north over MD-IF-01 within STL easement.

Plate 147: Silcrete core associated with MD-IF-01

### MD-AS-02 (AHIMS # 37-6-4474)

Artefact scatter located along STL easement approximately 3.3km north of Singleton STS. Three artefacts identified.

Plate 148: Looking north over MD-AS-02 within STL easement.

Plate 149: IMSTC core, flake and mudstone flake associated with MD-AS-02

### MD-IF-02 (AHIMS # 37-3-1665)

Isolated find located approximately 3.9km north of the Singleton STS within the STL easement.

Plate 150: Silcrete core (MD-IF-02).

Plate 151: Silcrete core (MD-IF-02).

### MD-AS-03 (AHIMS # 37-3-1666)

Artefact scatter and area of PAD (Camberwell Zone of Archaeological Potential) located either side of unnamed drainage line associated with Glennies Creek. More than 100 artefacts identified. Site is located 1.1km south west of the New England Highway

Plate 152: Looking west over MD-AS-03.

Plate 153: Silcrete and IMSTC flakes associated with MD-AS-03

#### WR-IF-01 (AHIMS # 37-2-6645)

Isolated find located approximately 85m south of Woodland Ridge Road within the STL easement.

Plate 154: Silcrete core (WR-IF-01).

Plate 155: Silcrete core (WR-IF-01).

### 5.6.1 Zones of Archaeological Potential/Sensitivity

As a result of the assessment and survey, a number of zones of archaeological potential or sensitivity were identified. This was generally based on the number of previously registered sites in close proximity and consideration of current archaeological evidence in association with assessment of the landform. These zones are discussed below.

#### Moderate zone of potential (AMBS 2009)

This Moderate Zone of Archaeological potential was identified by AMBS (2009). The area is located from the Hunter Expressway and runs approximately 3.6km north west. The area has been previously archaeologically tested prior to pole

replacement/upgrades and this confirmed the area contained moderate artefact bearing deposits in some locations.

#### Black Creek

The Black Creek Zone is located around AHIMS site 37-6-2156 which is listed as destroyed but a high level of archaeological potential remains around Black Creek. This area likely represents an important place to the local Aboriginal community, based on feedback received during the site inspection and many previous assessments undertaken in the vicinity over the last 15 years.

#### Jerrys Plains Zone of Subsurface archaeological potential

This zone comprises a site complex of a number of individual and concentrations of artefact recordings undertaken by Scarp Archaeology in 2011. No report regarding these sites could be identified; however the area compromises a prolific archaeological resource spread over a large area with sub surface potential.

#### Gouldsville – Western Corridor – Archaeologically Sensitive Zone

This zone is approximately 2.4km long and consists of 17 previously recorded artefact scatter locations within a raised terrace on the southern side of the Hunter River. This area had been disturbed by prior land clearing activities and earthworks and access track construction associated with the existing transmission and sub-transmission line route running through the area; however the archaeological resource is eroding from the ground and washing in from the sides in numerous areas. This area has seen some previous attempts to fence and delineate areas of sensitivity however the majority of the fencing is in a dilapidated state and further erosion and sheet wash within the area is causing severe site disturbance.

#### Gouldsville – Eastern Corridor – Archaeologically Sensitive Zone

This zone is approximately 640m long and consists of three previously recorded artefact scatter locations within a raised terrace on the southern side of the Hunter River. This area had been disturbed by prior land clearing activities and earthworks and access track construction associated with the existing transmission and sub-tranmission line route running through the area; however the archaeological resource is eroding from the ground and washing in from the sides in this area as well. Raw material resources are prolific along with artefact occurrences.

#### Knodlers Lane Zone of Moderate Potential 1

This zone is located within the property located at 109 Knodlers Lane. Three artefact sites were identified along with an area of moderate sub surface archaeological potential. Site is located along a raised area within the Transmission Line easement.

#### Knodlers Lane Zone of Moderate Potential 2

This zone is located on either side of an unnamed drainage line associated with the Hunter River within the property located at 863 Maison Dieu Road. This site has moderate potential for subsurface deposits, along with the fact it is a post contact site due to the presence of glass artefacts interspersed with stone objects.

#### CAMBERWELL ZONE OF HIGH POTENTIAL

This zone is located either side of an unnamed drainage line associated with Glennies Creek. Artefacts were eroding out of the edges of a scour. Deposit was prolific with more than 100 artefacts observed within a small area with the potential for high density subsurface deposits to occur within this area.

#### BOWMANS CREEK ZONE OF ARCHAEOLOGICAL SENSITIVITY

This zone has previously been identified as AHIMS sites 37-3-0500 & 37-3-0006. This area is an archaeological complex consisting of a prolific artefact scatter and grinding groove complex on the southern bank of Bowmans Creek. It was subject to a surface collection in 1979; however artefacts still remain on the ground surface. The area has been recommended for conservation and avoidance; however no management plan has been identified for this site. The grinding groves in this location are within fine grained sandstone and conglomerate sandstone which is very friable and cracking apart (Plate 156).

Plate 156: Grinding grooves within friable sandstone (AHIMS site 37-3-0500 & 37-3-0006).

## 5.7 DISCUSSION

A total of 26 new artefact sites were recorded during this assessment. These consisted of nine isolated finds and 15 artefact scatters and one artefact scatter (post contact site) with associated PAD and one prolific artefact scatter site with associated PAD. A further nine zones of archaeological potential/sensitivity were identified within the sub-transmission line corridor.

### 5.7.1 KL-AS-03 (AHIMS # 37-6-4467)

This site was located within the newly identified Knodlers Lane Zone of Moderate Potential 2, with a number of stone artefacts interspersed with flaked glass items.

The assessment of glass pieces as Aboriginal glass artefacts is not straightforward for several reasons (Goward 2011; Munt 2022; Richardson 2004; White 2018):

- European materials used by Aboriginal people in the early historic phase are of the same types of materials used by Europeans and found in historical contexts (i.e. glass, ceramics);
- Glass and ceramics can fragment accidentally, resulting in flaking or damage with some traits similar to those of deliberate flaking or tool use;
- Randomly smashing a bottle can result in edges suitable for use as tools; it was not necessary to flake glass bottles to obtain useable pieces;
- Microscopic usewear and/or residues may identify glass or other fragments used as tools, but microscopic analysis will not identify materials which were by-products of flaking/breakage;
- Materials or objects used and discarded by Aboriginal people probably formed low density scatters which accumulated over a relatively short time span, of less than c.100 years. Focused knapping/breakage activities would have resulted in larger numbers of objects but would probably be of limited spatial extent. High density Contact/Historic Phase sites may be rare.

Criteria for identifying glass artefacts have been proposed and/or reviewed by several workers (Goward 2011; Harrison 2000; Munt 2022; Munt and Owen 2022; Richardson 2004; White 2018). Criteria include (not in order of importance):

- Available historical evidence – oral histories, historical documents – which support the presence of Aboriginal people at the location;
- The presence of associated contemporary materials – shell midden, fish hook technology, Contact phase rock art, scarred trees, stone artefacts, burials;
- Glass dateable to the late 18th and early 19th centuries, based on method of manufacture, makers' mark, colour, imperfections (e.g. bubbles);
- Presence of usewear and/or residues confirming use of glass as tools;
- Presence of technological attributes similar to those used to identify stone artefacts;
- Evidence of a reduction sequence – cores and flakes, worked and unworked fragments from the same bottle, refitting fragments, preference for thicker glass (bottle base or shoulder), evidence of systematic reduction;
- Presence of convincing retouch – continuous retouch, regular scar size, scar location on functional edges, regular orientation and initiation of scars, relative age of scars (e.g. scars as weathered as original glass surfaces);
- Absence of attributes related to unintentional damage – intermittent scars, large isolated scars, scars of irregular size, steep scars, crushing on high

points/parts of the object, scars less weathered than the original surface of the bottle;
- Context, including the absence of taphonomic processes related to incidental flaking – these may include animal trampling, vehicle traffic, agricultural activity, construction work, 19th century rubbish dumping.

In addition, the probability of an item being an Aboriginal glass artefact could be assessed, taking into account various information (Richardson 2004; White 2018). Glass items have:

- No or extremely low probability of being Aboriginal artefacts if they are of glass which was manufactured too recently, no flaking or modification is present, scars are newer (less weathered) than the original glass surfaces, or if all scarred edges are non-functional (located on the item in positions which would not have been practical for tool use or for flake production);
- Low probability if edge scars are irregular or in isolated locations, if any edges are in non-functional locations, or if found amongst numerous other varied historic/modern items;
- Moderate probability if glass is sufficiently old, and flaking resembles Aboriginal stone artefacts (cores, tools, debitage) with convincing retouch;
- High probability if glass dates to the late 18th or early 19th century, usewear and/or tool use residues are present, flaking resembles Aboriginal stone artefacts (cores, tools, debitage) with convincing retouch, evidence of a reduction sequence is present, and the items do not occur amongst European fill or rubbish.

With regard to the glass items identified at KL-AS-03 (AHIMS # 37-6-4467), given the nature of the current assessment and the fact that items could not be removed from site for detailed microscopic and other analysis, it is difficult to definitively state that the glass items identified were culturally modified by Aboriginal people. However, given the context in which they were located, in association with other stone artefacts and away from rubbish or fill; and in an abundance of caution, the glass items have been recorded as Aboriginal contact artefacts.

# 6.0 Test Excavation

Following the identification of numerous areas of archaeological potential, and formalisation of the proposed route for the alignment, test excavations were undertaken in areas of potential which could not be avoided by the alignment route. Test excavations were undertaken over three weeks in February and March 2025, with additional areas tested in April 2025. These additional areas were inaccessible in January and February following significant rainfall. This section discusses the results of the test excavation.

An updated test excavation methodology was prepared in January 2025 following confirmation of the proposed alignment for the project and sent to the RAPs. This is discussed further in the ACHA for the project. The test excavation was completed in accordance with the approved methodology.

Of the nine zones of archaeological sensitivity identified during the survey, the following six areas were not able to be avoided by the proposed works and as such further investigation in the form of test excavation was required to understand the nature and extent of this potential:

- Moderate Zone of Potential (AMBS 2009) – Zone 1
- Black Creek – Zone 2
- Jerrys Plain – Zone 3
- Knodlers Lane 1 – Zone 4
- Knodlers Lane 2 – Zone 5
- Camberwell (MD-AS-01) – Zone 6

The locations of each of these areas of sensitivity are shown on the following figures.

However, at Knodlers Lane 2 (Zone 5), nine flaked glass artefacts were identified on the ground surface, interspersed with silcrete and IMSTC stone artefacts. This area is considered to have subsurface archaeological potential, but as flaked glass items were identified, test excavation under the Code of Practice cannot be undertaken at this site. Any work at this site will require an AHIP and management recommendations for this site will be outlined in later sections. As such, no test excavation was undertaken at this location at this time.

PO Box 236
NOWRA
NEW SOUTH WALES 2541

0 0.55 1.1

kilometres

Projection:
MGA Zone 56 (GDA 94)
Base Map:
Bing Maps 2025
Final - Version 1

Figure 31: Zone 1 Test Pit Locations

PO Box 236
NOWRA
NEW SOUTH WALES 2541

0 135 270

metres

Projection:
MGA Zone 56 (GDA 94)
Base Map:
Bing Maps 2025
Final - Version 1

Figure 32: Zone 2 Test Pit Location

PO Box 236
NOWRA
NEW SOUTH WALES 2541

0 135 270

metres

Projection:
MGA Zone 56 (GDA 94)
Base Map:
Bing Maps 2025
Final - Version 1

Figure 33: Zone 3 Test Pit Locations

PO Box 236
NOWRA
NEW SOUTH WALES 2541

0 420 840

metres

Projection:
MGA Zone 56 (GDA 94)
Base Map:
Bing Maps 2025
Final - Version 1

Figure 34: Zone 4 and 5 Test Pit Locations

PO Box 236
NOWRA
NEW SOUTH WALES 2541

0 420 840

metres

Projection:
MGA Zone 56 (GDA 94)
Base Map:
Bing Maps 2025
Final - Version 1

Figure 35: Zone 6 Test Pit Locations

At each proposed pole location, test excavation was undertaken in the arrangement as shown on Figure 36. In areas where an existing pole was located but required replacement in place (pluck and replace), only the four external test pits were excavated to understand the nature and extent of subsurface deposits prior to potential impact by vehicles necessary for the replacement.

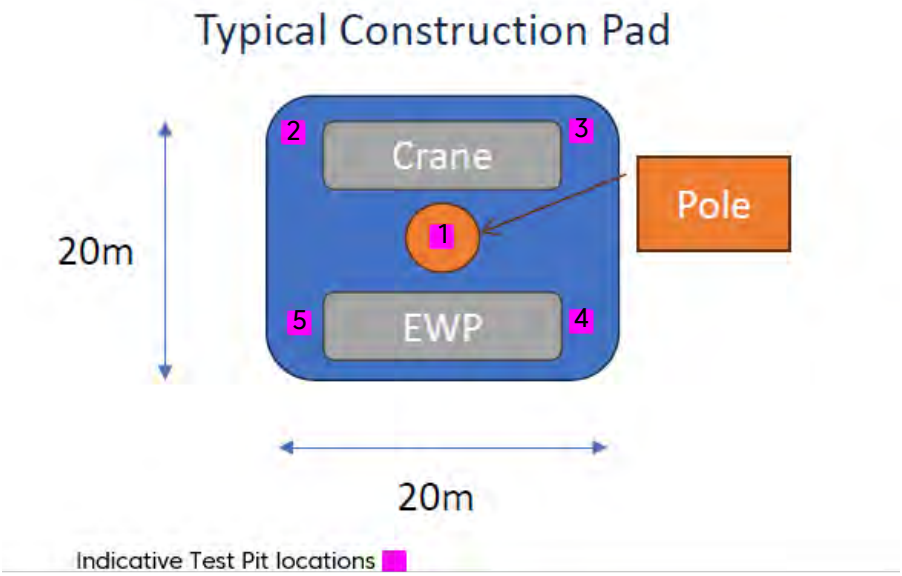


Figure 36: Test pit layout at proposed pole locations with numbers indicating TP numbering

In addition, an access track within the Jerrys Plain area of sensitivity required test excavation. At that location, a total of 26 test pits were excavated along the access track.

In total, 116 test pits were excavated across the study area. This included 104 initial test pits, with four of these expanded to 1m$^2$ due to artefact concentrations, making a total of 116 50 x 50 cm test pits excavated across the four zones of sensitivity.

Test pits ranged in depth from approximately 10cm through to 80cm depending on their locations. In general, soils comprised clayish silts with some gravels. Ironstone inclusions were common and soils were often quite compact. Disturbance was noted at some locations but was generally confined to the ground surface with more intact deposits located at depth.

The results of the lithic assemblage recovered are presented in Section 7 below.

# 7.0 Lithic Analysis

The majority of section has been prepared by Dr Beth White of Beth White Archaeology. Section 7.13 onwards was prepared by Jenni Bate of Apex Archaeology, based on Dr White's analysis.

## 7.1 Introduction

This report provides an analysis of Aboriginal lithic objects from test excavations carried out for the Hunter Renewable Energy Zone, between Kurri Kurri and Muswellbrook in the Hunter Valley lowlands.

A total of 170 flaked artefacts and four heat shatters of cultural stone were recovered (Table 13). An additional 122 pieces of chalcedony and crystalline quartz in Zone 1 could not be conclusively identified as artefacts. Two other broken pieces of probable cultural stone were also found (one in Zone 1 and one in Zone 4).

A previous microscopic use-wear/residue study by AMBS (2015) of a chalcedony/vein quartz assemblage in proximity to Pole 4 and Pole 7 found that suitable chalcedony/vein quartz pieces had been utilised in functional tasks. Hence, some of the chalcedony and vein quartz pieces in the current study may also be objects under the National Parks and Wildlife Act. It is suggested that a precautionary approach be adopted regarding management of chalcedony and vein quartz in Zone 1.

In the current study the largest numbers of artefacts were found at Poles 1, 3, 10 and 17 (Table 13). The largest numbers of chalcedony and vein quartz occurred at Pole 4; all chalcedony/vein quartz occurred in Zone 1.

Table 13: Summary of objects found by test excavations.

| Zone | Pole | Artefacts | Heat shatters | Others | Total | Zone Total |
|---|---|---|---|---|---|---|
| 1 | 1 | 69 | | | 69 | 234 |
| | 3 | 38 | 1 | 2 | 41 | |
| | 4 | | | 108 | 108 | |
| | 5 | 2 | | 5 | 7 | |
| | 6 | 1 | | 2 | 3 | |
| | 7 | | | 4 | 4 | |
| | 8 | | | 1 | 1 | |
| | 9 | | | 1 | 1 | |
| 2 | 10 | 16 | 1 | | 17 | 17 |
| 3 | track | 9 | | | 9 | 11 |
| | 14 | 1 | | | 1 | |
| | 15 | | 1 | | 1 | |
| 4 | 16 | 6 | | 1 | 7 | 33 |
| | 17 | 25 | 1 | | 26 | |
| 6 | 19 | 3 | | | 3 | 3 |
| **Total** | | **170** | **4** | **124** | **298** | **298** |

## 7.2 Zone 1 Pole 1

### 7.2.1 Pole 1 lithics from the current excavation

The Pole 1 location was on the west (left) side of Sawyers Gully, which was a third order stream. Sixty-nine (69) artefacts were recovered by testing at Pole 1. Forty-six artefacts occurred in the initial 50 x 50 cm test pit at TP2 and 21 artefacts. Only two artefacts occurred in TP3 and none were found in TP4 or TP5 (Figure 37). Artefacts may have had a discontinuous spatial distribution with high density concentrations present in a low density scatter.

Most of the artefacts were of silcrete, with others of IMST and one each of quartz and FGS (Table 14). Diversity of material types indicated that multiple lithic activities were carried out at this location. The assemblage included three silcrete backed artefacts in TP2. These were triangular to trapezoid in shape and had similar dimensions of 18 to 20 mm long and 13 to 16 mm maximum width (Plate 157, Plate 158, Plate 159). They may have been made by the same person, or people with similar social affinities, or to comply with similar hafting requirements (e.g. Munt et al. 2023; Way et al. 2023).

A broken unifacial core of the same material occurred in TP2; this weighed 60.5 g and would have been larger prior to breakage (Plate 160). It retained extensive cortex, and was probably a flaked cobble. It was flaked unifacially from two platforms; i.e. rotated during reduction. Other flaked artefacts of the same material were also present, indicating that silcrete was intensively flaked and backed artefacts were made here. Fifteen silcrete artefacts retained classifiable platforms – eight of these were plain, but the other half were variously ridged, faceted or focal. Flaking involved core rotation, and one or more additional cores (at least one with platform faceting) were probably present at this site, but not recovered by the test excavation.

An IMST retouched flake (Plate 161) may have been used as a tool, although microscopic use-wear/residue analysis would be necessary to confirm this.

Vertically, artefacts were spread through the deposit, with the highest counts occurring in spit 3, of TP2 (Table 15).

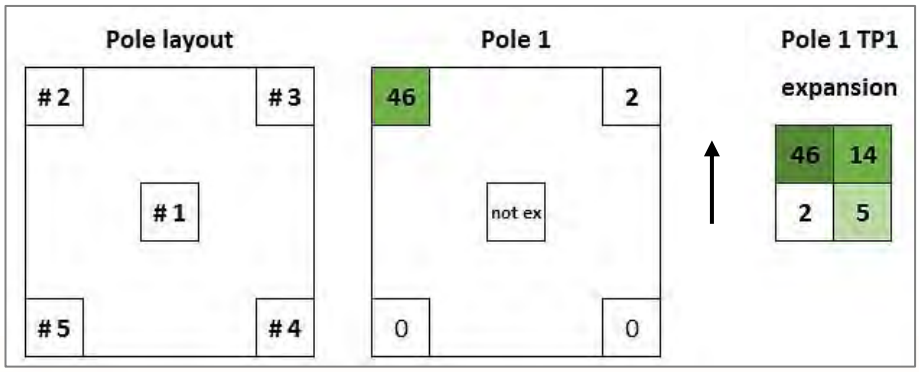


Figure 37 Pole 1 spatial distribution of artefacts in initial test pits and in expanded test pit #1.

Table 14 Materials and artefact types at Zone 1 Pole 1.

| Type | Silcrete | IMST | Quartz | FGS | Total |
|---|---|---|---|---|---|
| Backed artefact | 3 | | | | 3 |
| Retouched artefact | | 1 | | | 1 |
| Core | 1 | | | | 1 |
| Platform artefact | 24 | 6 | 1 | | 31 |
| FF/FP artefact | 30 | 2 | | 1 | 33 |
| **Total** | **58** | **9** | **1** | **1** | **69** |

Plate 157 Silcrete backed artefact ID 2, from Zone 1 Pole 1 TP2 quad B spit 1.
Scale 5 mm long in 1 mm increments.

Plate 158 Silcrete backed artefact ID 24, from Zone 1 Pole 1 TP2 quad A spit 1.
Scale 5 mm long in 1 mm increments.

Plate 159 Silcrete backed artefact ID 56, from Zone 1 Pole 1 TP2 quad A spit 4.
Scale 5 mm long in 1 mm increments.

Plate 160 Silcrete core, ID 1, from Zone 1 Pole 1 TP2 quad B spit 1.
Scale 10 mm long in 1 mm increments.

Plate 161 IMST retouched flake, ID 19 from Zone 1 Pole 1 TP2 quad D spit 1.
Scale 10 mm long in 1 mm increments.

Table 15 Vertical distribution of artefacts at Zone 1 Pole 1.

| Spit | TP2 | TP3 | Total |
|---|---|---|---|
| 1 | 7 | 1 | **8** |
| 2 | 9 | 1 | **10** |
| 3 | 35 | | **35** |
| 4 | 14 | | **14** |
| n/a | 2 | | **2** |
| **Total** | **46** | **2** | **69** |

Table 16 Materials at Zone 1 Pole 1 and site KR08a.

| Site | Silcrete | IMST | Quartz | FGS | Total |
|---|---|---|---|---|---|
| Pole 1 | 58 | 9 | 1 | 1 | **69** |
| KR08a | 1 | 6 | | | **7** |
| **Total** | **59** | **15** | **1** | **1** | **76** |

### 7.2.2 LITHICS RECORDED BY PREVIOUS STUDIES NEAR POLE 1

The Pole 1 testing was located in proximity to AHIMS site 37-6-2012, recorded as KR08a (AMBS 2009). Seven artefacts were flakes and broken flakes. Six were of IMST and one was of silcrete. Maximum size was not recorded, but block measures indicated that all artefacts except one of IMST were more than 20 mm in size; the largest weighed 19 g.

AHIMS site 37-6-1347 (Sawyers Gully RTA3) occurred on both sides of Sawyers Gully, beside the sub-transmission line easement. Eighty-six (86) artefacts were observed over a total area of c.150 x 200 m, but artefact recordings were not included with information on the AHIMS site recording form.

Site 37-6-2012 and 37-6-1347 were probably parts of the same site.

The results of excavations at nearby RTA-PAD13 (site 37-6-1365) were not available for comparison, as the report could not be located within the AHIMS catalogue.

The evidence from the current test excavation at Pole 1, and the previous recordings at KR08a, indicated that localised lithic activities were carried out using silcrete, IMST and other material types. Activities included production of backed artefacts and other functional tasks were probably also carried out.

Excavation of five test pits at Pole 2 for the current study (total of 1.25 $m^2$) did not identify any artefacts. Previous excavations by AMBS (2015) further west, c.140 m west of Sawyers Gully at their poles GR89347, GR89348 and GR89349, did not find any artefacts despite excavation of 6.75$m^2$. The combined evidence from various surface survey and excavations indicated that site 37-6-2012 was spatially associated with Sawyers Gully, and may have extended westwards for c.100 m or so.

## 7.3 Zone 1 Chalcedony and vein quartz at Poles 3 to 9

Chalcedony and associated crystalline vein quartz had previously been found at some sites in Zone 1, for the Redbank to Kurri Kurri sub-transmission line study (AMBS 2015). In that study pieces of this material occurred on elevated landforms, mostly the crests of spurs. One piece of chalcedony was recorded as a flake and another as a proximal broken flake, but most of the chalcedony and vein quartz lacked definite evidence of flaking. Microscopic use-wear/residue analysis found that some of the indeterminate pieces had been used in functional tasks – two pieces were used as drills, two were used for piercing soft materials such as skin or hide and two were used for incising wood (AMBS 2015). Even though the indeterminate pieces of chalcedony and vein quartz lacked technical features indicative of flaking at least some of them were Aboriginal objects.

Most of the chalcedony/vein quartz pieces occurred at poles 89392/89393 of the AMBS study (n=106); Pole 4 of the current study was spatially associated with this location. Chalcedony was also found by AMBS at poles 79396/79397 (n=22), in the vicinity of Pole 7 of the current study.

The current test excavations in Zone 1 recovered 122 pieces of chalcedony and vein quartz. While a few pieces had conchoidal surfaces, partial negative scars and angular margins (Plate 162 to Plate 165), none had definitive impact points or bulbs of percussion, so it could not be said that they were artefacts. However, given the results of the AMBS (2015) study, it is possible that some were cultural objects. Hence, they were retained in the current study.

In the current study most of the chalcedony and vein quartz occurred at the Pole 4 location, with fewer pieces found at Poles 5 to 9, and Pole 3 (Table 17). Average densities decreased from Pole 4 towards the north-west, and perhaps towards the south-east. Chalcedony probably occurred naturally in the vicinity of Pole 4. As the material was not of good flaking quality it may have been used to supplement supplies of other transported materials (silcrete, IMST, others), and carried only 1-2 km for use on other sites (Pole 9 being c.1.4 km from Pole 4).

Plate 162 Chalcedony piece which resembled a dorsal surface or core fragment, ID 143, from Zone 1 Pole 4 TP3 spit 3.

Scale 5 mm long in 1 mm increments.

Plate 163 Chalcedony piece with conchoidal fracture surface, ID 180, from Zone 1 Pole 7 TP4 spit 1.

Scale 5 mm long in 1 mm increments.

Plate 164 Chalcedony piece with hinge termination on 'dorsal', ID 183, from Zone 1 Pole 7 TP5 spit 1.

Plate 165 Vein quartz piece with incipient crystal facets, ID 113, from Zone 1 Pole 4 TP1 spit 1.

Scale 5 mm long in 1 mm increments.

Table 17 Chalcedony and vein quartz in test pits in Zone 1.

| Pole | TP | Chalcedony | Vein quartz | Total | Total | Average density/m² |
|---|---|---|---|---|---|---|
| 3 | 3 | 1 | | 1 | **1** | **0.8** |
| 4 | 1 | 30 | 12 | 42 | **108** | **86.4** |
| | 2 | 8 | 6 | 14 | | |
| | 3 | 7 | 2 | 9 | | |
| | 4 | 20 | 15 | 35 | | |
| | 5 | 7 | 1 | 8 | | |
| 5 | 2 | 2 | | 2 | **5** | **5.0** |
| | 3 | 1 | | 1 | | |
| | 5 | 2 | | 2 | | |
| 6 | 3 | 1 | | 1 | **2** | **1.6** |
| | 5 | | 1 | 1 | | |
| 7 | 4 | 4 | | 4 | **4** | **1.3** |
| 8 | 1 | 1 | | 1 | **1** | **0.8** |
| 9 | 5 | 1 | | 1 | **1** | **0.8** |
| **Total** | | **84** | **37** | **122** | **122** | **-** |

## 7.4 Zone 1 Pole 3

### 7.4.1 Pole 3 lithics from the current excavation

The Pole 3 location was on the east (right) side of a second order stream. Thirty-eight (38) flaked artefacts, one heat shatter and two broken pieces of cultural stone were found at Pole 3 (Table 18). These included two small fragments of backed artefacts; one of silcrete and one of black chert. A silcrete retouched flake may have been an implement, or retouched in anticipation of use (Plate 166). Most of the assemblage comprised platform artefacts (flake, proximal and cone-split broken flakes) and FF/FP artefacts (medial and distal flake fragments and flaked pieces). Also present was a single silcrete heat shatter, and a small piece of white chalcedony. A broken piece of red chert may have derived from a conglomeritic inclusion in a coarse-grained silcrete.

The spatial distribution (Figure 38) indicated that the pole location may have intercepted the edge of an activity area, revealed by TP3. This activity area probably extended beyond the edge of the excavated 1m square, as 26 lithics occurred in quad D of TP3.

The deposit at Pole 3 was relatively deep with lithics occurring in spit 7 down to spit 15 (i.e. 35 cm to 75 cm depth). However, at this location relatively deep deposit did not indicate the presence of an old stratified site (cf. Zone 4 below, section 7.11). Most of the silcrete artefacts were of glossy heat-treated stone, and the presence of two backed artefacts (in spit 7 and spit 14) indicated that the assemblage was probably less than 6,000 years old.

Table 18 Materials and types of lithics at Zone 1 Pole 3.

| Type | Silcrete | IMST | Chert | Chalcedony | Total |
|---|---|---|---|---|---|
| Backed artefact | 1 | | 1 | | **2** |
| Retouched artefact | 1 | | | | **1** |
| Platform artefact | 14 | 1 | 1 | | **16** |
| FF/FP artefact | 18 | 1 | | | **19** |
| Heat shatter | 1 | | | | **1** |
| Broken piece | | | 1 | 1 | **2** |
| **Total** | **35** | **2** | **3** | **1** | **41** |

Plate 166 Silcrete retouched flake, ID 90 from Zone 1 Pole 3 TP3 quad D spit 10.

Scale 10 mm long in 1 mm increments.

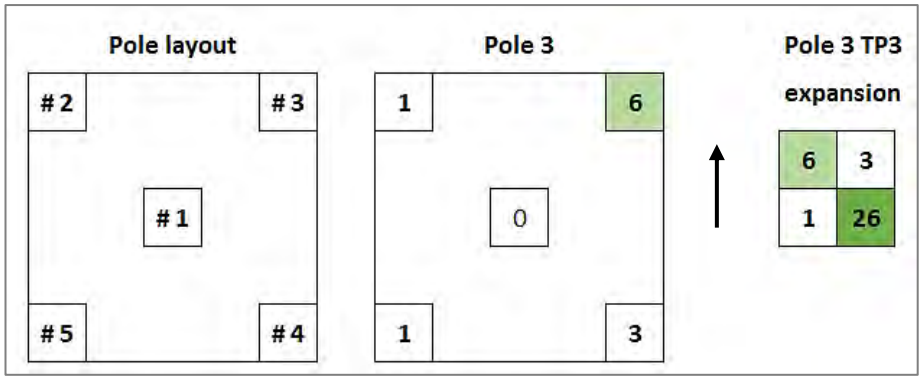


Figure 38 Pole 3 spatial distribution of lithics in test pits.

Table 19 Vertical distribution of lithics at Zone 1 Pole 3.

| Spit | TP2 | TP3 | TP4 | TP5 | Total |
|---|---|---|---|---|---|
| 7 | | 5 | | 1 | 6 |
| 8 | | 1 | | | 1 |
| 9 | | 3 | | | 3 |
| 10 | | 9 | | | 9 |
| 11 | | 9 | | | 9 |
| 12 | | 7 | | | 7 |
| 13 | | 2 | | | 2 |
| 14 | 1 | | 2 | | 3 |
| 15 | | | 1 | | 1 |
| **Total** | **1** | **36** | **3** | **1** | **41** |

### 7.4.2 LITHICS RECORDED BY PREVIOUS STUDIES NEAR POLE 3

No sites had previously been recorded at the location of Pole 3.

## 7.5 POLE 4

### 7.5.1 POLE 4 LITHICS FROM THE CURRENT EXCAVATION

Pole 4 was located on an elevated spur crest. No definitive flaked artefacts were recovered from the Pole 4 location by the current study, but as discussed above (section 7.3) a high density of chalcedony and vein quartz was present. Most of the chalcedony and vein quartz pieces occurred in TP1 and TP4, with notable counts in the other test pits (Figure 39).

The deposit was very shallow (maximum of 15 cm deep), and most of the pieces occurred in the upper 10 cm of this deposit (Table 20). If any further archaeological excavation was carried out at this location it would be reasonable to remove the deposit as a single unit, without the need for vertical control (spits).

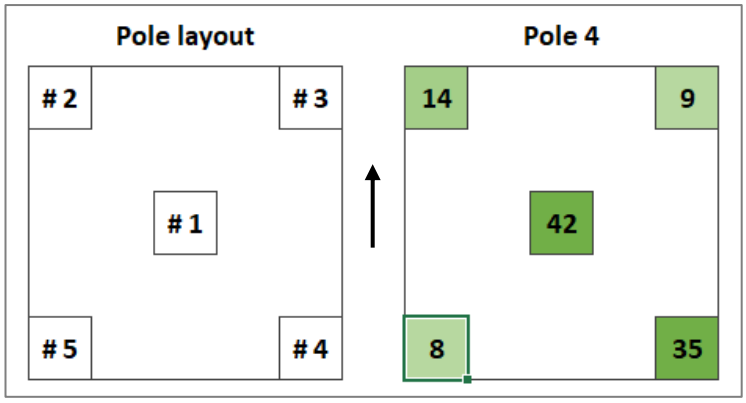


Figure 39 Pole 4 spatial distribution of chalcedony and vein quartz in test pits.

Table 20 Vertical distribution of chalcedony and vein quartz at Zone 1 Pole 4.

| Spit | TP1 | TP2 | TP3 | TP4 | TP5 | Total |
|---|---|---|---|---|---|---|
| 1 | 25 | 4 | 1 | 17 | 2 | 49 |
| 2 | 17 | 5 | 1 | 16 | 6 | 45 |
| 3 | | 5 | 7 | 2 | | 14 |
| **Total** | **42** | **14** | **9** | **35** | **8** | **108** |

### 7.5.2 LITHICS RECORDED BY PREVIOUS STUDIES NEAR POLE 4

Sites KR09 (37-6-2013) and KR10 (37-6-2014) had previously been recorded on the same spur as the Pole 4 location (AMBS 2009). Artefacts at KR09 and KR10 were of silcrete and IMST or chert (Table 21). A silcrete core fragment was found at KR09 and two cores (of silcrete and IMST) were found at KR10; the IMST core was exceptionally large (259 g) and may have been left at the site as large material supply for anticipated future use (cf. Nelson 1991; Webb 1993). Subsequent archaeological excavation by AMBS (2015) at pole GR89392 identified a notable assemblage of chalcedony and vein quartz lithics (see section 7.3).

The current test excavations at Pole 4 found chalcedony, but no definite flaked artefacts were identified. However, the presence of flaked artefacts and chalcedony with use-wear at other locations across the spur indicated that flaking and discard activities were carried out in this landscape.

Table 21 Materials at Zone 1 Pole 4 and other recorded sites.

| Site | Silcrete | IMST | Chert | Chalcedony and vein quartz | Total |
|---|---|---|---|---|---|
| Pole 4 (this study) | | | | 108 | **108** |
| KR09 | 16 | | 1 | | **17** |
| KR10 | 3 | 3 | | 1 | **7** |
| 89392 | | | | 86 | **86** |
| 89393 | | | | 20 | **20** |
| **Total** | **19** | **3** | **1** | **215** | **238** |

## 7.6 POLE 5

### 7.6.1 POLE 5 LITHICS FROM THE CURRENT EXCAVATION

Pole 5 was located on the left (north-west) side of a second order stream. Two artefacts were found by the current test excavation, being a distal piece of a relatively large flake (this piece weighed 21.5 g), and a proximal broken flake of IMST. Five pieces of chalcedony were also found, three of which had conchoidal surfaces, but could not conclusive be identified as flaked artefacts.

The FGS artefact was in TP3, and the IMST artefact was in TP5. The chalcedony occurred in TP2, TP3 and TP5, forming a low density scatter (Figure 40).

The two flaked artefacts occurred in spit 2 and the chalcedony pieces occurred in spits 1, 2 and 3, in a deposit which was a maximum of 20 cm deep.

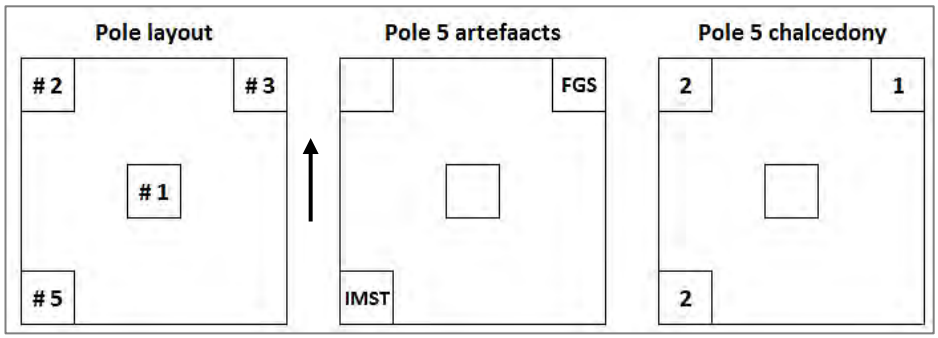


Figure 40 Pole 5 spatial distribution of artefacts and chalcedony in test pits.

### 7.6.2 LITHICS RECORDED BY PREVIOUS STUDIES NEAR POLE 5

Available records indicated that no artefacts had previously been reported near the Pole 5 location.

## 7.7 POLE 6

### 7.7.1 POLE 6 LITHICS FROM THE CURRENT EXCAVATION

Pole 6 was located on the right (east) side of a third order stream. One artefact was found by the current test excavation, being a proximal broken flake of IMST with possible use-wear (Plate 167). One piece of chalcedony and one piece of vein quartz were also found, in TP3 and TP5 respectively

The IMST artefact was in spit 7, while the other two items were in spit 4 and spit 7, of a deposit variously excavated to 35 cm and 60 cm depth (spit 7 to spit 12).

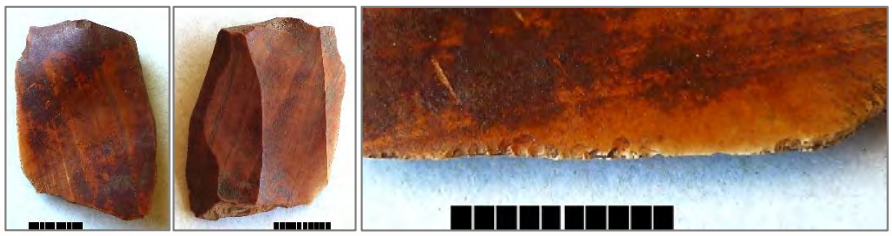

Plate 167 IMST proximal broken flake with possible use-wear, ID 178 from Zone 1 Pole 6 TP5 spit 7.

Scale 10 mm long in 1 mm increments.

### 7.7.2 LITHICS RECORDED BY PREVIOUS STUDIES NEAR POLE 6

No artefacts had previously been reported at the Pole 5 location.

Site KR12 (37-6-2016) was recorded by AMBS (2009) on the west (opposite) side of the same creek. Five artefacts consisted variously of silcrete, chert and quartz.

Together the results of the current testing at Pole 6, and the surface recordings at site KR12, indicate that Indigenous people had visited this creek landscape.

## 7.8 POLES 7 TO 9

### 7.8.1 POLES 7, 8 AND 9 LITHICS FROM THE CURRENT EXCAVATION

Poles 7, 8, and 9 were located along, and on the edge of, an elevated spur/ridge landform in hilly terrain. No definite flaked artefacts were found, but four pieces of chalcedony were found at Pole 7 (three in TP4) and one each was found at Pole 8 and Pole 9 (Figure 41). The chalcedony pieces at Poles 7 and 9 had surfaces suggestive of flaking but they could not be conclusively identified as flaked artefacts (e.g. Plate 163, Plate 164).

At Poles 7 and 8 the chalcedony occurred in spit 1 and spit 2, in deposits excavated to spit 4 or spit 5 (i.e. 20 cm to 25 cm depth). At Pole 9 a single piece of chalcedony occurred in spit 7 of a deposit excavated to spit 9 (i.e. 45 cm depth).

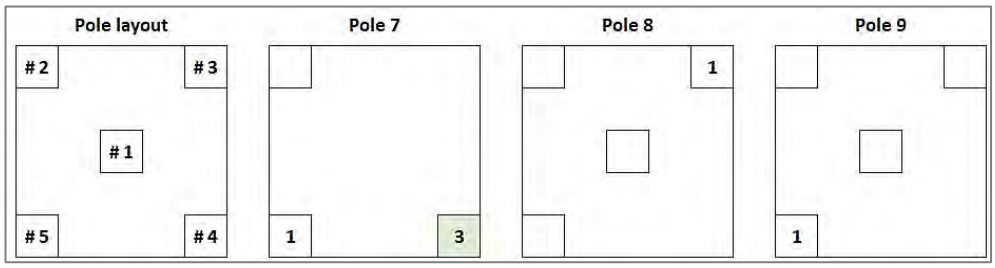


Figure 41 Poles 7 to 9 spatial distribution of chalcedony in test pits.

### 7.8.2 LITHICS RECORDED BY PREVIOUS STUDIES NEAR POLES 7, 8 AND 9

Site KR13 (site 37-6-2017) was recorded by AMBS (2009) east of the Pole 7 location. Two flakes were found, one of chert and one of silcrete. Excavations were subsequently conducted by AMBS at their poles GR79396 and GR79397 (total excavation of 4.5 $m^2$). Twelve pieces of chalcedony were found at GR79396 and 32 pieces were found at GR79397. Microscopic use-wear/residue analysis identified two pieces of chalcedony with use-wear (AMBS 2015).

AMBS (2015) also excavated at GR79399, located approximately midway between Pole 7 and Pole 8 of the current study. An artefact of IMST, a piece of chalcedony with use-wear, and a proximal broken flake of chalcedony were found.

This context, together with conchoidal surfaces on six of the seven chalcedony pieces at Pole 7 and Pole 9 of the current study, suggested that some (or all) of the chalcedony at Poles 7, 8 and 9 may be artefacts.

The combined evidence from survey and excavations indicated that people had occasionally visited, or travelled along, this spur/ridge landscape. Lithic materials other than chalcedony were occasionally discarded.

## 7.9 Zone 2 Pole 10 (Black Creek)

### 7.9.1 Pole 10 lithics from the current excavation

Seventeen (17) artefacts were excavated at Pole 10, all from TP3 (Figure 42, Table 22). The artefacts were of silcrete and IMST, indicating that multiple overlapping activities were carried out at this location. The assemblage included a silcrete retouched fragment (Plate 168). The other artefacts were unretouched platform and FF/FP artefacts. One heat shatter of IMST was also present, indicating (limited?) post-discard breakage.

Half the dorsal surface of IMST flake ID 191 was rounded/worn but other margins and surfaces were less weathered, indicating that this flake was struck from an older, recycled core. One other IMST artefact (ID 188) also had rounded/worn margins and surfaces suggesting that it had been moved by natural processes after discard on the site or perhaps carried from elsewhere as a manuport. Some of the silcrete artefacts had fairly dull surfaces, indicating that the stone had not been heat treated prior to flaking.

Vertically, the artefacts occurred through 15 cm of deposit between 20 cm and 35 cm depth; i.e. spits 5 to 7 (Table 23) in a deposit excavated variously to spit 7 and spit 9.

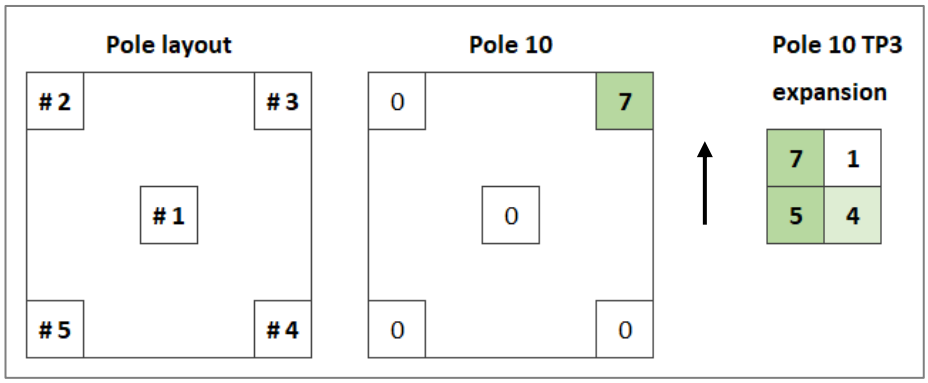


Figure 42 Pole 10 spatial distribution of artefacts in initial test pits and in expanded test pit #3.

Table 22 Materials and artefact types at Zone 2 Pole 10.

| Type | Silcrete | IMST | Total |
|---|---|---|---|
| Retouched artefact | 1 | | **1** |
| Platform artefact | 3 | 8 | **11** |
| FF/FP artefact | 2 | 2 | **4** |
| Heat shatter | | 1 | **1** |
| **Total** | **6** | **11** | **17** |

Plate 168 Silcrete broken retouched medial fragment, ID187 from Zone 2 Pole 10 TP3 quad A spit 6.

Scale 10 mm long in 1 mm increments.

Table 23 Vertical distribution of artefacts at Zone 2 Pole 10.

| Spit | Silcrete | IMST | Total |
|---|---|---|---|
| 5 | 1 | | 1 |
| 6 | 5 | 6 | 11 |
| 7 | | 3 | 3 |
| clean-up | | 2 | 2 |
| **Total** | **6** | **11** | **17** |

### 7.9.2 LITHICS RECORDED BY PREVIOUS STUDIES NEAR POLE 10

Site 37-6-2156 was recorded, south of the Pole 10 location. North of the railway line (i.e. north of the Pole 10 location) the F3 to Branxton Link study reported Black Creek RTA2, PAD20, and Black Creek RTA3 west of Black Creek (Umwelt 2005). Black Creek RTA2 (site 37-6-1339) was assessed as being of high significance (Umwelt 2010).

On the east side of Black Creek an exposure with 11 artefacts were found c.100 m east of the creek and recorded as Black Creek RTA1 (site 37-6-685) (Brayshaw 1994; Umwelt 2005). Black Creek RTA1 included three cores and other artefacts of the same material suggesting that knapping events had been carried out (Brayshaw 1994), as well as activities involving diverse materials (Table 24).

The results of archaeological excavations (if any) at these sites could not be located in the AHIMS report catalogue.

The combined evidence from surface survey and the current test excavation indicated that people carried out lithic activities on either side of Black Creek using different material types. In some locations those activities may have been spatially discrete.

Table 24 Materials at Zone 1 Pole 10 and Black Creek RTA1.

| Site | Silcrete | IMST | Chert | Quartz | Chalcedony | Total |
|---|---|---|---|---|---|---|
| Pole 10 (this study) | 6 | 11 | | | | 17 |
| Black Ck RTA1 | 7 | 1 | 2 | 1 | | 11 |
| **Total** | **13** | **12** | **2** | **1** | **0** | **28** |

## 7.10 Zone 3 (Warkworth) Poles 13, 14 and 15, and proposed access track

### 7.10.1 Zone 3 lithics from the current excavation

Zone 3 was located on slightly elevated ground on the Hunter River floodplain, at c.50 m above height datum (AHD). Three pole locations were tested in zone 3, and 26 test pits were excavated along the centre line of a proposed access track, for a total of 40 test pits. Eleven artefacts included a silcrete core weighing 63 g which showed unifacial and bifacial flaking (Plate 169). Other flaked artefacts were of IMST, quartz and chert (Table 25).

The spatial distribution of artefacts indicated the presence of a low density discontinuous scatter (Table 26). The highest artefact count in a single test pit was three artefacts in TP15. These were of silcrete and IMST indicating that at least two lithic activities were carried out at this location. But otherwise, the spatial distribution indicated that lithic activities were spatially discrete and most may have involved discard of few artefacts.

The deposit was relatively shallow, between 10 cm and 30 cm thick, with one test pit excavated to 45 cm depth. However, the average depth was only 20 cm. Most artefacts occurred in spits 1 to 3; i.e. the upper 15 cm of deposit (Table 27).

Plate 169 Silcrete core, ID 242, from Zone 3 proposed access track TP2 spit 1.

Scale 10 mm long in 1 mm increments.

Table 25 Materials and artefact types at Zone 3.

| Type | Silcrete | IMST | Quartz | Chert | Total |
|---|---|---|---|---|---|
| Core | 1 | | | | **1** |
| Platform artefact | 1 | 3 | | 1 | **5** |
| FF/FP artefact | 2 | 1 | 1 | | **4** |
| Heat shatter | | 1 | | | **1** |
| **Total** | **4** | **5** | **1** | **1** | **11** |

Table 26 Summary spatial distribution of artefacts in zone 3 test pits and pole locations.

| TP no. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TP counts | 1 | 2 | | | | 1 | | 1 | | | | | | | 3 | | | 1 | | | | | | | | |
| Pole counts | | | 0 | | | | | | | | | | | | 1 | | | | | | | | | | | 1 |
| Pole no. | | | 13 | | | | | | | | | | | | 14 | | | | | | | | | | | 15 |

Table 27 Vertical distribution of artefacts in Zone 3.

| Spit | Silcrete | IMST | Quartz | Chert | Total |
|---|---|---|---|---|---|
| 1 | 2 | 1 | | | 3 |
| 2 | 2 | 1 | | | 3 |
| 3 | | 2 | 1 | 1 | 4 |
| 5 | | 1 | | | 1 |
| **Total** | **4** | **5** | **1** | **1** | **11** |

### 7.10.2 Other sites recorded in or near Zone 3

AMBS (2009) recorded site KR58 (site 37-6-2063) with two artefacts, then subsequently 28 additional artefacts were found (AMBS 2015). These were of IMST, silcrete and quartzite, and half were more than 50 mm in size (i.e. relatively large).

Scarp Archaeology (2011) reported three sites in Zone 3, two being single finds and one having two artefacts. These were a silcrete multiplatform core (site 37-6-3100, MTW-470), a chert flake (site 37-6-3101, MTW-469) and a flake each of IMST and silcrete (site 37-6-3103, MTW-467). At the time of writing, the report by Scarp Archaeology (2011) was not available in the AHIMS report catalogue.

Together, the information from the current testing and available records for other sites KR58, 37-6-3100, 37-6-3101 and 37-6-3103 indicated the presence of an extensive scatter of artefacts across a slightly elevated landform on the Hunter River flat. Artefacts were predominantly of IMST with silcrete and occasional objects of other material types (Table 28). Most of the artefacts excavated by the current testing were less than 30 mm in size, but surface artefacts were often larger, and some reported by AMBS (2015) weighed more than 200 g each (Table 29).

West of Zone 3 (west of Jerrys Plains Road) site 37-6-1437 (JP16) occurred on the edge of a terrace overlooking the Hunter River floodplain. It was an extensive sparse scatter of artefacts covering c.800 m x 170 m in a ploughed paddock (note with AHIMS form for site 37-6-1439). Artefact data was not reported. The distribution of artefacts at site 37-6-1439 may have been similar to that in Zone 3 of the current study.

Several sites had been reported on the floodplain/terrace south of Zone 3. These were two IMST flakes (sites 37-6-3078 and 37-6-3081) and two silcrete retouched flakes (37-6-0682 and 37-6-3077). Artefact data was not reported for sites 37-6-0020 and 37-6-0677.

The low density discontinuous scatter of artefacts in Zone 3 may have been typical of the floodplain between Jerrys Plains Road and the Hunter River at Warkworth. Larger artefacts included cores and retouched flakes.

Table 28 Materials in Zone 3 and Sullivans Creek.

| Site | Silcrete | IMST + chert | Quartz | Others | Total |
|---|---|---|---|---|---|
| Zone 3 (this study) | 4 | 6 | 1 | | **11** |
| Site KR58 (37-6-2063) | 10 | 19 | | 1 | **30** |
| Sites 37-6-3100, -3101, -3103 | 2 | 2 | | | **4** |
| Sullivans Creek site W4 | *21.1* | *68.0* | *3.7* | *7.1* | **403** |
| Sullivans Creek site W3 | *23.3* | *72.5* | *2.1* | *2.2* | **189** |
| Sullivans Creek site W2 north | *23.9* | *70.6* | *2.5* | *3.1* | **360** |
| Sullivans Creek site W2 | *35.6* | *54.7* | *3.2* | *6.4* | **744** |

Table 29 Artefact size in Zone 3 and Sullivans Creek, surface artefacts by % frequency.

| Site | <30 mm | 30-50 mm | > 50 mm | Total |
|---|---|---|---|---|
| Zone 3 this study - excavated | 9 | 1 | 1 | **11** |
| Site KR58 - surface | 7 | 8 | 15 | **30** |
| Sites 37-6-3100, -3101, -3103 | n/a | n/a | n/a | **4** |
| Sullivans Creek site W4 - surface | *54.8* | *28.8* | *16.3* | **403** |
| Sullivans Creek site W3 - surface | *51.8* | *39.1* | *8.9* | **189** |
| Sullivans Creek site W2 north - surface | *63.4* | *29.8* | *7.0* | **360** |
| Sullivans Creek site W2 - surface | *80.5* | *15.7* | *3.9* | **744** |

A large number of archaeological studies had been carried out in the undulating landscape of the adjacent Warkworth mine lease. In those landscapes, highest artefact densities tended to occur in proximity to streams, but artefacts were occasionally reported in other parts of the landscape (e.g. Dyall 1979; Haglund 1991, 1992, 1994; Rich 1991). Assemblages at Warkworth tended to be dominated by IMST, with half or fewer artefacts of silcrete, and with occasional artefacts of quartz, petrified wood, quartzite, igneous, metamorphic and other materials (White 1999). Extensive erosion exposures (covering hundreds of square metres) along Doctors Creek revealed numerous stone artefacts from individual knapping activities that had been carried out in different locations across the valley floor (e.g. Rich 1992). This kind of semi-continuous distribution with some overlapping activities suggested

that the valley floor had been occupied repeatedly, with people carrying out diverse activities. The spatial distribution of artefacts in Zone 3 of the current study seemed to differ, consisting of a sparse discontinuous scatter of only occasional finds.

A comparative analysis of artefacts along Sullivans Creek (White 1999) located c.3-4 km south of Zone 3, found that nearly half the artefacts at sites closer to the Hunter River were more than 30 mm in size, but at the most distant site only 20% of artefacts were more than 30 mm in size. This trend was consistent with a simple distance-decay model – that people tended to discard larger cores and tools closer to stone sources which may have occurred along the Hutner River. However, artefact type data did not support such a simple idea. Rather, the sites could also have been occupied in different ways. Sites closer to the Hunter River in lower terrain may have been occupied in an ephemeral manner, where daytime activities were carried out, such as resource procurement or processing, or short-term dinner-time camps were visited (cf. Meehan 1988). More focussed activities including intensive core flaking, may have been carried out in the undulating landscape away from the Hunter River flats (White 1999). The available information for Zone 3 was consistent with this model.

## 7.11 Zone 4 Poles 16 and 17 (Knodlers Lane)

### 7.11.1 Zone 4 lithics from the current excavation

Zone 4 was located on a terrace landform east of the Hunter River, at c.70 m AHD (i.e. at a higher elevation than Zone 3). The deposit was mapped as Cza on the Singleton 1:25,000 scale geological map sheet (i.e. relict terrace, possibly Tertiary in age rather than Quaternary alluvium), and the nature of the deposit and artefacts therein suggested a complex geomorphic history.

During the current test excavation, a total of 33 objects were recovered from Zone 4 – seven at Pole 16, 20 from initial testing at Pole 17 and six from expansion of Pole 17 TP5 (Figure 43, Table 30). Most of the objects were of IMST, with four at Pole 17 of silcrete; the latter had dull to slight lustre and may have been struck from stone which had not been heat treated or perhaps partially heated.

A broken retouched artefact occurred at Pole 16 (Plate 170) suggesting a possible tool-use activity. Platform artefacts (flakes, proximal and cone-split broken flakes) outnumbered flake fragments and flaked pieces (Table 30), suggesting a low rate of artefact breakage. Twenty artefacts retained classifiable platforms, and 16 of these were plain or cortical, indicating predominant use of unifacial flaking (Plate 171 to Plate 174). One IMST flake had a scarred platform and probably derived from bifacial flaking. A core at Pole 17 (Plate 175) also showed bifacial flaking.

The deposit was relatively deep, with most test pits excavated to 60 cm depth (spit 16); at Pole 17 TP1 and TP3 were excavated to 100 cm depth (spit 20). Artefacts were spread vertically through the deposit, from spit 5 to spit 17, with the highest counts in spits 13 and 15 (Table 31).

The depth of the assemblage, predominance of unifacial flaking and absence of heat treated silcrete suggested that the site may have included artefacts older than c.6,000 years (cf. White 2017). However, these aspects of the artefacts could also have related to early-stage flaking of cobbles procured from gravels along the Hunter River or in alluvial terraces.

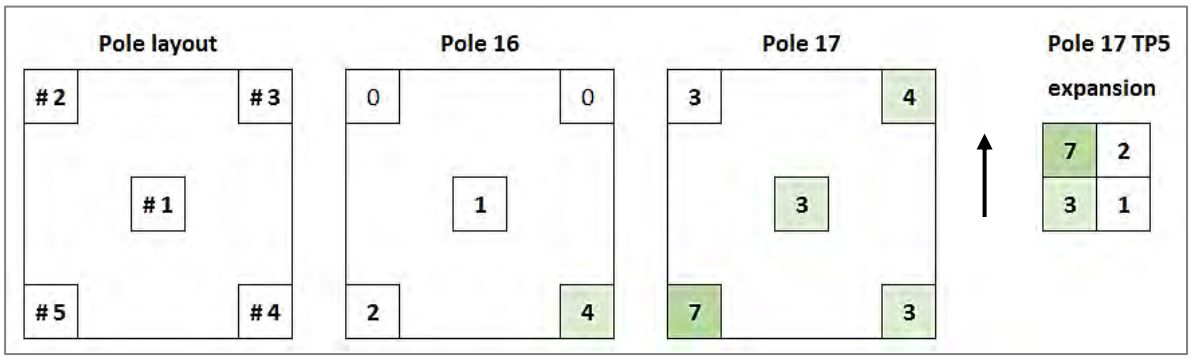


Figure 43 Poles 16 and 17 spatial distribution of artefacts in initial test pits and in expanded test pit #5.

Table 30 Materials and artefact types at Zone 4 Poles 16 and 17.

| Type | Silcrete | IMST | Total |
|---|---|---|---|
| Retouched artefact | | 1 | 1 |
| Core | | 1 | 1 |
| Platform artefact | 4 | 20 | 24 |
| FF/FP artefact | 1 | 4 | 5 |
| Heat shatter | | 1 | 1 |
| Broken piece | | 1 | 1 |
| **Total** | **5** | **28** | **33** |

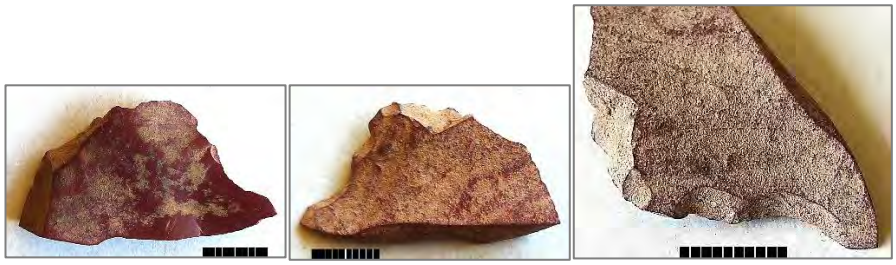

Plate 170 IMST broken retouched medial fragment, ID207 from Zone 4 Pole 16 TP4 spit 13.

Scale 10 mm long in 1 mm increments.

Plate 171 IMST proximal broken flake, ID213 from Zone 4 Pole 17 TP1 spit 13.

Scale 10 mm long in 1 mm increments.

Plate 172 IMST proximal broken flake, ID222 from Zone 4 Pole 17 TP4 spit 5.

Scale 10 mm long in 1 mm increments.

Plate 173 IMST flake, ID21 4from Zone 4 Pole 17 TP5 quad C spit 8.

Scale 10 mm long in 1 mm increments.

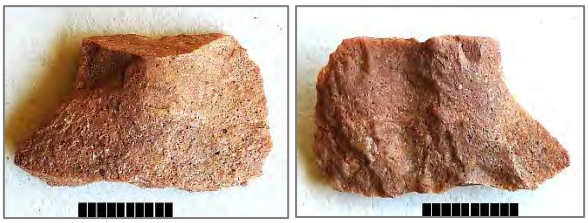

Plate 174 Silcrete proximal broken flake, ID216 from Zone 4 Pole 17 TP2 spit 13.

Slightly lustrous. Scale 10 mm long in 1 mm increments.

Plate 175 IMST core with flake body, ID 224, from Zone 4 Pole 17 TP4 spit 16.

Scale 10 mm long in 1 mm increments.

Table 31 Vertical distribution of artefacts at Zone 4 Poles 16 and 17.

| Spit | Silcrete | IMST | Total |
|---|---|---|---|
| 5 | 1 | 1 | 2 |
| 6 | 1 | 1 | 2 |
| 7 | | 2 | 2 |
| 8 | | 1 | 1 |
| 9 | | | - |
| 10 | | | - |
| 11 | | 1 | 1 |
| 12 | | 1 | 1 |
| 13 | 3 | 6 | 9 |
| 14 | | 3 | 3 |

| | | | |
|---|---|---|---|
| 15 | | 6 | 6 |
| 16 | | 4 | 4 |
| 17 | | 1 | 1 |
| clean-up | | 1 | 1 |
| **Total** | **5** | **28** | **33** |

### 7.11.2 OTHER SITES RECORDED IN OR NEAR ZONE 4

The field survey for the current study recorded KL-AS-2, KL-IF-1 and KL-IF-2. Site KL-AS-2 included silcrete flakes and an IMST cobble core, KL-IF-1 was a silcrete flake, and KL-IF-2 was an IMST cobble core. These artefacts were generally similar to those from the test excavation at the Pole 17 location.

Potentially relevant to an assessment of Zone 4 were reports by McCarthy and Davidson (1943) and Moore (1970) regarding the presence of artefacts in the upper deposits of a '200 foot terrace' associated with the Hunter River at Gowrie near Singleton. McCarthy and Davidson (1943) reported collections of 2,451 artefacts from the terrace, and noted that artefacts were found over a distance of c.16 km and were thought to be more extensive. The artefacts occurred in the upper 30 cm of the deposit, which overlay clay. "Chert" (probably IMST) was the predominant material, but other material types included jasper, quartzite, porphyry and 'conglomerate' (possibly silcrete). The assemblage included flaked pebbles, cores showing various flaking patterns, other retouched artefacts, and an edge-ground implement. Backed artefacts were present, variously asymmetric Bondi points and more geometric triangular and trapeze shapes. Bipolar artefacts were relatively rare (McCarthy and Davidson 1943). The presence of backed artefacts and an edge-ground implement indicated that artefacts were probably only a few thousand years old; although older artefacts could potentially have been present amongst the collected objects.

Subsequently, Moore (1970) reported "... during June 1966 several series of test trenches were dug into the shallow topsoil at a number of points on the 200-foot terrace and produced small quantities of material similar to that surface-collected by McCarthy and Davidson." He also found that artefacts were confined to the upper 15-30 cm of topsoil.

The current test excavations in Zone 4 found a relatively deep sandy deposit between 75 cm and 100 cm deep, with artefacts down to 85 cm at Pole 17 TP3. This deposit was much deeper than the deposits reported by McCarthy and Davidson (1943) and Moore (1970), and suggested that different geomorphological processes had led to the creation of the deposit in Zone 4. The increased depth of the deposit, and presence of artefacts demonstrating predominant use of unifacial flaking, raised the possibility that some older artefacts (predating c.6,000 BP) could be present. So far relatively few sites predating the mid-late Holocene are known for the Hunter lowlands (AMBS 2002; Hughes et al. 2014; Koettig 1987; Kuskie 1999;

Scarp Archaeology 2009, 2013), so the possible presence of an old assemblage was notable.

However, a larger sample of artefacts for technological analysis, geomorphological advice and OSL (optically simulated luminescence) or other dating of the deposit, would be necessary to establish a likely chronology for the site (cf. the Hunter Valley Sand Bodies Research Study, Yancoal 2022).

## 7.12 Zone 6 Pole 19

### 7.12.1 Pole 19 lithics from the current excavation

Three artefacts were recovered – two IMST artefacts from TP1 and 1 silcrete artefact from TP4. These occurred in spit 3 and spit 4 (10 cm to 20 cm depth), in a deposit which was generally 25 cm to 30 cm deep. No artefacts were found in three of the five excavated test pits, indicating that artefacts were discontinuous at the location of Pole 19. The three artefacts were fairly small, all less than 20 mm in size.

### 7.12.2 Other sites recorded in or near Pole 19

Site MD-AS-3 was identified by the current survey in the vicinity of the Pole 19 location. It was found on both sides of the lower reaches of a second order stream. More than 100 artefacts were observed, including IMST and silcrete.

No surface artefacts were observed around the location of Pole 19, with the surface artefacts observed in generally close proximity to the creek bank within erosional scours.

## 7.13 Summary of Test Excavation

Artefacts identified during the test excavation program were formed from a range of raw materials, including silcrete, IMST, quartz and FGS. Silcrete was the predominant material with 109 (44%) of the 249 items recovered being silcrete.

IMST was the next common material type with 59 items (24%) followed by chalcedony with 48 items (19%). 23 items of vein quartz were identified and smaller quantities of chert, fine silicious (FS), quartz, and quartzite formed the remainder of the assemblage.

Five complete backed or retouched items were identified within the assemblage with a further four broken backed or retouched items recorded. Three of the backed artefacts were recovered from a single test pit at Pole 1, which was considered to demonstrate multiple lithic activities were carried out at this location. Most items were noted to be flakes, broken flakes or flaked pieces.

Some stratification of the assemblage was evident, with higher counts noted within spit 3 (10-15cm depth)

Within Zone 1, chalcedony and associated crystalline vein quartz was noted to be present, but many of the items identified did not demonstrate evidence of cultural

modification. However, some of these items were identified during previous assessments (AMBS 2015) as having use-wear or residue consistent with use in functional tasks, despite their lack of clear diagnostic features. The current study identified 122 pieced of chalcedony and vein quartz from test pits Zone 1; none of which had clear or definitive diagnostic features consistent with cultural modification. However, given previous analyses and results, these have the potential for at least some of them to have been utilised in some form, and thus were considered as part of the assemblage.

Overall, the test excavation is considered to provide evidence of discontinuous use of the landscape by Aboriginal people, with some areas used to a greater degree than others.

## 7.14 New Sites

As a result of the test excavations, a total of 17 new sites were identified. These are the locations of the test pits bearing artefacts at Zones 1, 2, 3, 4 and 6. These sites have been registered with AHIMS and are currently awaiting allocation of AHIMS numbers. This will be updated when the results are available.

The new sites comprise the individual pole/construction pad locations that were found to have artefacts in one or more test pits, while within Zone 3 a total of five artefact concentrations were identified within one or more test pits which included the adjacent testing locations with positive artefact results for the proposed access track in this location. The new sites listed below are shown on Figure 44 to 48.

The sites have been named as follows:

- HREZ-P1-AD
- HREZ-P3-AD
- HREZ-P4-AD
- HREZ-P5-AD
- HREZ-P6-AD
- HREZ-P7-AD
- HREZ-P8-AD
- HREZ-P9-AD
- HREZ-P10-AD
- HREZ-P16-AD
- HREZ-P17-AD
- HREZ-P19-AD
- HREZ-Z3AD-01
- HREZ-Z3AD-02
- HREZ-Z3AD-03
- HREZ-Z3AD-04
- HREZ-Z3AD-05

PO Box 236
NOWRA
NEW SOUTH WALES 2541

0 0.55 1.1

kilometres

Projection:
MGA Zone 56 (GDA 94)
Base Map:
Bing Maps 2025
Final - Version 1

Figure 44: Sites identified from test pits within Zone 1 Pole 1 to 9.

PO Box 236
NOWRA
NEW SOUTH WALES 2541

0 135 270

metres

Projection:
MGA Zone 56 (GDA 94)
Base Map:
Bing Maps 2025
Final - Version 1

Figure 45: Sites identified from test pits within Zone 2 Pole 10

PO Box 236
NOWRA
NEW SOUTH WALES 2541

0 165 330
metres

Projection:
MGA Zone 55 (GDA 94)
Base Map:
Nearmaps 2024
Image Date: 07/01/2024
Final - Version 1

Figure 46: Sites identified from test pits within Zone 3

N
W E
S

PO Box 236
NOWRA
NEW SOUTH WALES 2541

0 420 840

metres

Projection:
MGA Zone 56 (GDA 94)
Base Map:
Bing Maps 2025
Final - Version 1

Figure 47: Sites identified from test pits within Zone 4

PO Box 236
NOWRA
NEW SOUTH WALES 2541

0 420 840

metres

Projection:
MGA Zone 56 (GDA 94)
Base Map:
Bing Maps 2025
Final - Version 1

Figure 48: Sites identified from test pits within Zone 6

# 8.0 Scientific Values and Significance Assessment

## 8.1 Introduction

The *Aboriginal cultural heritage consultation requirements for proponents 2010* acknowledge that:

- Aboriginal people have the right to maintain their culture, language, knowledge and identity
- Aboriginal people have the right to directly participate in matters that may affect their heritage
- Aboriginal people are the primary determinants of the cultural significance of their heritage

Undertaking consultation with Aboriginal people ensures that potential harm to Aboriginal objects and places from proposed developments is identified and mitigation measures developed early in the planning process.

## 8.2 Criteria

The Burra Charter is considered an appropriate framework for the assessment of cultural heritage, which can be made based on the following assessment criteria:

- **Social value:** Also referred to as cultural value, this criterion considers the spiritual, traditional, historical or contemporary associations an area or place has for Aboriginal people
- **Historic value:** the relationship between a place and people, events, phases or activities of importance to the Aboriginal community; specifically considering the "associations of a place with a historically important person, event, phase or activity in an Aboriginal community" (DECCW 2010)
- **Scientific value:** assessment under this criterion considered the ability of a landscape, place, area or object to inform scientific research and/or analysis and to assist in answering research questions
- **Aesthetic value:** the ability of a place, area, landscape or object to demonstrate aesthetic characteristics, or possess creative or technical values

Additionally, archaeological significance is assessed based on the archaeological or scientific values of an area. These values can be defined as the importance of the area relating to several criteria. Criteria used for determining the archaeological significance of an area are as follows:

- **Research or educational potential:** Can the site contribute to an understanding of the area/region and/or the state's natural and cultural history? Is the site able to provide information that no other site or resource is able to do?

- **Representativeness:** is the site representative of this type of site? Is there variability both inside and outside the study area? Are similar site types conserved?
- **Rarity:** is the subject area a rare site type? Does it contain rare archaeological material or demonstrate cultural activities that no other site can demonstrate? Is this type of site in danger of being lost?
- **Integrity/Intactness:** Has the site been subject to significant disturbance? Is the site likely to contain deposits which may possess intact stratigraphy?

Further, an assessment of the grade of significance is made, based on how well the item fulfils the assessment criteria. The Heritage Branch of the Department of Planning (now the Heritage Division of the Department of Planning, Industry and Environment) 2009 guideline *Assessing Significance for Historical Archaeological Sites and 'Relics'* defines the grading of significance as follows:

Table 32: Grading of significance, from Heritage Branch 2009

| Grading | Justification |
|---|---|
| Exceptional (E) | Rare or outstanding item of local or State significance. High degree of intactness. Item can be interpreted relatively easily. |
| High (H) | High degree of original fabric. Demonstrates a key element of the item's significance. Alterations do not detract from significance. |
| Moderate (M) | Altered or modified elements. Elements with little heritage value but which contribute to the overall significance of the item. |
| Little (L) | Alterations detract from significance. Difficult to interpret. |
| Intrusive (I) | Damaging to the item's heritage significance. |

Whilst this was developed for the assessment of significance of historical items, the criteria are applicable to Aboriginal significance assessments as well. It is important to note that the below assessment is specific to Aboriginal cultural heritage and does not consider the non-Aboriginal significance of the site.

## 8.3 Significance Assessment

The significance of each site within the study area has been assessed and is presented in Table 33.

It is noted that all evidence of Aboriginal cultural heritage is of high social significance to the Aboriginal community and so all sites have been assessed as of high significance. This will be revised if comments are received from the Aboriginal community regarding the social significance of the sites.

It is further noted that all sites have been assessed as being of low historical significance. This is due to no known associations of the study area with historically important people or persons, events, phases or activities in the Aboriginal community. This will also be revised if comments are received from the Aboriginal community regarding the historical significance of the sites.

Table 33: Summary of significance assessment for all valid sites within study area

| Site ID | Social | Historic | Scientific | Aesthetic | Research | Representativeness | Rarity | Integrity | Overall |
|---|---|---|---|---|---|---|---|---|---|
| 37-3-0192 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-3-0193/ 37-3-0462 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-3-0537 | High | Low | Moderate | Low | Moderate | Low | Low | Low | Low |
| 37-3-0539 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-3-0711 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-5-0179 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-0020 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-0677 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-1439 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-1442 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-1644 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-1645 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-3-0006 | High | Low | Moderate | Moderate | Moderate | Moderate | High | Moderate | Moderate |
| 37-3-0500 | High | Low | Moderate | Moderate | Moderate | Moderate | High | Moderate | Moderate |
| 37-3-0767 | High | Low | Low | Low | Low | Low | Low | Moderate | Low |
| 37-3-0772 | High | Low | High | High | High | High | High | Moderate | High |
| 37-3-0809 | High | Low | Moderate | Moderate | Moderate | Moderate | Moderate | Moderate | Moderate |
| 37-3-0810 | High | Low | Moderate | Moderate | Moderate | Moderate | Moderate | Moderate | Moderate |
| 37-3-1198 | High | Low | Moderate | Moderate | Moderate | Moderate | Moderate | Moderate | Moderate |
| 37-3-1502 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-3-1518 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-3-1529 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-3-1555 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-2007 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-2009 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-2010 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-2011 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-2012 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-2013 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-2014 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-2015 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-2016 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-2017 | High | Low | Low | Low | Low | Low | Low | Low | Low |

| Site ID | Social | Historic | Scientific | Aesthetic | Research | Representativeness | Rarity | Integrity | Overall |
|---|---|---|---|---|---|---|---|---|---|
| 37-6-2064 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-2066 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-2067 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-2151 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-2-0543 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-2-2213 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-2-2214 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-2-2215 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-2-2216 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-2-2217 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-2-2218 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-2-0098 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-2-1455 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-2-1845 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-2-1841 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-2269 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-2935 | High | Low | Moderate | Moderate | Moderate | Moderate | Low | Moderate | Moderate |
| 37-6-3077 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-3078 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-3081 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-3100 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-3101 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-3103 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-3156 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-3157 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-3158 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-3159 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-3436 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-3437 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-3438 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-3439 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-3440 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-3441 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-3443 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-3453 | High | Low | Low | Low | Low | Low | Low | Low | Low |

| Site ID | Social | Historic | Scientific | Aesthetic | Research | Representativeness | Rarity | Integrity | Overall |
|---|---|---|---|---|---|---|---|---|---|
| 37-6-3492 | High | Low | Moderate | Low | Moderate | Moderate | High | Low | Moderate |
| 37-6-3835 | High | Low | Moderate | Moderate | Moderate | Moderate | High | Moderate | Moderate |
| 37-6-3875 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-3914 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-3966 | High | Low | Moderate | Low | Moderate | Moderate | Low | Moderate | Moderate |
| 37-6-4020 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-4022 | High | Low | Moderate | Low | Moderate | Low | Moderate | Low | Moderate |
| 37-6-4045 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-4071 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-4073 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-4249 | High | Low | Low | Low | Moderate | Moderate | Low | Moderate | Moderate |
| 37-6-4305 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-4458 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-4453 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-4454 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-4455 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-1308 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-4456 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-4457 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-4459 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 67-6-4460 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-4461 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-4462 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-4464 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-4465 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-4466 | High | Low | Low | Loe | Low | Low | Low | Low | Low |
| 37-6-4467 | High | Low | Moderate | Low | Moderate | Moderate | High | Low | Moderate |
| 37-6-4471 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-4473 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-6-4474 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-3-1665 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| 37-3-1666 | High | Low | Moderate | Low | Moderate | Moderate | Moderate | Moderate | Moderate |
| 37-2-6645 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| HREZ-P1-AD | High | Low | Moderate | Low | Moderate | Moderate | Moderate | Low | Moderate |
| HREZ-P3-AD | High | Low | Moderate | Low | Moderate | Moderate | Moderate | Low | Moderate |

| Site ID | Social | Historic | Scientific | Aesthetic | Research | Representativeness | Rarity | Integrity | Overall |
|---|---|---|---|---|---|---|---|---|---|
| HREZ-P4-AD | High | Low | Moderate | Low | Moderate | Moderate | Moderate | Low | Moderate |
| HREZ-P5-AD | High | Low | Low | Low | Low | Low | Low | Low | Low |
| HREZ-P6-AD | High | Low | Low | Low | Low | Low | Low | Low | Low |
| HREZ-P7-AD | High | Low | Low | Low | Low | Low | Low | Low | Low |
| HREZ-P8-AD | High | Low | Low | Low | Low | Low | Low | Low | Low |
| HREZ-P9-AD | High | Low | Low | Low | Low | Low | Low | Low | Low |
| HREZ-P10-AD | High | Low | Moderate | Low | Moderate | Moderate | Moderate | Low | Moderate |
| HREZ-P16-AD | High | Low | Low | Low | Low | Low | Low | Low | Low |
| HREZ-P17-AD | High | Low | Low | Low | Low | Low | Low | Low | Low |
| HREZ-P19-AD | High | Low | Low | Low | Low | Low | Low | Low | Low |
| HREZ-Z3AD-01 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| HREZ-Z3AD-02 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| HREZ-Z3AD-03 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| HREZ-Z3AD-04 | High | Low | Low | Low | Low | Low | Low | Low | Low |
| HREZ-Z3AD-05 | High | Low | Low | Low | Low | Low | Low | Low | Low |

### Moderate zone of potential (AMBS 2009) – Zone 1

Based on both previous test excavations within this zone, as well as the current test excavations, this zone is considered to have moderate archaeological significance based on the assemblage diversity and range of items, as well as the potential for further investigation of the potential use of non-culturally modified chalcedony and crystalline quartz. The highest densities of artefacts recovered during the current test excavation program were recovered from this zone. As such, this zone is assessed as being of moderate archaeological significance.

### Black Creek – Zone 2

Zone 2 contained a previously destroyed site and a total of 17 artefacts were recovered from one test pit at TP3. The assemblage was considered to represent evidence of multiple overlapping activities at this location. There was some evidence of stratification of the artefacts recovered. As such, this zone is assessed as being of moderate archaeological significance.

### Jerrys Plains Zone of Subsurface archaeological potential – Zone 3

Individual sites within this zone have previously been assessed as having overall low archaeological sensitivity, the wider zone was initially considered to have moderate research, representativeness, rarity and integrity and overall is considered to have moderate archaeological significance. However, the results of the test excavation program demonstrate that a discontinuous low density scatter is present in this area. the deposit was shallow and overall the area is considered to have low archaeological significance.

### Gouldsville – Western Corridor – Archaeologically Sensitive Zone

This area contains a number of previously recorded sites which are generally individually assessed to be of low archaeological significance; this is considered appropriate for this area due to the level of disturbance present. The artefacts present are considered to be in a secondary depositional context due to sheet wash, erosion, soil degradation, and original construction of the existing easement. This zone is considered to have low archaeological significance due to the lack of research potential, integrity and limited representativeness of this area.

### Knodlers Lane Zone of Moderate Potential 1 – Zone 4

This zone was assessed as having moderate archaeological significance due to depth of the deposit and stratified nature of artefacts recovered, with the zone considered to have moderate research potential and representativeness. Given the depth of the deposit present and the area being located on a relict terrace, the area is considered to have a complex geomorphic history with potential to provide additional information about the Aboriginal use of the area.

### Knodlers Lane Zone of Moderate Potential 2 – Zone 5

This site is considered to have moderate research potential, moderate representativeness, high rarity and moderate integrity. Sites with potential evidence

of post-contact glass artefacts are rare within NSW. Overall the site is considered to have moderate archaeological significance.

#### CAMBERWELL ZONE OF HIGH POTENTIAL – ZONE 6

This area was located around a newly identified site and was originally considered to have high potential for additional subsurface archaeological deposits to be present. The results of the test excavation at Pole 19 in this zone identified a low density deposit of only three artefacts. The zone of potential is considered to be located in closer proximity to the creekline and not extend as far as the pole location on the southern side of the creek. Overall, this area is considered to have low archaeological significance based on the limited research potential, lack of integrity and limited representativeness of this area.

#### BOWMANS CREEK ZONE OF ARCHAEOLOGICAL SENSITIVITY

This zone of sensitivity is considered to have moderate research potential, high representativeness and rarity, and low integrity due to past archaeological work at the site. Overall, this zone of archaeological sensitivity is considered to have moderate archaeological significance.

## 8.4 CULTURAL SIGNIFICANCE ASSESSMENT

Generally, all Aboriginal sites are of high significance and importance to the Aboriginal community, both locally and more broadly. The Aboriginal social or cultural value of the study area can only be determined by the Aboriginal community and to date, no comments have been received regarding the specific social significance of the study area.

It is acknowledged that the overall significance of a site is determined by both the cultural and scientific values of the area; with cultural values potentially extending beyond a specific study area and incorporating cultural landscapes in many cases. The cultural significance of an area can only be determined by the Traditional Owners of that area. Generally, all sites with evidence of Aboriginal occupation are considered significant to Aboriginal people as part of a larger cultural landscape.

Given the range and number of sites known to exist within and around the study area, it is understood that the region would hold moderate to high cultural significance to Aboriginal people.

## 8.5 STATEMENT OF ARCHAEOLOGICAL SIGNIFICANCE

The sub-transmission line upgrade route and new infrastructure0 for the proposed Hunter Renewable Energy Zone traverses an area rich in Aboriginal cultural heritage. There are areas of high disturbance with little to no archaeological significance, and other areas of moderate to high archaeological significance. Overall, it is acknowledged that a wealth of Aboriginal archaeological sites are present within the route itself and in the wider area, and this significant landscape should be protected wherever possible.

# 9.0 Impact Assessment

## 9.1 Proposed Development

The proposed works for the Hunter Renewable Energy Zone (REZ) project will be undertaken in two stages. The first stage will encompass a 132kV sub-transmission line augmentation, pole replacements, access tracks, and upgrades of sub-transmission stations covering a distance of approximately 60 km from Singleton to Kurri Kurri (Hebdon Greta). Two fibre-optic underground cables from Singleton to Muswellbrook will also be constructed within the existing overhead powerline easements.

The second stage of the proposed works will include the construction of a new Antiene 132kV switching station comprising approximately 8 ha. This will connect with the Singleton to Kurri Kurri sub-transmission line. Additional rearrangement of the existing Upper Hunter sub-transmission network will also be necessary to connect between the new Antiene and existing network in Muswellbrook. All these works will require pole replacements, access track works and vegetation clearing, as well as an upgrade to Ausgrid's Muswellbrook sub-transmission substation with an extension to the existing yard.

During the course of the assessment, the detailed design was developed further and provided opportunities for avoidance of areas that were originally within the proposed impact areas.

## 9.2 Potential Impact

A total of 104 previously recorded sites are located within or in very close proximity to the proposed alignment for the Ausgrid's Hunter-Central Coast REZ project. The proposed works have the potential to impact on all of these.

## 9.3 Ecologically Sustainable Development (ESD)

It is a requirement of Section 2A(2) of the NPW Act to apply the principles of Ecologically Sustainable Development (ESD) when considering any impact to Aboriginal objects and places. ESD integrates economic and environmental considerations, which includes cultural heritage, into decision-making processes. In general, ESD can be achieved through consideration and implementation of two key principles, being intergenerational equity and the precautionary principle.

Intergenerational equity refers to the present generation having consideration for the health, diversity and productivity of the environment for those generations to come. In terms of Aboriginal cultural heritage, this relates to cumulative impacts to Aboriginal objects and places within a region. Intergenerational equity therefore relies on the understanding that a reduction in the number of Aboriginal objects and places within a region results in fewer opportunities for Aboriginal people to access their cultural heritage in the future. Thus, it is essential to understand what comprises

the Aboriginal heritage resource, both known and potential, when assessing intergenerational equity within a region.

The precautionary principle relates to threats of serious or irreversible environmental damage, and that lack of scientific certainty regarding the degree of potential damage should not be a reason to postpone adequate reasonable measures to prevent harm to the environment. Regarding Aboriginal cultural heritage, the precautionary principle relates to where a proposed development may seriously or irreversibly impact Aboriginal objects or places, or their significance; and where there may be uncertainty relating to the integrity, rarity or representativeness of Aboriginal cultural values. The Code of Practice outlines that a precautionary approach should be taken to avoid or reduce damage to Aboriginal objects or places, with cost-effective measures implemented wherever possible. Additionally, a cumulative impact assessment should be completed to determine how the proposed development would impact the cultural resource in the wider region.

Consideration should be given to the significance of the sites present within an area, and whether they are able to transmit cultural information to future generations, or to act as teaching aids.

The study area is considered to have moderate to high cultural and archaeological significance, at least in some parts, and thus avoidance of impact is essential wherever possible; and where avoidance is not possible, appropriate mitigation is required.

### 9.3.1 Intergenerational Equity

The site types within the study area are generally common in the region and destruction of generally disturbed sites would not impact on the knowledge of the past use of the area. The generally disturbed nature of the sites means they are unlikely to have significant value as teaching aids, particularly given most if not all items are considered to be in a secondary depositional context, and thus the sites do not warrant conservation on those grounds. Overall, it is considered that the impact of the destruction of these sites would be negligible with regards to the ongoing transmission of cultural knowledge to future generations, although it is acknowledged that destruction should be avoided where possible.

### 9.3.2 Cumulative Impacts

The cumulative impact of the project on the Aboriginal cultural resource must be considered as part of an assessment, and managed appropriately and sensitively. Avoidance of impact is the best practice approach wherever possible, particularly for sites that are intact, contain high numbers of artefacts, or are considered significant to the community.

In terms of cumulative impact, the site contains evidence of Aboriginal occupation in a range of contexts, with high cultural significance.

Overall, it is considered that the proposal has an acceptable impact on the Aboriginal cultural heritage of the region, particularly if the proposed mitigation measures are enacted. it is acknowledged that the proposed works are generally

discrete in nature and require replacement of existing power poles, or installation of new poles. These have a minimal footprint and would not necessarily destroy the entirety of sites which may extend further than that assessed as part of this project. As such, it is considered that the cumulative impact of the proposed project on Aboriginal cultural heritage would be minor.

## 9.4 Aboriginal Community Input

Consultation with the Aboriginal community has been undertaken for this project in accordance with the *Aboriginal cultural heritage consultation requirements for proponents 2010*. The Aboriginal community will be afforded an opportunity to provide feedback regarding the proposed works and their potential impact on Aboriginal cultural heritage, and the views of the community, where shared, have been incorporated into the final ACHA.

# 10.0 Mitigation Measures

## 10.1 Guiding Principles

Wherever possible and practicable, it is preferred to avoid impact to Aboriginal archaeological sites. In situations where conservation is not possible or practicable, mitigation measures must be implemented.

*The Burra Charter: The Australia ICOMOS Charter for Places of Cultural Significance, 2013* (The Burra Charter) provides guidance for the management of culturally sensitive places. The Burra Charter is predominantly focussed on places of built heritage significance, but the principles are applicable to other places of significance as well.

The first guiding principle for management of culturally significant sites states that "places of cultural significance should be conserved" (Article 2.1). A cautious approach should be adopted, whereby only "as much as necessary but as little as possible" (Article 3.1) should be changed or impacted.

Mitigation measures depend on the significance assessment for the site. Cultural significance of sites should also be considered in consultation with the Aboriginal community during community consultation.

## 10.2 Potential Mitigation Measures

Given the variety of sites identified within the sub-transmission line corridor, a range of mitigation measures are suggested below. Site specific management recommendations are outlined in Table 34.

### 10.2.1 Application for an AHIP

An AHIP will be required for any sites which cannot be avoided within the alignment for the Hunter REZ project. It is proposed to apply for an AHIP to cover the entire route to allow for unexpected finds within the route alignment. This permit should include unmitigated impact, surface collections and salvage excavations in line with the salvage strategy and individual site recommendations outlined in Table 34.

### 10.2.2 Surface Collection

Areas with surface expression of artefacts but without subsurface potential for archaeological deposits may require surface collection of these objects prior to impact occurring. This would require an approved AHIP to permit the collection to occur.

In some instances, surface collection may be proposed and permitted under an approved AHIP, but the artefacts associated with the site may no longer be present at the site due to taphonomic processes over the site in the years since its recording and the attempt to collect the item. In instances where an attempt for collection has been made, and the item cannot be recovered despite best efforts, no further

archaeological mitigation would be required for the site and works that would impact the site may proceed.

### 10.2.3 Salvage Excavations

The results of the test excavation program suggested that a number of test pits warranted further archaeological management in a number of locations. The areas recommended for further archaeological work are as follows:

- Pole 1 TP2 (at HREZ-P1-AD)
- Pole 3 TP3 (at HREZ-P3-AD)
- Pole 4 TP1 (at HREZ-P4-AD)
- Pole 10 TP3 (at HREZ-P10-AD)

The salvage strategy is outlined below.

### 10.2.4 Management Plan

A management plan for sites within the transmission line route should be prepared to provide guidance on future management of these sites. This would provide guidance for unexpected finds within the area and management recommendations for sites that can be avoided. This would include guidance for on-going, periodic monitoring of fencing, ideally prior to vegetation management occurring.

### 10.2.5 Fencing

In some instances, avoidance will be possible. Wherever surface artefact concentrations can be avoided by the proposed works, including vegetation management works, the extent of the concentration should be fenced to prevent unintentional impact. Ideally fencing would be robust, visible, and signed to ensure no impact occurs to these sites.

Existing fencing for known sites should be reviewed and updated as necessary to provide appropriate protection to the site.

### 10.2.6 Update of Site Cards

A number of previously recorded sites are noted in the literature to have been destroyed as part of previous works, but the sites remain valid on AHIMS. These sites (as identified in Table 34 below) should be updated on AHIMS to reflect their current status.

### 10.2.7 ASIRFs

On completion of works for the project subsequent to the issue of any AHIP, including salvage excavations and surface collection, Aboriginal Site Impact Recording Forms (ASIRFs) should be submitted to AHIMS to update the validity of impacted sites and to detail any mitigation measures undertaken.

## 10.3 Known Site Management

The following table outlines the known sites within the sub-transmission line route and recommended management actions for each, if avoidance is not possible. This assumes that avoidance has been considered and is not feasible. Justification of why avoidance is not possible would be necessary.

Table 34: Valid sites within STL route

| AHIMS # | Site Name | Features | Suggested Management |
|---|---|---|---|
| 37-3-0192 | Telecom site 4; | Isolated find | Surface collection; unmitigated impact |
| 37-3-0193/ 37-3-0462 | Telecom site 5; Davies Site 5 | Artefact scatter | Surface collection; unmitigated impact |
| 37-3-0537 | Ashton High Ridge Workshop site (EWA 86) | Artefact scatter/PAD | Avoid |
| 37-3-0539 | Ashton Glennies Flats site 1 | Artefact scatter | Surface collection; unmitigated impact |
| 37-3-0711 | SP2 (Liddell Mine) | Artefact scatter | Surface collection; unmitigated impact |
| **Gouldsville Western Corridor Archaeological Sensitivity** | | | |
| 37-5-0179 | NW 1; | Artefact scatter | Surface collection; unmitigated impact |
| 37-6-3436 | HVO-1293 | Artefact scatter | Surface collection; unmitigated impact |
| 37-6-3437 | HVO-1294 | Isolated find | Surface collection; unmitigated impact |
| 37-6-3438 | HVO-1295 | Isolated find | Surface collection; unmitigated impact |
| 37-6-3443 | HVO-1300 | Artefact scatter | Surface collection; unmitigated impact |
| 37-6-3492 | HVO-1350 | Isolated find | Surface collection; unmitigated impact |
| 37-6-4020 | 2010-HVOSE-12 | Artefact scatter | Surface collection; unmitigated impact |
| 37-6-4022 | 2010-HVOSE-14 | Artefact scatter | Surface collection; unmitigated impact |
| 37-6-4038 | 2010-HVOSE-16 | Artefact scatter | Surface collection; unmitigated impact |
| 37-6-4045 | HVO-1421 | Isolated find | Surface collection; unmitigated impact |
| 37-6-4071 | HVO-1425 | Isolated find | Surface collection; unmitigated impact |
| 37-6-4073 | HVO-1422 | Artefact scatter | Surface collection; unmitigated impact |
| 37-6-0020 | Mt Thorley; | Artefact scatter | Surface collection; unmitigated impact |
| 37-6-0677 | Wark-1 | Artefact scatter/PAD | Avoidance |
| 37-6-1439 | JP 12 | Artefact scatter/PAD | Avoidance |
| 37-6-1442 | JP 21 | Artefact scatter | Avoidance |
| 37-6-1644 | Swamp Creek Catchment 5 | Artefact scatter/PAD | Previously impacted – site card update required |

| AHIMS # | Site Name | Features | Suggested Management |
|---|---|---|---|
| 37-6-1645 | Swamp Creek Catchment 4 | Artefact scatter/PAD | Previously impacted – site card update required |
| **Bowmans Creek Zone of Archaeological Sensitivity** | | | |
| 37-3-0006 | Camberwell Bowman's Creek | Artefact scatter | Avoidance |
| 37-3-0500 | ASH4 Waterhole | Artefact scatter/Grinding grooves | Avoidance |
| 37-3-0767 | Bowmans Ck 12 | Artefact scatter | Surface collection; unmitigated impact |
| 37-3-0772 | Bowmans Ck 16 | Rock engraving | Fence |
| 37-3-0809 | SA8/10, SA8/12, SA8/14 | Artefact scatter/ Grinding grooves | Surface collection; fence grinding grooves |
| 37-3-0810 | SA1/8-SA1/11, SA4/2, SA11/1-SA11/6 | Artefact scatter/PAD | Avoidance |
| 37-3-1198 | MOCO OS-10 | Artefact scatter | Avoidance (site already fenced) |
| 37-3-1502 | Bowmans Creek 6 | Artefact scatter | Surface collection; unmitigated impact |
| 37-3-1518 | Glendell North IF18 | Isolated find/PAD | Avoidance |
| 37-3-1529 | Glendell North IF7 | Isolated find | Surface collection; unmitigated impact |
| 37-3-1555 | Glendell North OS10 | Artefact scatter | Surface collection; unmitigated impact |
| 37-6-0866 | KK-IF-1 | Isolated find | Previously impacted – site card update required |
| 37-6-2007 | KR04 | Isolated find | Surface collection; unmitigated impact |
| 37-6-2009 | KR06 | Artefact scatter | Previously impacted – site card update required |
| 37-6-2010 | KR07 | Artefact scatter | Previously impacted – site card update required |
| 37-6-2011 | KR08 | Artefact scatter | Previously impacted – site card update required |
| **Moderate Zone of Archaeological Potential (AMBS 2009)** | | | |
| 37-6-2012 | KR08a | Artefact scatter | Previously impacted – site card update required |
| 37-6-2013 | KR09 | Artefact scatter | Previously impacted – site card update required |
| 37-6-2014 | KR10 | Artefact scatter/PAD | Previously impacted – site card update required |
| 37-6-2015 | KR11 | Grinding groove | Not a site – site card update required |
| 37-6-2016 | KR12 | Artefact scatter/PAD | Previously impacted – site card update required |
| 37-6-2017 | KR13 | Artefact scatter/PAD | Previously impacted – site card update required |
| 37-6-2935 | KR63 | Artefact scatter | Previously impacted – site card update required |
| 37-6-2066 | KR61 | Artefact scatter | Surface collection; unmitigated impact |
| 37-6-2067 | KR62 | Artefact scatter | Surface collection; unmitigated impact |

| AHIMS # | Site Name | Features | Suggested Management |
|---|---|---|---|
| 37-6-2151 | Branxton Rail 3 | Artefact scatter | Site destroyed ASIRF submitted – incorrect validity on AHIMS |
| 37-6-2154 | Branxton Rail 6 | Isolated find | Surface collection; unmitigated impact |
| 37-6-2159 | Branxton Rail 11 | Isolated find | Site destroyed ASIRF submitted – incorrect validity on AHIMS |
| 37-6-2160 | Branxton Rail 12 | Isolated find | Site destroyed ASIRF submitted – incorrect validity on AHIMS |
| 37-6-2269 | Maitland to Minimbah X3 | Artefact scatter | Site highly impacted/disturbed and likely destroyed - site card update required |
| 37-6-3077 | MTW-503 | Isolated find | Surface collection; unmitigated impact |
| 37-6-3078 | MTW-502 | Isolated find | Surface collection; unmitigated impact |
| 37-6-3081 | MTW-499 | Isolated find | Surface collection; unmitigated impact |
| **Jerrys Plain Zone of Subsurface Archaeological Potential** | | | |
| 37-6-2064 | KR59 | Artefact scatter | Surface collection; unmitigated impact |
| 37-6-3100 | MTW-470 | Isolated find | Surface collection; unmitigated impact |
| 37-6-3101 | MTW-469 | Isolated find | Surface collection; unmitigated impact |
| 37-6-3103 | MTW-467 | Artefact scatter | Surface collection; unmitigated impact |
| 37-6-3156 | MTW-481 | Isolated find | Surface collection; unmitigated impact |
| 37-6-3157 | MTW-480 | Isolated find | Surface collection; unmitigated impact |
| 37-6-3159 | MTW-478 | Isolated find | Surface collection; unmitigated impact |
| 37-6-3158 | MTW-479 | Isolated find | Surface collection; unmitigated impact |
| 37-6-3436 | HVO-1293 | Artefact scatter | Avoidance |
| 37-6-3437 | HVO-1294 | Isolated find | Avoidance |
| 37-6-3438 | HVO-1295 | Isolated find | Avoidance |
| 37-6-3439 | HVO-1296 | Artefact scatter/PAD | Avoidance |
| 37-6-3440 | HVO-1297 | Artefact scatter | Avoidance |
| 37-6-3441 | HVO-1298 | Artefact scatter | Avoidance |
| 37-6-3443 | HVO-1300 | Artefact scatter | Avoidance |
| 37-6-3453 | HVO-1310 | Isolated find | Avoidance |
| 37-6-3492 | HVO-1350 | Isolated find (axe) | Avoidance |
| 37-6-3835 | Mudies Creek Artefact 01 | Artefact scatter/ contact site | Collected under AHIP C0004290; test excavation completed. No further archaeological work required |

| AHIMS # | Site Name | Features | Suggested Management |
|---|---|---|---|
| 37-6-3875 | NEH IF 01 | Isolated find | Surface collection; unmitigated impact |
| 37-6-3914 | NBR/NEH/GH/1 | Artefact scatter | Surface collection; unmitigated impact |
| 37-6-3966 | Mudies Creek Potential Archaeological Deposit | Artefact scatter/PAD | No further archaeological assessment recommended; site likely to have been destroyed by Mudies Creek flood mitigation works<br>Site not considered to extend to northern side of Golden Highway (within current study area)<br>Any work on southern side of highway would require test excavation and surface collection |
| 37-6-4249 | Mudies Creek Artefact 02 | Artefact scatter | Surface collection; unmitigated impact |
| 37-6-4305 | MD028 | Isolated find | Surface collection; unmitigated impact |
| 37-6-4458 | CR-AS-001 | Artefact Scatter | Surface collection; unmitigated impact |
| 37-6-4453 | CR-IF-01 | Isolated Find | Surface collection; unmitigated impact |
| 37-6-4454 | CR-AS-02 | Artefact Scatter | Surface collection; unmitigated impact |
| 37-6-4455 | CR-IF-02 | Isolated Find | Surface collection; unmitigated impact |
| 37-6-1308 | CR-AS-03 | Artefact Scatter | Surface collection; unmitigated impact |
| 37-6-4456 | TL-IF-01 | Isolated Find | Surface collection; unmitigated impact |
| 37-6-4457 | TL-IF-02 | Isolated Find | Surface collection; unmitigated impact |
| 37-6-4459 | PH-AS-01 | Artefact Scatter | Surface collection; unmitigated impact |
| 37-6-4460 | PH-AS-02 | Artefact Scatter | Surface collection; unmitigated impact |
| 37-6-4461 | EC-AS-01 | Artefact Scatter | Surface collection; unmitigated impact |
| 37-6-4462 | EC-AS-02 | Artefact Scatter | Surface collection; unmitigated impact |
| **Knodlers Lane Zone of Moderate Potential 1** | | | |
| 37-6-4464 | KL-IF-01 | Isolated Find | Surface collection |
| 37-6-4465 | KL-AS-02 | Artefact Scatter | Surface collection |
| 37-6-4466 | KL-IF-02 | Isolated Find | Surface collection |
| **Knodlers Lane Zone of Moderate Potential 2** | | | |
| 37-6-4467 | KL-AS-03 (contact site) | Artefact Scatter/PAD | Surface collection |
| 37-6-4471 | MD-AS-01 | Artefact Scatter | Surface collection; unmitigated impact |
| 37-6-4473 | MD-IF-01 | Isolated Find | Surface collection; unmitigated impact |
| 37-6-4474 | MD-AS-02 | Artefact Scatter | Surface collection; unmitigated impact |
| 37-3-1665 | MD-IF-02 | Isolated Find | Surface collection; unmitigated impact |

| AHIMS # | Site Name | Features | Suggested Management |
|---|---|---|---|
| **Camberwell Zone of High Potential** | | | |
| 37-3-1666 | MD-AS-03 | Artefact Scatter/PAD | Unmitigated impact |
| 37-2-6645 | WR-IF-01 | Isolated Find | Surface collection; unmitigated impact |
| **Sites identified during test excavations** | | | |
| Pending | HREZ-P1-AD | Artefacts | Salvage excavations |
| Pending | HREZ-P3-AD | Artefacts | Salvage excavations |
| Pending | HREZ-P4-AD | Artefacts | Salvage excavations |
| Pending | HREZ-P5-AD | Artefacts | Unmitigated impact |
| Pending | HREZ-P6-AD | Artefacts | Unmitigated impact |
| Pending | HREZ-P7-AD | Artefacts | Unmitigated impact |
| Pending | HREZ-P8-AD | Artefacts | Unmitigated impact |
| Pending | HREZ-P9-AD | Artefacts | Unmitigated impact |
| Pending | HREZ-P10-AD | Artefacts | Salvage excavations |
| Pending | HREZ-P16-AD | Artefacts | Unmitigated impact |
| Pending | HREZ-P17-AD | Artefacts | Unmitigated impact |
| Pending | HREZ-P19-AD | Artefacts | Unmitigated impact |
| Pending | HREZ-Z3AD-01 | Artefacts | Unmitigated impact |
| Pending | HREZ-Z3AD-02 | Artefacts | Unmitigated impact |
| Pending | HREZ-Z3AD-03 | Artefacts | Unmitigated impact |
| Pending | HREZ-Z3AD-04 | Artefacts | Unmitigated impact |
| Pending | HREZ-Z3AD-05 | Artefacts | Unmitigated impact |

## 10.4 Salvage Strategy

As mentioned above, salvage excavations are recommended for four pole locations. It is proposed to undertake a staged salvage strategy, whereby the original 50 x 50cm test pit location will be enlarged to a 1m$^2$ salvage pit, and subsequently enlarged to a 3 x 3m (9m$^2$) salvage pit. Careful field records would be kept of the artefacts recovered from these Stage 1 pits, to identify the need for further expansion as part of Stage 2. Triggers for expansion are outlined below in Section 10.6.

Areas which meet expansion triggers would then be expanded to a maximum of 25m$^2$ in line with the trigger criteria. This area is considered appropriate given the proposed impact to the area and the nature of the assemblage identified to date at the four salvage locations. Stage 2 salvage would follow the artefact deposit as appropriate.

At Knodlers Lane 2 – Zone 5, evidence of flaked glass artefacts was noted on the ground surface. Any subsurface excavations at this site must be undertaken in accordance with an approved AHIP due to the presence of contact archaeology. It is understood that no pole locations fall within this area; but if this changes in future, testing and salvage would need to occur under an AHIP for the site.

## 10.5 Staged Salvage Excavation

### 10.5.1 Initial Pits – Stage 1

- Four previously excavated 50 x 50cm test pits will be expanded to 1m$^2$;
- Additional test pits would be excavated around this location to form a 3x3m salvage pit (9m$^2$);
- Pits will be oriented north – south using a handheld compass for accuracy;
- Artefact concentration will be recorded on graph paper to keep track of directionality and artefact concentrations; and
- Open area salvage will continue to 9m$^2$ in these four areas.

### 10.5.2 Open Area Salvage – Stage 2

- Based on the results of Stage 1 salvage, additional salvage pits to a maximum of 25m$^2$ at any one location would be excavated;
- Artefact concentration will be recorded on graph paper to keep track of directionality and artefact concentrations; and
- Excavation would cease if triggers are no longer being met.

### 10.5.3 Excavation Methodology

- Excavated pits will be 1m$^2$, excavated in contiguous 50 x 50cm quadrats;
- Pits will be excavated in 5cm spits by hand using a shovel, hand shovel and trowel. Spit depths will be consistently checked with a hand tape measure to ensure accuracy of excavation depth;

- Salvage pits at Zone 1 Pole 4 would be bulk excavated in line with advice from Dr Beth White and the results of the lithic analysis, rather than excavated in spits;
- Open area pits will be 1m$^2$, and excavated in 5cm spits and 50 x 50cm quadrats;
- If cultural features (e.g. hearths, heat treatment pits, knapping floors) are identified during excavation, excavation with hand tools (e.g. hand shovel and shovel) will cease and continue with trowel only;
- Locations of identified features will be planned onto 1mm graph paper. X, Y and Z coordinates of individual artefacts from in-situ knapping floors will be recorded and photographed prior to removal (where possible) and continuation of excavation;
- Charcoal samples for dating ($C_{14}$) will only be taken during in-situ excavation of accurately identified cultural features (e.g. hearths and heat treatment pits);
- Any charcoal samples will be recovered and placed into aluminium foil, securely sealed, and placed into zip lock bags, clearly labelled and provenanced;
- Appropriate soil samples will be taken at regular vertical intervals from the section profile for either OSL, pollen and/or particle analysis;
- Samples of artefacts to be collected without being washed to assist in the identification of residues for residue analysis;
- The soil from each spit will be placed in 10L plastic buckets and transported to the sieving station;
- To ensure sufficient control of each spit excavated, a bag and tag will be written to accompany the buckets from each spit. The following information will be recorded on each bag and tag: site name, pit location (easting & northing) and applicable spit;
- All material from each pit will be dry sieved through table sieves (1 x 1m) with a wire mesh aperture gauge of 5mm, with the option to include 3mm mesh as appropriate;
- Wet sieving may be necessary depending on the soil matrix, and will be implemented if necessary;
- If necessary, shoring using plywood planks and metal pickets to stabilise the deposit will be used;
- All material recovered from the sieving process will be checked by a qualified archaeologist with experience in artefact identification prior to being placed into the spit bag;
- Artefact counts will be recorded for each spit;
- Lithic analysis will be undertaken by Beth White who is a specialist with suitable experience (20+ years), or a similarly qualified expert lithic analyst.

### 10.5.4 Recording

- Each pit will be recorded on a standard excavation pit sheet with the following information:
    - site name;
    - date;
    - excavator name;
    - spit number;
    - spit depth;
    - pit location (easting & northing);
    - start levels & end levels;
    - bucket count and end total bucket count;
    - soil description;
    - description of disturbance;
    - description of artefacts (material type & artefact type if *in situ*);
    - in situ recording of artefacts where possible (xyz coordinates); and
    - photograph details (from surface and of each spit to base).
- Sections will be planned on 1mm grid paper as appropriate.

## 10.6 Expansion Triggers

The presence of any one or combination of the following triggers will determine if further excavation would inform the expansion of the initial Stage 1 pits and will be utilised during further expansion in Stage 2.

- The relative density of artefact frequencies. If higher numbers of artefacts are identified in one or more parts of the initial excavation, they will be further explored;
- Variations of raw materials that warrant further investigation;
- Unusual artefact types are found, e.g. complete flakes, tools, cores, other types such as ground edged implements etc;
- Evidence of artefact manufacture is found, e.g. conjoining artefacts, flaking debitage, micro-debitage, complete flakes, broken flakes; tool manufacture or maintenance;
- Evidence of different activities, indicated by different artefact types e.g. backed artefacts, partly made backed artefacts and backing debitage, tool retouching debitage, debitage with dorsal grinding and retouched and/or used tools, different raw materials and raw materials with distinctive banding or inclusions;
- Chronological material (any materials that can be used to date artefactual materials);
- Taphonomic/site formation indicators; and
- Any other relevant features appropriate for further investigations, e.g. archaeological features such as evidence of burning in a hearth, stone features; clay features etc.

## 10.7 CONTACT ARCHAEOLOGY

To date, a number of sites containing direct evidence of contact era archaeology such as flaked glass or ceramic have been identified within the immediate vicinity of the study area, including at Knodlers Lane 2 – Zone 5. As such, there remains the potential for this type of evidence to be located within the study area. None of the test excavations for the current project identified flaked glass within the excavated artefact assemblage. However, as there is some potential for these to occur within the wider region, the following information would guide the salvage excavations within the study area and would be implemented in the event evidence of contact archaeology is encountered or suspected.

### 10.7.1 FLAKED GLASS

The following list of criteria has been prepared by Dr Beth White and has been utilised on other sites in the wider Sydney region with potential for contact archaeology.

Criteria to identify flaked glass artefacts and to distinguish these from glass which was not deliberately flaked have been developed and implemented with varying success. Issues and literature have been reviewed by (Goward 2011:24-33). Glass dating to the early historic phase from the First Government House site in Sydney has been analysed (Egloff and Smith 1987) and provides an early historic assemblage for comparative analysis.

Studies of glass to identify flaked artefacts have been conducted in the Sydney region (Goward 2011; Richardson 2004; White 2018). The following criteria have been used (White 2018):

1. Glass dateable to the late 18th and early 19th centuries – indicated by method of manufacture, makers' mark, colour (black, dark olive, olive, light green/aqua, clear window or mirror glass),
2. Presence of technological attributes similar to those used to identify stone artefacts (cores, flakes, flake fragments),
3. Presence of convincing retouch – scar location on functional edges, patterned retouch (regular orientation and initiation of scars, continuous retouch, regular scar size),
4. Absence of attributes related to unintentional damage – crushing on high points/parts of the object, unpatterned retouch (intermittent scars, large isolated scars, scars of irregular size),
5. Weathering – scars should be as weathered as the original bottle surfaces,
6. Evidence of a reduction sequence – cores and flakes, worked and unworked fragments from the same bottle, preference for particular bottle parts (e.g. thicker glass from bottle base or shoulder, paucity of bottle walls), patterns of repeated flake removals,
7. Presence of microscopic usewear and/or residues,

8. Presence of associated contemporary materials (context) – recent stone tools, scarred trees, dateable burials, shell midden, fish hook technology, Contact phase rock art,
9. Available historical evidence – historical documents, oral histories.

Of these criteria, the first five may be most useful for classifying individual pieces.

In addition, Richardson (2004) suggests a probability rating to indicate the overall likelihood of an item being an Aboriginal glass artefact, based on the recorded information. (e.g. no/low, moderate or high probability).

### 10.7.2 Contact Archaeology Excavation Methodology

Should Apex Archaeology identify items of flaked glass or other modified material such as ceramics during our staged salvage program, all due care will be exercised and the following recording will be undertaken:

- Locations of identified items of flaked glass (or other historical material) will be planned onto 1mm graph paper. X, Y and Z coordinates of individual artefacts from in-situ knapping floors will be recorded and photographed prior to removal (where possible) and continuation of excavation;
- Material type will be recorded (glass, ceramic, etc); and
- Samples of glass or ceramic artefacts will be collected without being washed to assist in the identification of residues for residue analysis wherever possible.

## 10.8 Surface Collection

For sites requiring surface collection, the GPS location of the site would be relocated and the area examined for evidence of artefacts. Artefacts would then be collected, photographed, and a basic catalogue of items prepared. Items would then be placed outside of the proposed works area in a location unlikely to be disturbed in future, either on the ground surface or buried in accordance with Requirement 26 of the Code of Practice; depending on the wished of the RAPs for the project. The new location of the artefacts would be recorded and a new site card submitted to AHIMS to record their deposition.

## 10.9 Additional Mitigation

As a result of the consultation undertaken for the project, WNAC requested the proponent consider implementing cultural community offsets as part of the project approvals, noting that a similar process had been implemented for the Hunter Expressway which provided community led outcomes for Aboriginal employment, close the gap programs, training and land asset projects to assist in building the Aboriginal economy. Ausgrid should consider whether such a program can be implemented as part of this or wider Ausgrid projects.

# 11.0 Permit Requirements

## 11.1 Permit Area

An application for an AHIP under Part 6 of the *National Parks and Wildlife Act 1974* is required for the proposed works associated with the Hunter Renewable Energy Zone project, prior to the commencement of required works. The study area is further defined as Ausgrid's Hunter-Central Coast Renewable Energy Zone. Figure 49 shows the proposed AHIP boundary.

## 11.2 Recommended Permit Type

It is recommended that the AHIP permit mitigation measures as outlined above, prior to the commencement of works. This includes surface collection, salvage excavations and unmitigated impact as appropriate. The term of the AHIP requested is 25 years to allow for ongoing management and maintenance of the easements associated with the upgraded sub-transmission route.

## 11.3 AHIMS Numbers

A total of 80 valid AHIMS sites fall within the study area. Impact is proposed to 64 of the artefact sites, while 16 sites can be avoided by the proposed works. Table 35 provides a summary of the impact assessment for sites within the study area.

Table 35: Summary of Impact Assessment

| Site Number | Type of harm | Degree of harm | Consequence of harm |
|---|---|---|---|
| 37-3-0192 | Direct | Total | Total loss of value |
| 37-3-0193/ | Direct | Total | Total loss of value |
| 37-3-0462 | Direct | Total | Total loss of value |
| 37-3-0537 | Direct | Total | Total loss of value |
| 37-3-0539 | Direct | Total | Total loss of value |
| 37-3-0711 | Direct | Total | Total loss of value |
| 37-5-0179 | Direct | Total | Total loss of value |
| 37-6-3436 | Direct | Total | Total loss of value |
| 37-6-3437 | Direct | Total | Total loss of value |
| 37-6-3438 | Direct | Total | Total loss of value |
| 37-6-3443 | Direct | Total | Total loss of value |
| 37-6-3492 | Direct | Total | Total loss of value |
| 37-6-4020 | Direct | Total | Total loss of value |
| 37-6-4022 | Direct | Total | Total loss of value |
| 37-6-4038 | Direct | Total | Total loss of value |
| 37-6-4045 | Direct | Total | Total loss of value |
| 37-6-4071 | Direct | Total | Total loss of value |
| 37-6-4073 | Direct | Total | Total loss of value |
| 37-6-0020 | Direct | Total | Total loss of value |
| 37-3-0767 | Direct | Total | Total loss of value |
| 37-3-0809 | Direct | Total | Total loss of value |
| 37-3-1502 | Direct | Total | Total loss of value |
| 37-3-1529 | Direct | Total | Total loss of value |
| 37-3-1555 | Direct | Total | Total loss of value |
| 37-6-2007 | Direct | Total | Total loss of value |

| Site Number | Type of harm | Degree of harm | Consequence of harm |
|---|---|---|---|
| 37-6-2066 | Direct | Total | Total loss of value |
| 37-6-2067 | Direct | Total | Total loss of value |
| 37-6-2154 | Direct | Total | Total loss of value |
| 37-6-3077 | Direct | Total | Total loss of value |
| 37-6-3078 | Direct | Total | Total loss of value |
| 37-6-3081 | Direct | Total | Total loss of value |
| 37-6-2064 | Direct | Total | Total loss of value |
| 37-6-3100 | Direct | Total | Total loss of value |
| 37-6-3101 | Direct | Total | Total loss of value |
| 37-6-3103 | Direct | Total | Total loss of value |
| 37-6-3156 | Direct | Total | Total loss of value |
| 37-6-3157 | Direct | Total | Total loss of value |
| 37-6-3159 | Direct | Total | Total loss of value |
| 37-6-3158 | Direct | Total | Total loss of value |
| 37-6-3875 | Direct | Total | Total loss of value |
| 37-6-3914 | Direct | Total | Total loss of value |
| 37-6-4249 | Direct | Total | Total loss of value |
| 37-6-4305 | Direct | Total | Total loss of value |
| 37-6-4458 | Direct | Total | Total loss of value |
| 37-6-4453 | Direct | Total | Total loss of value |
| 37-6-4454 | Direct | Total | Total loss of value |
| 37-6-4455 | Direct | Total | Total loss of value |
| 37-6-1308 | Direct | Total | Total loss of value |
| 37-6-4456 | Direct | Total | Total loss of value |
| 37-6-4457 | Direct | Total | Total loss of value |
| 37-6-4459 | Direct | Total | Total loss of value |
| 37-6-4460 | Direct | Total | Total loss of value |
| 37-6-4461 | Direct | Total | Total loss of value |
| 37-6-4462 | Direct | Total | Total loss of value |
| 37-6-4464 | Direct | Total | Total loss of value |
| 37-6-4465 | Direct | Total | Total loss of value |
| 37-6-4466 | Direct | Total | Total loss of value |
| 37-6-4467 | Direct | Total | Total loss of value |
| 37-6-4471 | Direct | Total | Total loss of value |
| 37-6-4473 | Direct | Total | Total loss of value |
| 37-6-4474 | Direct | Total | Total loss of value |
| 37-3-1665 | Direct | Total | Total loss of value |
| 37-3-1666 | Direct | Total | Total loss of value |
| 37-2-6645 | Direct | Total | Total loss of value |

## 11.4 PREVIOUS AHIPS

Three previous AHIPs have been previously issued over parts of the study area. the areas of these AHIPs have been excised from the current AHIP boundary. These AHIPs are as follows:

- AHIP #5199 for the New England Highway Muswellbrook Bypass on behalf of Transport for NSW.

- AHIP #C0000623 for Liddell Coal Operations Development Modification 5 (DA 305-11-01) on behalf of Liddell Coal Operations Pty Ltd.
- AHIP #C0004064 for the New England Highway upgrade between Belford and the Golden Highway on behalf of the Roads and Maritime Services.

No other AHIPs have been issued over or adjacent to the current study area to the best of our knowledge.

## 11.5 Restricted Information and Confidentiality

Aboriginal stakeholders for the project have not identified any restricted, confidential or culturally sensitive information related to the project and this AHIP application.

It is noted that all AHIMS data and Aboriginal site specific information, along with associated mapped information, must be treated as confidential and not shared with the general public.

## 11.6 Copyright

Apex Archaeology asserts its Moral Rights in this work, unless otherwise indicated, in accordance with the Commonwealth *Copyright (Moral Rights) Amendment Act 2000*. Apex Archaeology vests copyright in all material produced in this report by Apex Archaeology (excluding pre-existing material) in Ausgrid, and retains the right to use all the material produced by Apex Archaeology for our ongoing business and professional activities (including but not limited to professional presentations, academic papers and/or publications).

## 11.7 Artefact Management

Artefacts collected during surface collections or recovered during salvage excavations will be reburied on site at a location that will not be impacted in future, in consultation with Ausgrid and the RAPs for the project. Reburial will likely be completed once the proposed works have been finalised to ensure no impact occurs to the items. Reburial will be undertaken in accordance with Requirement 26 of the Code of Practice

PO Box 236
NOWRA
NEW SOUTH WALES 2541

0 22 44
kilometres

Projection:
MGA Zone 56 (GDA 94)
Base Map:
Bing Maps 2025
Final - Version 1

Figure 49: AHIP Boundary for HCC REZ

# 12.0 RECOMMENDATIONS

The following recommendations are made on the basis of:

- The statutory requirements of the NP&W Act 1974;
- The requirements of Heritage NSW;
- The results of the cultural and archaeological assessment;
- An assessment of the likely impacts of the proposed development; and
- The interests of the registered Aboriginal stakeholders and the cultural heritage record.

It was found that:

- The Hunter Renewable Energy Zone (REZ) passes through a rich cultural landscape with many previously and newly recorded sites present.
- 80 previously recorded AHIMS sites are located within a 50m radius of the proposed sub-transmission line route.
- 26 newly identified sites were located within a 50m radius of the proposed sub-transmission line route.
- Nine zones of archaeological sensitivity were identified, associated with previously or newly identified sites.
- The proposed works have potential to avoid many of the identified sites, either through ensuring pole placement avoids known site locations, or the use of alternative construction methods which reduce or avoid impact.
- Test excavations confirmed the presence of artefact concentrations at all locations tested.
- Generally, a relatively low density artefact deposit was identified across the landscape, although in some areas higher densities were identified.
- Mitigation and management recommendations have been made for the sites that cannot be avoided by the proposed works.

Therefore, the following recommendations have been made.

### RECOMMENDATION 1: APPLICATION FOR AHIP NECESSARY

Application for an Aboriginal Heritage Impact Permit (AHIP) to permit impact to the sites that cannot be avoided is required, and should include permission to undertake surface collection of any artefacts on the ground surface within the proposed impact areas, with the items reburied on site. Additionally, the AHIP should permit salvage excavation at four locations in accordance with the attached salvage strategy.

If the surface artefacts cannot be relocated, the AHIP should permit unmitigated impact to the site location.

### Recommendation 2: Maintain Aboriginal Community Consultation

Consultation with the RAPs in accordance with the ACHCRs regarding the project should continue, in order to keep the RAPs informed about the management of Aboriginal cultural heritage within the study area.

Consultation undertaken for this project must be maintained at least every six months in order to maintain validity. It is the Proponent's responsibility to ensure consultation remains valid. In the event a gap of more than six months occurs between consultation events, it may be necessary to restart the consultation process to support any AHIP applications that are necessary.

### Recommendation 3: Implementation of ACHMP

An Aboriginal Cultural Heritage Management Plan has been prepared to guide the management of Aboriginal sites before, during and after upgrade works have been undertaken. This includes guidance around salvage excavations, management of recovered artefacts, and management of unexpected finds during on-going maintenance works.

### Recommendation 4: Stop Work Provision

Should unanticipated Aboriginal archaeological material be encountered during site works, all work must cease in the vicinity of the find and an archaeologist contacted to make an assessment of the find and to advise on the course of action to be taken. Further archaeological assessment and Aboriginal community consultation may be required prior to the recommencement of works. Any objects confirmed to be Aboriginal in origin must be reported to Heritage NSW.

In the unlikely event that suspected human remains are identified during construction works, all activity in the vicinity of the find must cease immediately and the find protected from harm or damage. The NSW Police and the Coroner's Office must be notified immediately. If the finds are confirmed to be human and of Aboriginal origin, further assessment by an archaeologist experienced in the assessment of human remains and consultation with both Heritage NSW and the RAPs for the project would be required.

This recommendation should be included in any Construction Environmental Management Plan (CEMP) developed for the site.

### Recommendation 5: Development Boundaries

The proposed development works must be contained within the assessed boundaries for this project. If there is any alteration to the boundaries of the proposed development to include areas not assessed as part of this archaeological investigation, further investigation of those areas may be necessary to assist in appropriately managing Aboriginal objects and places which may be present.

### RECOMMENDATION 6: REPORTING

One digital copy of this report should be forwarded to Heritage NSW to support the required AHIP application for the project, along with required supporting documentation.

One digital copy of this report should be forwarded to Heritage NSW for inclusion on the Aboriginal Heritage Information Management System (AHIMS).

One copy of this report should be forwarded to each of the registered Aboriginal stakeholders for the project.

## 13.0 BIBLIOGRAPHY


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# Appendix A: Correspondence Log

23115 Hunter REZ – Consultation Log

| Date | Type of Consultation | Parties Contacted | Outcome |
|---|---|---|---|
| 06/09/2023 | Requesting details of Aboriginal individuals or organisations with cultural knowledge of the area and who may wish to participate in consultation (Section 4.1.1 of ACHCRs) | Heritage NSW | 12/09/2023 – email letter received from Heritage NSW Stakeholder Lists for Cessnock, Singleton and Muswellbrook LGAs |
| | | Wanaruah LALC | 08/09/2023 – email received from De-anne advising WLALC would like to be registered and that they have contacted the Hunter Valley Aboriginal Corporation to advise them of the project. |
| | | Mindaribba LALC | No response |
| | | (Hunter) LLS | No response |
| | | Cessnock City Council | 12/09/2023- email received from Jessica Elliott advising council has a Community Directory that has information on local Aboriginal and Torres Strait Islander services. However, she did not note that there are Aboriginal individuals and/or groups who are registered with council and wish to be consulted on heritage matters. |
| | | Singleton Council | 08/09/2023 – email received from Michelle Reichert advising to contact Ungooroo Aboriginal Corporation, Wonnarua Nation Aboriginal Corporation and Wanaruah Local Aboriginal Land Council |
| | | Muswellbrook Shire Council | 13/09/2023 – email advising to contact Wanaruah Local Aboriginal Land Council and Hunter Valley Aboriginal Corporation. |
| | | NTSCorp | 15/09/2023 – email receive requesting registration of the Gomeroi People Native Title Claim Group and to contact notifications@ntscorp.com.au |
| | | ORALRA | 15/09/2023 – emailed letter received advising to contact Nadine Russell at Worimi Conservation Lands Nadine.russell@environment.nsw.gov.au and wscott@ntscorp.com.au |
| | | National Native Title Tribunal | 06/09/2023 – NNTT Vision Map checked and no Native Title registrations or claimants are within the study area. |

| | | | |
|---|---|---|---|
| 21/09/2023 | Advertisement for registrations of interest for consultation from Aboriginal people or organisations with cultural knowledge relevant to the area | Advertisement placed in *The Newcastle Herald* | No response |
| 06/09/2023 | Letters sent to identified individuals and organisations from Section 4.1.1 of ACHCRs<br><br>Letter sent via email if address provided; and by post where email not available | A1 Indigenous Services | 02/10/2023 email received requesting registration |
| | | Aboriginal Native Title Consultants | No response |
| | | AGA Services | 26/09/2023 – email received requesting registration but the email used was from Cacatua Cultural Services. Rebecca called and spoke with George, who advised to register both groups and use the AGA email for AGA services |
| | | Aliera French Trading | 25/09/2023 – email received requesting registration |
| | | Amanda Hicky Cultural Services | 03/10/2023 – email requesting registration |
| | | Arwarbukarl Cultural Resource Association, Miromaa Aboriginal Language and Technology Centre | No response |
| | | Awabakal & Guringai Pty Ltd | No response |
| | | Awabakal Descendants Traditional Owners | No response |
| | | Awabakal Local Aboriginal Land Council | No response |
| | | Awabakal Traditional Owners Aboriginal Corporation | No response |
| | | Cacatua Culture Consultants | 26/09/2023 – email received requesting registration |
| | | Carol Ridgeway-Bissett | No response |
| | | Corroboree Aboriginal Corporation | 14/10/2023 - Marilyn registered late on Saturday. RB replied on Monday and advised Marilyn that she registered Corroboree for the project but cannot extend the deadline for their responses to the information and methodology document. RB sent the info and method on the 16/10/2023 |
| | | Crimson-Rosie | No response |
| | | Culturally Aware | No response |

| | | | |
|---|---|---|---|
| | | D F T V Enterprises | 21/09/2023 – email received requesting registration |
| | | Deslee Talbott Consultants | No response |
| | | Didge Ngunawal Clan | 21/09/2023 – email received requesting registration |
| | | Gali Heritage Consultants | No response |
| | | Gidawaa Walang & Barkuma Neighbourhood Centre Inc. | No response |
| | | Gilay Consultants | No response |
| | | Girragirra Murun Aboriginal Corporation | No response |
| | | Glen Morris | No response |
| | | Gomeroi People (c/- NTSCORP Ltd) | Already registered |
| | | Gomery Cultural Consultants | 23/09/2023 – email received requesting registration. David Horton requested that we forward all correspondence to his email address not Leanne's, who is on the NSW Stakeholders list. Rebecca Bryant from Apex Archaeology forwarded David, Barry Gunther's email to update his details with Heritage NSW. |
| | | Gunjeewong Cultural Heritage Aboriginal Corporation | 26/09/2023 – email received requesting registration |
| | | Guthers Aboriginal Corporation | No response |
| | | Hunter Traditional Owner | No response |
| | | Hunter Valley Aboriginal Corporation | 28/09/2023 – email received requestion registration. The CEO, Kylie Pascoe, advised in the email that the group is specifically interested in the Muswellbrook region. Rebecca Bryant phoned Kylie to ask whether she is referring to the area within the Muswellbrook LGA. Kylie confirmed this is correct and also parts within Singleton, but not as far south as Kurri (Cessnock LGA). |
| | | Hunter Valley Cultural Surveying | No response |
| | | Hunters & Collectors | No response |
| | | Indigenous Learning | No response |
| | | Jarban & Mugrebea | No response |
| | | Jumbunna Traffic Management Group Pty Ltd | No response |

| | | | |
|---|---|---|---|
| | | Kamilaroi Yankuntjatjara Working Group | No response |
| | | Karuah Local Aboriginal Land Council | No response |
| | | Kauma Pondee Inc. | No response |
| | | Kawul Pty Ltd trading as Wonn1 Sites | No response |
| | | Konanggo Aboriginal Cultural Heritage Services | 26/09/2023 – phone call received requesting registration |
| | | Long Gully Cultural Services | 22/09/2023 – email received requesting registration |
| | | Lower Hunter Aboriginal Incorporated | No response |
| | | Lower Hunter Wonnarua Cultural Services | No response |
| | | Mayaroo | No response |
| | | Mindaribba Local Aboriginal Land Council | No response |
| | | Murra Bidgee Mullangari Aboriginal Corporation | No response |
| | | Myland Cultural & Heritage Group | No response |
| | | Nunawanna Aboriginal Corporation | No response |
| | | Renee Sales | No response |
| | | Robert Syron | No response |
| | | Scott Franks on the behalf of the Wonnarua PBC | No response |
| | | Sharon Hodgetts | No response |
| | | Steve Talbott | No response |
| | | The Men's Shack Indigenous Corporations | No response |
| | | Thomas Dahlstrom | 21/09/2023 – email received requesting registration |
| | | Trent Hodgetts | No response |
| | | Ungooroo Aboriginal Corporation | 22/09/2023 – email received requesting registration |

| | | | |
|---|---|---|---|
| | | Upper Hunter Wonnarua Council Inc | 06/10/2023 – phone call received from Rhonda Perry requesting registration. Rhonda would prefer all correspondence be sent by mail. |
| | | Wallagan Cultural Services | 26/09/2023 – email received requesting registration |
| | | Wanaruah Local Aboriginal Land Council | No response |
| | | Warragil Cultural Services | No response |
| | | Wattaka Pty Ltd | No response |
| | | Widescope Indigenous Group | 27/09/2023 – email received form Steve Hickey requesting registration |
| | | Wingarra Wilay Aboriginal Corporation | No response |
| | | Wonnarua Culture Heritage | No response |
| | | Wonnarua Elders Council | No response |
| | | Wonnarua Nation Aboriginal Corporation | 27/09/2023 – email received requesting registration |
| | | Wurrumay Pty Ltd | No response |
| | | Yarrawalk Pty Ltd | 21/09/2023 – email received requesting registration |
| | | Yinarr Cultural Services | 05/10/2023 – email received from Kathie Steward requesting registration. Kathie also sent a lot of additional information |
| | Late Registrations | Kevin Duncan | 09/10/2023 - email received from Kevin Duncan requesting registration. RB phoned and emailed Kevin on the same day and advised that registrations had closed five days ago, but she is happy to register him but cannot extend the response date for the information and method document. RB set the info and method doc in a separate email later that day. |
| | | Corroboree Aboriginal Corporation | 14/10/2023 – email received from Marilyn on Saturday requesting registration. RB replied on Monday 16/10/2023 and advised that she can register the group but will be unable to extend the reply date for the document. |
| 06/10/2023 | Provision of project information and methodology | A1 Indigenous Services | 19/10/2023 – email received advising the group supports the information and assessment. |
| | | AGA Services | No response |

| | | | |
|---|---|---|---|
| | | Aliera French Trading | No response |
| | | Amanda Hickey Cultural Services | 19/10/2023 – email received advising the group supports the information and assessment. |
| | | Cacatua Culture Consultants | No response |
| | | Corroboree Aboriginal Corporation | No response |
| | | D F T V Enterprises | No response |
| | | Didge Ngunawal Clan | No response |
| | | Gomeroi People (c/- NTSCORP Ltd) | No response |
| | | Gomery Cultural Consultants | No response |
| | | Gunjeewong Cultural Heritage Aboriginal Corporation | No response |
| | | Hunter Valley Aboriginal Corporation | No response |
| | | Kevin Duncan | No response |
| | | Konanggo Aboriginal Cultural Heritage Services | 08/10/2023 – email received advising the group supports the information and assessment. |
| | | Long Gully Cultural Services | 09/10/2023 – email received advising the group supports the information and assessment. |
| | | Thomas Dahlstrom | No response |
| | | Ungooroo Aboriginal Corporation | No response |
| | | Upper Hunter Wonnarua Council Inc | No response |
| | | Wallagan Cultural Services | No response |
| | | Widescope Indigenous Group | No response |
| | | Wanaruah Nation Aboriginal Corporation | 09/10/2023 – email of thanks received. |
| | | Wanaruah Local Aboriginal Land Council | No response |
| | | Yarrawalk | No response |
| | | Yinarr Cultural Services | No response |
| 02/11/2023 | Fieldwork invitation | Wanaruah Nation Aboriginal Corporation | Attended survey |
| | | Cacatua | Attended survey |

| | | | |
|---|---|---|---|
| 22/5/2024 | Project update to all RAPs advising project is still ongoing and further information will be provided in due course. | A1 Indigenous Services | No response |
| | | AGA Services | No response |
| | | Aliera French Trading | No response |
| | | Amanda Hickey Cultural Services | No response |
| | | Cacatua Culture Consultants | No response |
| | | Corroboree Aboriginal Corporation | No response |
| | | D F T V Enterprises | No response |
| | | Didge Ngunawal Clan | No response |
| | | Gomeroi People (c/- NTSCORP Ltd) | No response |
| | | Gomery Cultural Consultants | No response |
| | | Gunjeewong Cultural Heritage Aboriginal Corporation | No response |
| | | Hunter Valley Aboriginal Corporation | No response |
| | | Kevin Duncan | No response |
| | | Konanggo Aboriginal Cultural Heritage Services | No response |
| | | Long Gully Cultural Services | No response |
| | | Thomas Dahlstrom | 30/5/2024 – response stating “thank you Rebecca” |
| | | Ungooroo Aboriginal Corporation | No response |
| | | Upper Hunter Wonnarua Council Inc | No response |
| | | Wallagan Cultural Services | No response |
| | | Widescope Indigenous Group | No response |
| | | Wanaruah Nation Aboriginal Corporation | No response |
| | | Wanaruah Local Aboriginal Land Council | No response |
| | | Yarrawalk | No response |
| | | Yinarr Cultural Services | No response |
| 11/11/2024 | Project update to all RAPs advising project is still ongoing and further | A1 Indigenous Services | No response |
| | | AGA Services | No response |
| | | Aliera French Trading | No response |

| | | | |
|---|---|---|---|
| | information will be provided in due course. | Amanda Hickey Cultural Services | No response |
| | | Cacatua Culture Consultants | No response |
| | | Corroboree Aboriginal Corporation | No response |
| | | D F T V Enterprises | No response |
| | | Didge Ngunawal Clan | No response |
| | | Gomeroi People (c/- NTSCORP Ltd) | No response |
| | | Gomery Cultural Consultants | No response |
| | | Gunjeewong Cultural Heritage Aboriginal Corporation | No response |
| | | Hunter Valley Aboriginal Corporation | No response |
| | | Kevin Duncan | No response |
| | | Konanggo Aboriginal Cultural Heritage Services | No response |
| | | Long Gully Cultural Services | No response |
| | | Thomas Dahlstrom | 30/05/2024 – “thank you Rebecca” |
| | | Ungooroo Aboriginal Corporation | No response |
| | | Upper Hunter Wonnarua Council Inc | No response |
| | | Wallagan Cultural Services | No response |
| | | Widescope Indigenous Group | No response |
| | | Wanaruah Nation Aboriginal Corporation | No response |
| | | Wanaruah Local Aboriginal Land Council | No response |
| | | Yarrawalk | No response |
| | | Yinarr Cultural Services | No response |
| 19/05/2025 | Project update to all RAPs advising project is still ongoing and further information will be provided in due course. | A1 Indigenous Services | No response |
| | | AGA Services | No response |
| | | Aliera French Trading | No response |
| | | Amanda Hickey Cultural Services | No response |
| | | Cacatua Culture Consultants | No response |

| | | | |
|---|---|---|---|
| | | Corroboree Aboriginal Corporation | No response |
| | | D F T V Enterprises | No response |
| | | Didge Ngunawal Clan | No response |
| | | Gomeroi People (c/- NTSCORP Ltd) | No response |
| | | Gomery Cultural Consultants | No response |
| | | Gunjeewong Cultural Heritage Aboriginal Corporation | No response |
| | | Hunter Valley Aboriginal Corporation | No response |
| | | Kevin Duncan | No response |
| | | Konanggo Aboriginal Cultural Heritage Services | No response |
| | | Long Gully Cultural Services | 20/05/2025 – "thank you for the update. I look forward to hearing from you in due time." |
| | | Thomas Dahlstrom | No response |
| | | Ungooroo Aboriginal Corporation | No response |
| | | Upper Hunter Wonnarua Council Inc | No response |
| | | Wallagan Cultural Services | No response |
| | | Widescope Indigenous Group | No response |
| | | Wanaruah Nation Aboriginal Corporation | No response |
| | | Wanaruah Local Aboriginal Land Council | No response |
| | | Yarrawalk | No response |
| | | Yinarr Cultural Services | No response |
| 3/07/2025 | Provision of draft report to all RAPs for comment | A1 Indigenous Services | No response |
| | | AGA Services | No response |
| | | Aliera French Trading | No response |
| | | Amanda Hickey Cultural Services | 20/7/2025 – email stating "AHCS supports the Hunter-Central Coast Renewable Energy Zone Draft ACHA and ACHMP" |
| | | Cacatua Culture Consultants | No response |

| | | | |
|---|---|---|---|
| | | Corroboree Aboriginal Corporation | No response |
| | | D F T V Enterprises | No response |
| | | Didge Ngunawal Clan | No response |
| | | Gomeroi People (c/- NTSCORP Ltd) | No response |
| | | Gomery Cultural Consultants | No response |
| | | Gunjeewong Cultural Heritage Aboriginal Corporation | No response |
| | | Hunter Valley Aboriginal Corporation | No response |
| | | Kevin Duncan | No response |
| | | Konanggo Aboriginal Cultural Heritage Services | No response |
| | | Long Gully Cultural Services | No response |
| | | Thomas Dahlstrom | No response |
| | | Ungooroo Aboriginal Corporation | No response |
| | | Upper Hunter Wonnarua Council Inc | No response |
| | | Wallagan Cultural Services | No response |
| | | Widescope Indigenous Group | No response |
| | | Wanaruah Nation Aboriginal Corporation | 7/7/2025 – email noting "I have read the reports and agree with the recommendations on the proviso we add the below paragraph in your report. I would also like to talk to energy co representatives about including cultural Community Offsets as part of the ACHA and ACHMP as part of development consents for this NSW Government State Significant project as discussed with the First Nation REZ committee, established by Energy Co.<br>This process worked for the new Hunter Expressway which gave real community led outcomes for Aboriginal employment, Aboriginal Community led Close the gap programs, training and local Aboriginal Community led land asset projects to help build the Aboriginal |

| | | | |
|---|---|---|---|
| | | | Economy as part of this projects development consents based on our loss of culture and heritage."<br>JB advised this information would be passed to Ausgrid for their consideration and would also be included in the report.<br>18/7/2025 additional email requesting WNAC be added to the emergency contact list in the ACHMP. JB advised that only statutory entities were listed in the first instance, and that the ACHMP would be made clearer to note that all RAPs should be advised in the event of unexpected finds confirmed to be of Aboriginal origin. |
| | | Wanaruah Local Aboriginal Land Council | No response |
| | | Yarrawalk | No response |
| | | Yinarr Cultural Services | No response |
| 17/7/2025 | Provision of draft report to Robert Syron, who was inadvertently left off when draft originally sent out due to late registration. | Robert Syron | Phone call received same day from Bob Syron, noting his displeasure over the ethnohistory included in the draft report and request for updates to include information about the Guringay people. Sent multiple informative sources through via email. JB responded with thanks and noted the information will be incorporated into the report as appropriate. |

# Appendix B: Step 1 Letters and Responses

| | |
|---|---|
| **From:** | rebecca@apexarchaeology.com.au |
| **To:** | "undisclosed recipients" |
| **Bcc:** | aboriginalowners@oralra.nsw.gov.au; admin.hunter@lls.nsw.gov.au; admin@mindaribbalalc.org; ceo@wanaruahlandcouncil.com.au; ceo@wanaruahlandscouncil.com.au; council@cessnock.nsw.gov.au; council@muswellbrook.nsw.gov.au; council@singleton.nsw.gov.au; heritagemailbox@environment.nsw.gov.au; information@ntscorp.com.au |
| **Subject:** | Hunter Region, NSW - Commencement of Aboriginal Cultural Heritage Assessment |
| **Date:** | Wednesday, 6 September 2023 5:49:24 PM |
| **Attachments:** | image001.png<br>23115 Hunter REZ Stage 1 Consultation letter - ACHA.pdf |

Good afternoon,

Please find attached a letter requesting contact details for any Aboriginal individuals or organisations who may be interested in being consulted for a project within the Hunter region, NSW. The project covers areas within the Muswellbrook, Singleton and Cessnock Local Government Areas.

Could you please provide a response by Wednesday 20th September 2023

Warm regards,

APEX ARCHAEOLOGY

Rebecca Bryant
ARCHAEOLOGIST
0405 236 821
REBECCA@APEXARCHAEOLOGY.COM.AU
WWW.APEXARCHAEOLOGY.COM.AU

APEX ARCHAEOLOGY

PO Box 236
Nowra, NSW 2541
heritage@apexarchaeology.com.au
www.apexarchaeology.com.au
ABN 56 625 618 993

6 September 2023

**Establishing a Register of Interest for an Aboriginal Cultural Heritage Assessment – Proposed Renewable Energy Zone (REZ) within the Hunter Valley, NSW.**

This letter is sent in accordance with Section 4.1.2 of the *Aboriginal cultural heritage consultation requirements for proponents 2010* (ACHCRs) in order to initiate Stage 1 of the Aboriginal consultation process in relation to the above project.

Ausgrid has engaged Apex Archaeology to assist in preparing an Aboriginal Cultural Heritage Assessment (ACHA) for a proposed infrastructure project to modernise the electricity system within the Hunter Valley, NSW (Figure 1). The project will be undertaken in two stages and includes areas within Cessnock, Singleton and Muswellbrook Local Government Areas (LGAs).

The first stage of the proposed works will encompass a 132kV transmission line, pole replacements, access tracks, and upgrades of sub-transmission stations covering a distance of approximately 60 km from Singleton to Kurri. Two fibre-optic underground cables from Singleton to Muswellbrook will also be constructed within the existing overhead powerline easements.

The second stage of the proposed works will include the construction of a new Eastern Hub 132kV switching station comprising approximately 8 ha. This will connect with the Singleton to Kurri transmission line and would also require pole replacements, access tracks and vegetation clearance. Additional rearrangement of the existing Upper Hunter transmission network will also be necessary to connect between the new Eastern Hub and existing facilities in Muswellbrook. This will also require pole replacements, access track works and vegetation clearing, as well as an upgrade to Muswellbrook sub-transmission substation with an extension to the existing yard.

A large number of registered Aboriginal sites have been identified as being within the study area and surrounds. These require investigation in order to understand and manage potential impacts on Aboriginal cultural values and to determine the requirement to apply for an Aboriginal Heritage Impact Permit (AHIP) for the project.

A process of Aboriginal community consultation in accordance with the ACHCRs is being initiated by Apex Archaeology on behalf of the proponent. Apex Archaeology will be undertaking a full archaeological assessment under the *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales.*

In accordance with Section 4.1.2 of the ACHCRs, I am writing to request any information you may have regarding Aboriginal stakeholders who may have cultural knowledge relevant to determining the significance of Aboriginal objects that may be located within the study area. Any identified Aboriginal individuals or organisations will be invited to register an interest in the project and participate in the consultation process.

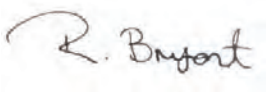
Ausgrid's project manager is Richard Dunnicliff who can be contacted via email at rdunnicliff@ausgrid.com.au

Information regarding Aboriginal stakeholders can be sent to PO Box 236, Nowra, NSW 2541, or rebecca@apexarchaeology.com.au. I am available to assist with any inquiries about the process and can also be contacted by telephone on 0405 236 821.

We would appreciate a response within 14 days of the date of this letter wherever possible.

Kind regards,

Rebecca Bryant



Archaeologist
Apex Archaeology
E: rebecca@apexarchaeology.com.au
M: 0405 236 821

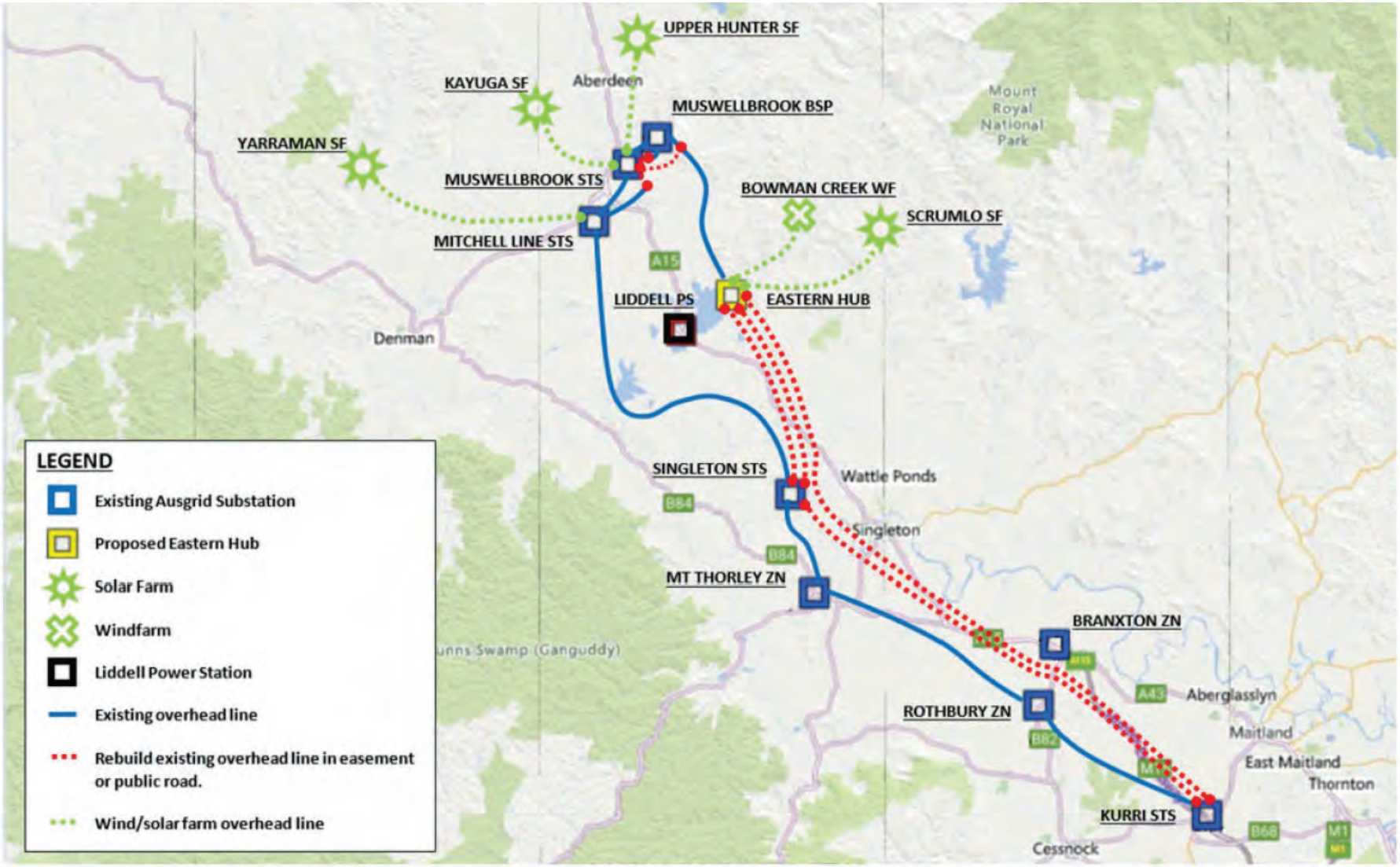



Figure 1: Indicative layout of proposed works within the Hunter Region (Source: Ausgrid)

**From:** Jessica Elliott
**To:** "rebecca@apexarchaeology.com.au"
**Subject:** RE: Hunter Region, NSW - Commencement of Aboriginal Cultural Heritage Assessment
**Date:** Tuesday, 12 September 2023 3:24:58 PM
**Attachments:** image001.png
image004.png
image005.png
image006.png

---

Hi Rebecca,

Thank you for your email requesting information regarding Aboriginal stakeholders who may be able to assist you in completing your Aboriginal Cultural Heritage Assessment.

Council has a Community Directory that provides information about local services. I would suggest that this would be a helpful source of information regarding local Aboriginal and Torres Strait Islander services and organisations.

Should you have any further questions, please don't hesitate to contact me.

Jess

**Jessica Elliott** Community Development Officer
62-78 Vincent St | PO Box 152 | Cessnock NSW 2325
**p** 02 4993 4159 | **m** 0400 154 091
www.cessnock.nsw.gov.au

**Integrity, Respect, Teamwork, Accountability and Excellence**

***I acknowledge Aboriginal people as the traditional custodians of the land on which Cessnock City Council offices and operations are located, and pay my respects to Elders past, present and future.***

---

**From:** rebecca@apexarchaeology.com.au <rebecca@apexarchaeology.com.au>
**Sent:** Wednesday, 6 September 2023 5:49 PM
**To:** 'undisclosed recipients' <jenni@apexarchaeology.com.au>
**Subject:** Hunter Region, NSW - Commencement of Aboriginal Cultural Heritage Assessment

Good afternoon,

Please find attached a letter requesting contact details for any Aboriginal individuals or organisations who may be interested in being consulted for a project within the Hunter region, NSW. The project covers areas within the Muswellbrook, Singleton and Cessnock Local Government Areas.

Could you please provide a response by **Wednesday 20th September 2023**

Warm regards,

APEX ARCHAEOLOGY

Rebecca Bryant
ARCHAEOLOGIST

0405 236 821
REBECCA@APEXARCHAEOLOGY.COM.AU
WWW.APEXARCHAEOLOGY.COM.AU

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**From:** rebecca@apexarchaeology.com.au
**To:** admin@mindaribbalalc.org
**Subject:** Contact detail on NSW Heritage "Aboriginal Stakeholder List"
**Date:** Tuesday, 19 September 2023 10:11:21 AM
**Attachments:** image001.png

---

Hi Bobbie,

As mentioned, the current Heritage NSW Aboriginal Stakeholder List has an incorrect phone number for the Mindaribba Local Aboriginal Land Council and the contact email address is for the CEO only.

You can contact Heritage NSW on heritagemailbox@environment.nsw.gov.au and advise that you would like to update your contact details. They're pretty good at responding in a few days.

I will forward the invitation to register for our project in the Hunter region on Thursday to your admin address.

I hope you have a lovely day.

Warm regards,

Rebecca

APEX ARCHAEOLOGY

Rebecca Bryant
ARCHAEOLOGIST

0405 236 821
REBECCA@APEXARCHAEOLOGY.COM.AU
WWW.APEXARCHAEOLOGY.COM.AU

**From:** rebecca@apexarchaeology.com.au
**To:** "Rosslyn Thomson"
**Subject:** RE: Hunter Region, NSW - Commencement of Aboriginal Cultural Heritage Assessment
**Date:** Wednesday, 13 September 2023 3:23:21 PM
**Attachments:** image002.png
image003.png
image004.png

---

Hi Roz,

Thank you very much for your reply.

I have already contacted the Wanaruah Local Aboriginal Land Council. They have registered for the project and advised they have also contacted the Hunter Valley Aboriginal Corporation as well.

I hope you have an enjoyable rest of the day.

Warm regards,

Rebecca

---

**From:** Rosslyn Thomson <Rosslyn.Thomson@muswellbrook.nsw.gov.au>
**Sent:** Wednesday, September 13, 2023 3:11 PM
**To:** 'rebecca@apexarchaeology.com.au' <rebecca@apexarchaeology.com.au>
**Cc:** Kim Manwarring <Kim.Manwarring@muswellbrook.nsw.gov.au>; Theresa Folpp <Theresa.Folpp@muswellbrook.nsw.gov.au>
**Subject:** Hunter Region, NSW - Commencement of Aboriginal Cultural Heritage Assessment

Hi Rebecca,

Thank you for contacting us.

If you contact the Wanaruah Local Aboriginal Land Council and Hunter Valley Aboriginal Corporation, they will be able to assist you with a Registered Aboriginal Parties (RAP) list, regarding individuals or organisations who may be interested in your project.

**Wanaruah Local Aboriginal Land Council**
**CEO:** De-anne Douglas
**Email:** ceo@wanaruahlandcouncil.com.au

**Hunter Valley Aboriginal Corporation**
**Manager:** Kylie Pascoe
**Email:** manager@hvabcorp.org.au

Kind Regards,


**Roz Thomson**

**Muswellbrook Shire Council | Rosslyn Thomson | Community Partnership Officer**
**T:** (02) 6549 3792 **| M:** 0490 042 821 **| E:** rosslyn.thomson@muswellbrook.nsw.gov.au **| W:** www.muswellbrook.nsw.gov.au

**Note** **The Muswellbrook Council Administration Centre has moved to Campbell's Corner 60-82 Bridge Street Muswellbrook NSW 2333**

***Please note my workdays are: Monday - Wednesday | 8:30am – 5:00pm**


**As a Gomeroi women, I would like to respectfully Acknowledge the local Aboriginal People who are the Traditional Keepers of this land and I pay my respects to Elders past, present and emerging. I would like to extend this Acknowledgement to all Aboriginal and Torres Strait Islander people and Nations.**

*Muswellbrook Shire Council respectfully acknowledges the local Aboriginal people who are the Traditional Owners and custodians of the land*

Explore: www.workingwithindigenousaustralians.info

Grant Finder: https://muswellbrook.grantguru.com.au/

---

**From:** rebecca@apexarchaeology.com.au <rebecca@apexarchaeology.com.au>
**Sent:** Wednesday, September 6, 2023 5:49 PM

**To:** 'undisclosed recipients' <jenni@apexarchaeology.com.au>
**Subject:** Hunter Region, NSW - Commencement of Aboriginal Cultural Heritage Assessment

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Good afternoon,

Please find attached a letter requesting contact details for any Aboriginal individuals or organisations who may be interested in being consulted for a project within the Hunter region, NSW. The project covers areas within the Muswellbrook, Singleton and Cessnock Local Government Areas.

Could you please provide a response by Wednesday 20th September 2023

Warm regards,

APEX ARCHAEOLOGY

Rebecca Bryant
ARCHAEOLOGIST
0405 236 821
REBECCA@APEXARCHAEOLOGY.COM.AU
WWW.APEXARCHAEOLOGY.COM.AU

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Muswellbrook Shire Council ABN 86 864 180 944

| | |
|---|---|
| **From:** | rebecca@apexarchaeology.com.au |
| **To:** | "NTSCORP Notifications"; wscott@ntscorp.com.au |
| **Subject:** | RE: Hunter Region, NSW - Commencement of Aboriginal Cultural Heritage Assessment |
| **Date:** | Friday, 15 September 2023 3:34:04 PM |
| **Attachments:** | image003.png |

Dear Olivia,

Thank you for your reply.

I have registered the Gomeroi People for this project, and I will forward all information regarding the project to the advised email addresses.

Warm regards,

Rebecca

---

**From:** NTSCORP Notifications <notifications@ntscorp.com.au>
**Sent:** Friday, September 15, 2023 12:37 PM
**To:** rebecca@apexarchaeology.com.au
**Cc:** jenni@apexarchaeology.com.au; William Scott <wscott@ntscorp.com.au>
**Subject:** RE: Hunter Region, NSW - Commencement of Aboriginal Cultural Heritage Assessment

Dear Rebecca,

The Gomeroi Applicant acting on behalf of the Gomeroi People native title claim group are cultural knowledge holders for the project area and as such the Gomeroi Applicant wishes to register as a Registered Aboriginal Party for this project and to be notified and involved throughout the consultation and assessment process.

The Relevant contact details are:

Gomeroi Applicant
c/- NTSCORP Limited
Level 1, 44-70 Rosehill Street
Redfern NSW 2016
Email: notifications@ntscorp.com.au and wscott@ntscorp.com.au
Phone: (02) 9310 3188

Kind regards,

**Olivia Charles** | Law Graduate

ntscorp

**NTSCORP proudly acknowledge that our office is situated on the country of the Gadigal People. We also acknowledge and pay our respect to their Elders past and present.**

**t** 61 2 9310 3188 **f** 02 9310 4177
**e:** ocharles@ntscorp.com.au | **w** www.ntscorp.com.au
Level 1, 44-70 Rosehill Street, Redfern, NSW 2016 Australia

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**From:** rebecca@apexarchaeology.com.au <rebecca@apexarchaeology.com.au>
**Sent:** Wednesday, September 6, 2023 5:49 PM
**To:** 'undisclosed recipients' <jenni@apexarchaeology.com.au>
**Subject:** Hunter Region, NSW - Commencement of Aboriginal Cultural Heritage Assessment

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good afternoon,

Please find attached a letter requesting contact details for any Aboriginal individuals or organisations who may be interested in being consulted for a project within the Hunter region, NSW. The project covers areas within the Muswellbrook, Singleton and Cessnock Local Government Areas.

Could you please provide a response by Wednesday 20th September 2023

Warm regards,

APEX ARCHAEOLOGY

Rebecca Bryant
ARCHAEOLOGIST
0405 236 821
REBECCA@APEXARCHAEOLOGY.COM.AU
WWW.APEXARCHAEOLOGY.COM.AU

**From:** NTSCORP Notifications
**To:** rebecca@apexarchaeology.com.au
**Subject:** FW: Hunter Valley region, NSW - Invitation to register
**Date:** Wednesday, 27 September 2023 10:12:35 AM
**Attachments:** image001.png
image002.png
23115 Hunter REZ - Invitation to register interest.pdf

---

Dear Rebecca,

The Gomeroi Applicant acting on behalf of the Gomeroi People native title claim group are cultural knowledge holders for the project area and as such the Gomeroi Applicant wishes to register as a Registered Aboriginal Party for this project and to be notified and involved throughout the consultation and assessment process.

The Relevant contact details are:

Gomeroi Applicant
c/- NTSCORP Limited
Level 1, 44-70 Rosehill Street
Redfern NSW 2016
Email: notifications@ntscorp.com.au and wscott@ntscorp.com.au
Phone: (02) 9310 3188

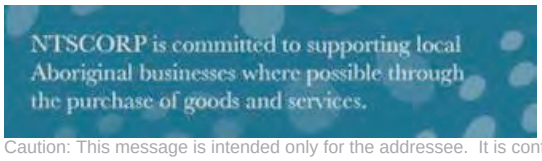
Kind regards,

**Zoe Robertson** | Paralegal

ntscorp

**NTSCORP proudly acknowledge that our office is situated on the country of the Gadigal People of the Dharug Nation.**
**We also acknowledge and pay our respect to their Elders past and present.**

**f** 02 9310 4177 | **t** 61 2 9310 3188 |
**e** zrobertson@ntscorp.com.au | **w** www.ntscorp.com.au
Level 1, 44-70 Rosehill Street, Redfern, NSW 2016 Australia

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---

**From:** rebecca@apexarchaeology.com.au <rebecca@apexarchaeology.com.au>
**Sent:** Thursday, September 21, 2023 2:46:25 PM
**To:** 'undisclosed receipients' <jenni@apexarchaeology.com.au>
**Subject:** RE: Hunter Valley region, NSW - Invitation to register

You don't often get email from rebecca@apexarchaeology.com.au. Learn why this is important

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments

unless you recognize the sender and know the content is safe.

Good afternoon,

Your details have been provided by Heritage NSW as an Aboriginal person or organisation who might like to take part in consultation for a project within the Hunter Valley region, NSW.

Please find attached a letter with more information and inviting you to register your interest by the close of business, Thursday 5th October 2023.

Please get in touch if you have any questions. I look forward to hearing from you.

Kind regards,

f

APEX ARCHAEOLOGY

Rebecca Bryant
ARCHAEOLOGIST

0405 236 821
REBECCA@APEXARCHAEOLOGY.COM.AU
WWW.APEXARCHAEOLOGY.COM.AU

OFFICE OF THE REGISTRAR
ABORIGINAL LAND RIGHTS ACT 1983 (NSW)

15 September 2023

By email: rebecca@apexarchaeology.com.au

Rebecca Bryant
Apex Archaeology
PO Box 236
NOWRA NSW 2541

Dear Rebecca

**Aboriginal Cultural Heritage Assessment – Proposed Renewable Energy Zone within the Hunter Valley (includes areas within Cessnock, Singleton and Muswellbrook LGAs) NSW: request for list of potential Aboriginal stakeholders**

We refer to your letter and email to this Office, 6 September 2023, requesting contact information for Aboriginal organisations, stakeholders and/or people who may have cultural knowledge relevant to the proposed Renewable Energy Zone within the Hunter Valley (includes areas within Cessnock, Singleton and Muswellbrook LGAs) NSW, as part of an Aboriginal Cultural Heritage Assessment (ACHA).

Under Section 170 of the *Aboriginal Land Rights Act* 1983 (NSW), the Office of the Registrar is required to maintain the Register of Aboriginal Owners (RAO) for New South Wales. The works you are proposing, and location are in proximity to an area for which there are Registered Aboriginal Owners: Worimi Conservation Lands.

We suggest you contact the Joint Management Coordinator for the Worimi Conservation Lands Nadine Russell on 02 4984 8208 or Nadine.russell@environment.nsw.gov.au to ascertain whether the Board of Management are interested in the project.

While it is somewhat difficult to tell from the map of the study area you have provided, the proposed development and study area appears to fall within or adjacent to the boundaries of Wanaruah Local Aboriginal Land Council and Mindaribba Local Aboriginal Land Council (LALC).

We suggest you contact these LALCs (contact details provided below) as they may wish to participate or contribute.

Yours sincerely

Karen Carter

Karen Carter
Project Officer
Office of the Registrar, Aboriginal Land Rights Act 1983

Wanaruah LALC
PO Box 127
MUSWELLBROOK NSW 2333
02 6543 1288

Mindaribba LALC
PO Box 401
EAST MAITLAND NSW 2323
02 4015 7000

**From:** Michelle Reichert
**To:** rebecca@apexarchaeology.com.au
**Subject:** RE: Hunter Region, NSW - Commencement of Aboriginal Cultural Heritage Assessment
**Date:** Friday, 8 September 2023 8:10:38 AM
**Attachments:** image014.png
image001.png
image015.png
image016.png
image017.png
image018.png
image019.png

---

Hi Rebecca,

Please see below the names and contact details for the Aboriginal groups known to Council that should be consulted:

Ungooroo Aboriginal Corporation - 157 – 159 John Street, Singleton NSW 2330.
Wonnarua Nation Aboriginal Corporation - 254 John St, Singleton NSW 2330
Wanaruah Local Aboriginal Land Council - 19 Maitland St, Muswellbrook NSW 2333

Kind regards,

SINGLETON COUNCIL

**MICHELLE REICHERT**
Development Planner

T 02 6578 7286
E mreichert@singleton.nsw.gov.au
W singleton.nsw.gov.au

Singleton Council acknowledges the Wanaruah, Wonnarua people and their custodianship of the land in the Singleton Local Government Area. We also acknowledge all other Aboriginal and Torres Strait Islanders who live within the Singleton Local Government Area and pay our respect to Elders past, present and future.

---

**From:** rebecca@apexarchaeology.com.au <rebecca@apexarchaeology.com.au>
**Sent:** Wednesday, September 6, 2023 5:49 PM
**To:** 'undisclosed recipients' <jenni@apexarchaeology.com.au>
**Subject:** Hunter Region, NSW - Commencement of Aboriginal Cultural Heritage Assessment

**CAUTION:** This email originated from outside the organisation. Do not click links or open attachments unless you recognise the sender and know the content is safe.

Good afternoon,

Please find attached a letter requesting contact details for any Aboriginal individuals or organisations who may be interested in being consulted for a project within the Hunter region, NSW. The project covers areas within the Muswellbrook, Singleton and Cessnock Local Government Areas.

Could you please provide a response by **Wednesday 20th September 2023**

Warm regards,

APEX ARCHAEOLOGY

Rebecca Bryant
ARCHAEOLOGIST

0405 236 821
REBECCA@APEXARCHAEOLOGY.COM.AU
WWW.APEXARCHAEOLOGY.COM.AU

**From:** CEO Wanaruah
**To:** rebecca@apexarchaeology.com.au
**Subject:** RE: Hunter Region, NSW - Commencement of Aboriginal Cultural Heritage Assessment
**Date:** Friday, 8 September 2023 10:19:29 AM
**Attachments:** image001.png

Good Morning

Wanaruah LALC would like to be included in the consultation.

I have forwarded to the CEO of Hunter Valley Aboriginal Corporation so they can register also.

My direct contact number is 0419 684 519.

Thanks

De-anne

---

**From:** rebecca@apexarchaeology.com.au <rebecca@apexarchaeology.com.au>
**Sent:** Wednesday, 6 September 2023 5:49 PM
**To:** 'undisclosed recipients' <jenni@apexarchaeology.com.au>
**Subject:** Hunter Region, NSW - Commencement of Aboriginal Cultural Heritage Assessment

Good afternoon,

Please find attached a letter requesting contact details for any Aboriginal individuals or organisations who may be interested in being consulted for a project within the Hunter region, NSW. The project covers areas within the Muswellbrook, Singleton and Cessnock Local Government Areas.

Could you please provide a response by Wednesday 20th September 2023

Warm regards,

APEX ARCHAEOLOGY

Rebecca Bryant
ARCHAEOLOGIST
0405 236 821
REBECCA@APEXARCHAEOLOGY.COM.AU
WWW.APEXARCHAEOLOGY.COM.AU

# Native TitleVision Web Map

06/06/2025, 13:39:18

1:577,791

0 4.25 8.5 17 mi

0 5 10 20 km

Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, Esri, CGIAR

## Determinations

In effect - Finalised

Applications (Schedule)

Native TitleVision

Esri, TomTom, Garmin, METI/NASA, USGS | Esri, CGIAR | © State of New South Wales | National Native Title Tribunal, © Commonwealth of Australia |

# Appendix C: Step 2 Letters and Responses

| | |
|---|---|
| **From:** | rebecca@apexarchaeology.com.au |
| **To:** | "undisclosed receipients" |
| **Bcc:** | admin@mindaribbalalc.org; admin@ungooroo.com.au; aga.services@hotmail.com; alierafrenchtrading@outlook.com; bobsam1@bigpond.net.au; cacatua4service@tpg.com.au; cahoy7@myune.edu.au; cal.slater61@gmail.com; cazadirect@live.com; ceo@mindaribbalalc.org; christinepaul737@gmail.com; colinahoy57@gmail.com; contact@acra.org.au; corroboreecorp@bigpond.com; darkinoong@gmail.com; deckavale@hotmail.com; deshickey@bigpond.com; didgengunawalclan@yahoo.com.au; dontminemeay@gmail.com; ethan3trewlynn@gmail.com; gamila_roi@yahoo.com.au; gidawaa.walang@hotmail.com; gomeroi.namoi@outlook.com; Gunjeewongculturalheritage21@hotmail.com; guthersic@gmail.com; h973809@bigpond.net.au; helens27@outlook.com; hto.paulette@gmail.com; indiglearning@gmail.com; kaumapondee@live.com.au; kerrie@awabakal.com.au; kevin.duncan@bigpond.com; konanggo_consultancy@hotmail.com; l.perry@optusnet.com.au; leannekirkman1964@gmail.com; les.atkinson@hotmail.com; lhws.lea@gmail.com; lowerhunterai@gmail.com; manager@hvabcorp.org.au; m-desley@hotmail.com; mholt@ntscorp.com.au; microlith99@gmail.com; mischelle.morris@outlook.com; murrabidgeemullangari@yahoo.com.au; nadine.russell@environment.nsw.gov.au; normarch60@gmail.com; peterleven@y7mail.com; philipkhan.acn@live.com.au; rara02@bigpond.com; rod.hickey@hotmail.com; scott@tocomwall.com.au; scott@yarrawalk.com.au; sharonhodgetts@hotmail.com; tamatthews10@hotmail.com; tracey@guringai.com.au; tracey@murrung-pa.com.au; trenthodgetts@gmail.com; wallangan@outlook.com; warragil_C.S@hotmail.com; warren@yarnteen.com.au; widescope.group@live.com; wingarrawilay@yahoo.com; wonn1sites@gmail.com; wurrumay31@outlook.com; yinarculturalservices@bigpond.com |
| **Subject:** | RE: Hunter Valley region, NSW - Invitation to register |
| **Date:** | Thursday, 21 September 2023 2:46:51 PM |
| **Attachments:** | image001.png<br>23115 Hunter REZ - Invitation to register interest.pdf |

---

Good afternoon,

Your details have been provided by Heritage NSW as an Aboriginal person or organisation who might like to take part in consultation for a project within the Hunter Valley region, NSW.

Please find attached a letter with more information and inviting you to register your interest by the close of business, Thursday 5th October 2023.

Please get in touch if you have any questions. I look forward to hearing from you.

Kind regards,

f

APEX ARCHAEOLOGY

Rebecca Bryant
ARCHAEOLOGIST
0405 236 821
REBECCA@APEXARCHAEOLOGY.COM.AU
WWW.APEXARCHAEOLOGY.COM.AU

APEX ARCHAEOLOGY
PO Box 236
Nowra, NSW 2541
heritage@apexarchaeology.com.au
www.apexarchaeology.com.au
ABN 56 625 618 993

Wonnarua Elders Council
Richard Edwards
P.O. Box 844
Cessnock NSW 2325

APEX ARCHAEOLOGY
PO Box 236
Nowra, NSW 2541
heritage@apexarchaeology.com.au
www.apexarchaeology.com.au
ABN 56 625 618 993

Upper Hunter
Wonnarua Cuncil Inc.
Rhonda and Geasina Perry
P.O. Box 3095
Singleton NSW 2330

APEX ARCHAEOLOGY
PO Box 236
Nowra, NSW 2541
heritage@apexarchaeology.com.au
www.apexarchaeology.com.au
ABN 56 625 618 993

Wonnarua Culture Heritage
Gordon Griffiths
19 O'Donnell Grescent
Metford NSW 2323

APEX ARCHAEOLOGY
PO Box 236
Nowra, NSW 2541
heritage@apexarchaeology.com.au
www.apexarchaeology.com.au
ABN 56 625 618 993

Lower Wonnaruah
Tribal Consultancy Pty Ltd
156 The Inlet Rd
Bulga NSW 2330

APEX ARCHAEOLOGY
PO Box 236
Nowra, NSW 2541
heritage@apexarchaeology.com.au
www.apexarchaeology.com.au
ABN 56 625 618 993

Carol Ridgeway Bissett
33 Ullora Road
Nelson Bay
NSW 2315

APEX ARCHAEOLOGY
PO Box 236
Nowra, NSW 2541
heritage@apexarchaeology.com.au
www.apexarchaeology.com.au
ABN 56 625 618 993

Crimson-Rosie
Jeffery Matthews
6 Eucalypt Ave.
Muswellbrook
NSW 2333

APEX ARCHAEOLOGY

PO Box 236
Nowra, NSW 2541
heritage@apexarchaeology.com.au
www.apexarchaeology.com.au
ABN 56 625 618 993

21 September 2023

**Establishing a Register of Interest for an Aboriginal Cultural Heritage Assessment – Proposed Renewable Energy Zone (REZ) within the Hunter Valley, NSW.**

This letter is sent in accordance with Section 4.1.2 of the *Aboriginal cultural heritage consultation requirements for proponents 2010* (ACHCRs) in order to initiate Stage 1 of the Aboriginal consultation process in relation to the above project.

Ausgrid has engaged Apex Archaeology to assist in preparing an Aboriginal Cultural Heritage Assessment (ACHA) for a proposed infrastructure project to modernise the electricity system within the Hunter Valley, NSW (Figure 1). The project will be undertaken in two stages and includes areas within Cessnock, Singleton and Muswellbrook Local Government Areas (LGAs).

The first stage of the proposed works will encompass a 132kV transmission line, pole replacements, access tracks, and upgrades of sub-transmission stations covering a distance of approximately 60 km from Singleton to Kurri. Two fibre-optic underground cables from Singleton to Muswellbrook will also be constructed within the existing overhead powerline easements.

The second stage of the proposed works will include the construction of a new Eastern Hub 132kV switching station comprising approximately 8 ha. This will connect with the Singleton to Kurri transmission line. Additional rearrangement of the existing Upper Hunter transmission network will also be necessary to connect between the new Eastern Hub and existing facilities in Muswellbrook. All these works will require pole replacements, access track works and vegetation clearing, as well as an upgrade to Muswellbrook sub-transmission substation with an extension to the existing yard.

A large number of registered Aboriginal sites have been identified as being within the study area and surrounds. These require investigation in order to understand and manage potential impacts on Aboriginal cultural values and to determine the requirement to apply for an Aboriginal Heritage Impact Permit (AHIP) for the project.

The purpose of consultation with Aboriginal people for this project is to assist the proponent in identifying Aboriginal people with cultural knowledge relevant to determining the significance of Aboriginal objects at this location.

The proponent invites Aboriginal people who hold cultural knowledge relevant to determining the cultural significance of Aboriginal objects and places within the study area to register an interest in the process of Aboriginal community consultation.

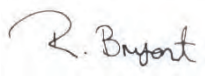
Please note that details of the Aboriginal people or organisations who register an interest in consultation will be forwarded to Heritage NSW, the Wanaruah Local Aboriginal Land Council, and Mindaribba Local Aboriginal Land Council. Please advise at the time of registration if you do not wish for your details to be forwarded to these entities.

The project manager for Ausgrid is Richard Dunnicliff who can be contacted via email at rdunnicliff@ausgrid.com.au.

Aboriginal stakeholders can register their interest by PO Box 236, Nowra, NSW 2541; via phone on 0405 236 821; or via rebecca@apexarchaeology.com.au

Registrations of interest will be accepted until CoB Thursday 5th of October 2023.

Kind regards,



Archaeologist
Apex Archaeology
E: rebecca@apexarchaeology.com.au
M: 0405 236 821

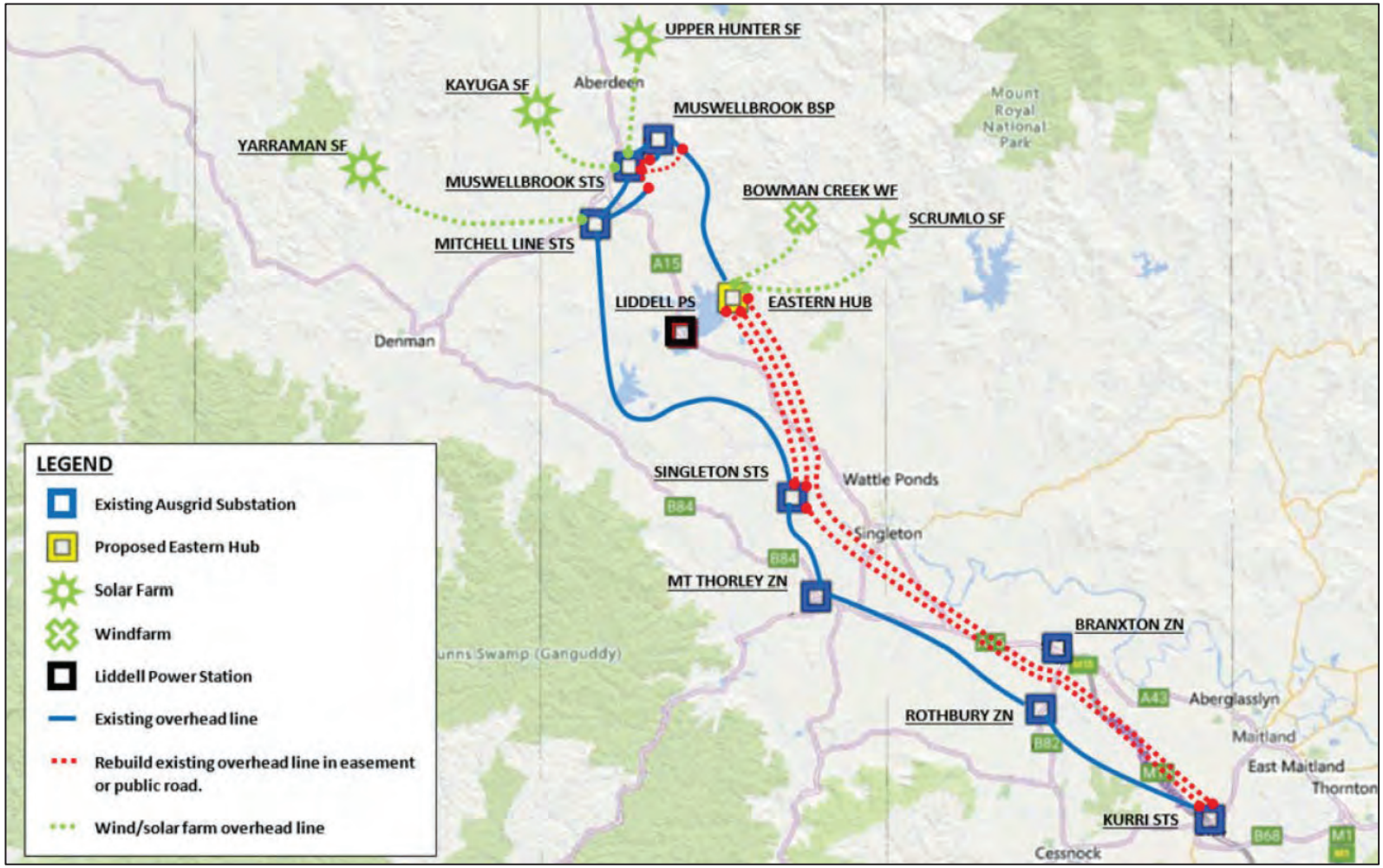



Figure 1: Indicative layout of proposed works within the Hunter Region (Source: Ausgrid 2023)

| | |
|---|---|
| **From:** | Carolyn .H |
| **To:** | rebecca@apexarchaeology.com.au |
| **Subject:** | Re: Hunter Valley region, NSW - Invitation to register |
| **Date:** | Monday, 2 October 2023 7:25:55 PM |
| **Attachments:** | image001.png<br>Outlook-e45m0gvk.png |

**Contact:** **Carolyn Hickey**
**Mobile:** **0411650057**
**Email:** **Cazadirect@live.com**
**Address:** **10 Marie Pitt Place, Glenmore Park, NSW 2745**
**ABN:** **: 20 616 970 327**

Hi Rebecca,
Thank you for your email, I would like to register in being involved in all levels of consultation for this project.
Including, Meetings, Reports, Sharing Cultural Information, and available Field Work.

About the founder Carolyn Hickey
I am a traditional owner with over 25 years experience in helping preserve Aboriginal cultural heritage on projects.
I hold cultural knowledge relevant to determining the cultural significance of Aboriginal objects and values that exist in the project area.
**I have attached A1 Indigenous Services Insurances**

## *A1 INDIGENOUS SERVICES PTY LTD Represents over 100 Indigenous Locals*

**When Selecting Groups for Engagement;**
Please consider that **A1 INDIGENOUS SERVICES** is a member of the **NSW INDIGENOUS CHAMBER OF COMMERCE.**
We carry the NSWICC Assured logo showing that **A1 Indigenous Services** has met National Policy requirements as upheld by the First Australians Chamber of Commerce and Industry (FACCI) for being identified as a **100% First Nations Owned Indigenous Business** That has demonstrate compliance with Government and Industry Regulators.

**Kind Regards**
**Carolyn Hickey**

**A1 INDIGENOUS SERVICES is now a member of the NSW INDIGENOUS CHAMBER OF COMMERCE**

A business or enterprise carrying the NSWICC Assured logo has met National Policy

requirements as upheld by the First Australians Chamber of Commerce and Industry (FACCI) for being identified as a First Nations Business Owner or Entrepreneur and the business must demonstrate compliance with Government and Industry Regulators. **(Certificate attached)** A certificate confirms that the Enterprise listed above has met all requirements of the NSWICC's Assured Program , operating as a100% Aboriginal Owned, Operated and Controlled Business. The NSW Indigenous Chamber of Commerce (NSWICC) is the Peak body for Aboriginal Business in New South Wales and a member of the First Australians Chamber of Commerce and Industry (FACCI)

**A1 Indigenous Services is 100%, Indigenous Owned Australian Company**
**which offers a range of services to the construction industry.**
**It is our mission to commit to an innovative approach to a better future for Indigenous employment and community.**
**While improving ways to close the gap in Aboriginal participation in the construction Industry.**
**Building strength in aboriginal communities and our Indigenous labour force.**

**From:** rebecca@apexarchaeology.com.au <rebecca@apexarchaeology.com.au>
**Sent:** Thursday, 21 September 2023 2:46 PM
**To:** 'undisclosed receipients' <jenni@apexarchaeology.com.au>
**Subject:** RE: Hunter Valley region, NSW - Invitation to register

Good afternoon,

Your details have been provided by Heritage NSW as an Aboriginal person or organisation who might like to take part in consultation for a project within the Hunter Valley region, NSW.

Please find attached a letter with more information and inviting you to register your interest by the close of business, Thursday 5th October 2023.

Please get in touch if you have any questions. I look forward to hearing from you.

Kind regards,

f

APEX ARCHAEOLOGY

Rebecca Bryant
ARCHAEOLOGIST

0405 236 821
REBECCA@APEXARCHAEOLOGY.COM.AU
WWW.APEXARCHAEOLOGY.COM.AU

**From:** cacatua4service@tpg.com.au
**To:** rebecca@apexarchaeology.com.au
**Subject:** AGA EOI for Hunter Valley Renewable Energy Zone
**Date:** Tuesday, 26 September 2023 11:43:57 AM

---

AGA Service would like to express our interest in being registered for the Aboriginal Cultural Heritage Assessment for Hunter Valley Renewable Energy Zone

We are expressing an interest as this area falls within  our traditional country boundaries.

AGA Services is an Aboriginal owned partnership business that aims to assist proponents in undertaking cultural heritage work according to all processes and approved conditions, while ensuring compliance to work specific practices.

Our Organisation is fully insured and registered with relevant Departments.  We have undertaken work on all types of sites. Please do not hesitate to contact us if you require more information.

Yours truly

*A Sampson*

----- Original Message -----
**From:**
rebecca@apexarchaeology.com.au

**To:**
"undisclosed receipients" <jenni@apexarchaeology.com.au>
**Cc:**

**Sent:**
Thu, 21 Sep 2023 14:46:25 +1000
**Subject:**
RE: Hunter Valley region, NSW - Invitation to register

Good afternoon,

Your details have been provided by Heritage NSW as an Aboriginal person or organisation who might like to take part in consultation for a project within the Hunter Valley region, NSW.

Please find attached a letter with more information and inviting you to register your interest by the close of business, Thursday 5th October 2023.

Please get in touch if you have any questions. I look forward to hearing from you.

**From:** Aliera French
**To:** rebecca@apexarchaeology.com.au
**Subject:** Re: Hunter Valley region, NSW - Invitation to register
**Date:** Friday, 22 September 2023 2:27:07 PM
**Attachments:** image001.png

---

Hi Rebecca,

Aliera French Trading would like to be added to the list of RAPS wishing to participate in consultation and fieldworks associated with the Ausgrid Proposed Renewable Energy Zone Project.

Please feel free to contact me should you wish to discuss this further.

Regards,

Aliera French
Owner/Manager
Aliera French Trading
0404839973

---

**From:** rebecca@apexarchaeology.com.au <rebecca@apexarchaeology.com.au>
**Sent:** Thursday, 21 September 2023 2:46 PM
**To:** 'undisclosed receipients' <jenni@apexarchaeology.com.au>
**Subject:** RE: Hunter Valley region, NSW - Invitation to register

Good afternoon,

Your details have been provided by Heritage NSW as an Aboriginal person or organisation who might like to take part in consultation for a project within the Hunter Valley region, NSW.

Please find attached a letter with more information and inviting you to register your interest by the close of business, Thursday 5th October 2023.

Please get in touch if you have any questions. I look forward to hearing from you.

Kind regards,

f

APEX
ARCHAEOLOGY

Rebecca Bryant
ARCHAEOLOGIST

0405 236 821
REBECCA@APEXARCHAEOLOGY.COM.AU
WWW.APEXARCHAEOLOGY.COM.AU

| | |
|---|---|
| **From:** | Amanda De Zwart |
| **To:** | rebecca@apexarchaeology.com.au |
| **Subject:** | Hunter Valley region, NSW - Invitation to register.. AHCS |
| **Date:** | Tuesday, 3 October 2023 8:09:40 AM |
| **Attachments:** | insurance 2024.pdf |

---

Hi Rebecca

AHCS would like to Formally register a interest in this project AHCS Holds strong cultural knowledge to the land and holds Cultural knowledge to determine Aboriginal heritage and artefacts.

Attached is my current insurance
If you have any questions or need anything else please let me know

Have a great day

Amanda Hickey AHCS

Get Outlook for Android

**From:** rebecca@apexarchaeology.com.au
**To:** cacatua4service@tpg.com.au
**Subject:** RE: Cacatua EOI for Hunter Valley Renewable Energy Zone
**Date:** Tuesday, 26 September 2023 2:26:13 PM

---

Hi George,

Thank you for your reply and additional information. I have registered Cacatua for this project and will be in touch shortly with more information.

Warm regards,

Rebecca

---

**From:** cacatua4service@tpg.com.au <cacatua4service@tpg.com.au>
**Sent:** Tuesday, September 26, 2023 11:34 AM
**To:** rebecca@apexarchaeology.com.au
**Subject:** Cacatua EOI for Hunter Valley Renewable Energy Zone

Rebecca,

Cacatua would like to express our interest in being involved in Aboriginal Cultural Heritage Assessment, for Hunter Valley Renewable Energy Zone

We have expressed an interest in this project as the area is part of my traditional country and carry an importance to me.

Cacatua is an Aboriginal owned business created to assist proponents and Archaeologists to undertake cultural heritage archaeological assessment according to all processes and approved conditions. Our aim is to provide quality Aboriginal cultural heritage works, while ensuring compliance to work specific practices.

Our Organisation is fully insured and registered with all the correct departments.
The staffs of Cacatua have undertaken work on all types of sites.
Please do not hesitate to contact us if you require more information.

Yours truly

*G Sampson*

George Sampson
Manager

----- Original Message -----
**From:**
rebecca@apexarchaeology.com.au

**To:**
"undisclosed receipients" <jenni@apexarchaeology.com.au>
**Cc:**

**Sent:**
Thu, 21 Sep 2023 14:46:25 +1000
**Subject:**
RE: Hunter Valley region, NSW - Invitation to register

Good afternoon,

Your details have been provided by Heritage NSW as an Aboriginal person or organisation who might like to take part in consultation for a project within the Hunter Valley region, NSW.

Please find attached a letter with more information and inviting you to register your interest by the close of business, Thursday 5th October 2023.

Please get in touch if you have any questions. I look forward to hearing from you.

Kind regards,

f

| | |
|---|---|
| **From:** | Corrroboree Aboriginal Corporation |
| **To:** | rebecca@apexarchaeology.com.au |
| **Subject:** | Re: EOI - Hunter Valley region, NSW - |
| **Date:** | Saturday, 14 October 2023 7:15:31 PM |
| **Attachments:** | image001.png<br>Untitled attachment 00005.htm<br>23115 Hunter REZ - Invitation to register interest.pdf<br>Untitled attachment 00008.htm |

---

Hi Rebecca
Sorry for delay of registering as I've been unwell due to major surgery; as such admin was not able be completed. Now recovering.

We are registering our organisation as we at Corroboree Aboriginal Corporation are identified First Nations people who hold cultural knowledge relevant to this project area and we wish to register an interest in the process of community consultation. As part of our registering we look forward to the opportunity to provide culturally appropriate information and to comment on the cultural heritage significance of Aboriginal Culture and heritage We are registering Corroboree Aboriginal Corporation in a full capacity. We have worked on a vast number of projects as Cultural Heritage Officers in the project area. We are currently involved on many projects in the subject area. My family and other family members have lived in the area and family currently reside in the surrounding areas. We are registering in a full capacity. We are Aboriginal people who are culturally & heritage aware. We have the necessary ability, experience, skills, insight and the knowledge to identify artefacts on field work. And as Aboriginal People we connect thru the land, thru our Ancestors and our Heritage. Therefore we are able participate on all levels. We have worked with many archaeologists across a broad landscape. We have consulted with most archeological companies over many years on projects. We have all the relevant insurances and safety gear. We are all fit, capable and adapt to a vast landscape. Contact is preferred via email: corroboreecorp@outlook.com The contact number, email and contact person is also listed in the signature.
Please do not disclose any of our details to LALC. We have responded for inclusion, to participate on all levels. Thanks.

Kind regards
Marilyn Carroll-Johnson
Director
Corroboree Aboriginal Corporation
Mob: 0415911159
E: corroboreecorp@outlook.com

*We respectfully acknowledge the Traditional Owners of the lands upon which we work and pay our deep respect to Elders past, present and emerging.*

> On 21 Sep 2023, at 2:46 pm, rebecca@apexarchaeology.com.au wrote:
>
> Good afternoon,
>
> Your details have been provided by Heritage NSW as an Aboriginal person or organisation who might like to take part in consultation

for a project within the Hunter Valley region, NSW.

Please find attached a letter with more information and inviting you to register your interest by the close of business, Thursday 5th October 2023.

Please get in touch if you have any questions. I look forward to hearing from you.

Kind regards,

f

| | |
|---|---|
| **From:** | Derrick Vale |
| **To:** | rebecca@apexarchaeology.com.au |
| **Subject:** | RE: Hunter Valley region, NSW - Invitation to register |
| **Date:** | Thursday, 21 September 2023 4:23:40 PM |
| **Attachments:** | image001.png<br>5B17F0C36D374493B5B95E93FA1F8850.png |

G'day

DFTV Enterprises would like to register of Interest for an Aboriginal Cultural Heritage Assessment – Proposed Renewable Energy Zone (REZ) within the Hunter Valley, NSW.

***Kind regards***
***Mr Derrick Vale***
***Managing Director***

DFTV ENTERPRISES INDIGENOUS CORPORATION

***2/4 Young Street East Maitland 2323***

***M. 0438 812 197***

*DFTV ENTERPRISES Indigenous Corporation acknowledges the traditional custodians of country throughout Australia. We pay our respect to them, and to the Elders past, present and future*

Sent from Mail for Windows

---

**From:** rebecca@apexarchaeology.com.au
**Sent:** Thursday, 21 September 2023 2:47 PM
**To:** 'undisclosed receipients'
**Subject:** RE: Hunter Valley region, NSW - Invitation to register

Good afternoon,

Your details have been provided by Heritage NSW as an Aboriginal person or organisation who might like to take part in consultation for a project within the Hunter Valley region, NSW.

Please find attached a letter with more information and inviting you to register your interest by the close of business, Thursday 5th October 2023.

Please get in touch if you have any questions. I look forward to hearing from you.

Kind regards,

f

APEX
ARCHAEOLOGY

Rebecca Bryant
ARCHAEOLOGIST

0405 236 821
REBECCA@APEXARCHAEOLOGY.COM.AU
WWW.APEXARCHAEOLOGY.COM.AU

**From:** lilly carroll
**To:** rebecca@apexarchaeology.com.au
**Subject:** Re: Hunter Valley region, NSW - Invitation to register
**Date:** Thursday, 21 September 2023 6:29:53 PM
**Attachments:** image001.png

---

Hi Rebecca

Can you please register DNC for this project Hunter Valley thanks Rebecca

Sent from Yahoo Mail for iPhone

On Thursday, September 21, 2023, 2:46 pm, rebecca@apexarchaeology.com.au wrote:

> Good afternoon,
>
> Your details have been provided by Heritage NSW as an Aboriginal person or organisation who might like to take part in consultation for a project within the Hunter Valley region, NSW.
>
> Please find attached a letter with more information and inviting you to register your interest by the close of business, Thursday 5th October 2023.
>
> Please get in touch if you have any questions. I look forward to hearing from you.
>
> Kind regards,
>
> f
>
> APEX ARCHAEOLOGY
>
> Rebecca Bryant
> ARCHAEOLOGIST
> 0405 236 821
> REBECCA@APEXARCHAEOLOGY.COM.AU
> WWW.APEXARCHAEOLOGY.COM.AU

| | |
|---|---|
| **From:** | rebecca@apexarchaeology.com.au |
| **To:** | "NTSCORP Notifications"; wscott@ntscorp.com.au |
| **Subject:** | RE: Hunter Region, NSW - Commencement of Aboriginal Cultural Heritage Assessment |
| **Date:** | Friday, 15 September 2023 3:34:04 PM |
| **Attachments:** | image003.png |

Dear Olivia,

Thank you for your reply.

I have registered the Gomeroi People for this project, and I will forward all information regarding the project to the advised email addresses.

Warm regards,

Rebecca

---

**From:** NTSCORP Notifications <notifications@ntscorp.com.au>
**Sent:** Friday, September 15, 2023 12:37 PM
**To:** rebecca@apexarchaeology.com.au
**Cc:** jenni@apexarchaeology.com.au; William Scott <wscott@ntscorp.com.au>
**Subject:** RE: Hunter Region, NSW - Commencement of Aboriginal Cultural Heritage Assessment

Dear Rebecca,

The Gomeroi Applicant acting on behalf of the Gomeroi People native title claim group are cultural knowledge holders for the project area and as such the Gomeroi Applicant wishes to register as a Registered Aboriginal Party for this project and to be notified and involved throughout the consultation and assessment process.

The Relevant contact details are:

Gomeroi Applicant
c/- NTSCORP Limited
Level 1, 44-70 Rosehill Street
Redfern NSW 2016
Email: notifications@ntscorp.com.au and wscott@ntscorp.com.au
Phone: (02) 9310 3188

Kind regards,

**Olivia Charles** | Law Graduate

ntscorp

**NTSCORP proudly acknowledge that our office is situated on the country of the Gadigal People. We also acknowledge and pay our respect to their Elders past and present.**

**t** 61 2 9310 3188 **f** 02 9310 4177
**e:** ocharles@ntscorp.com.au | **w** www.ntscorp.com.au
Level 1, 44-70 Rosehill Street, Redfern, NSW 2016 Australia

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---

**From:** rebecca@apexarchaeology.com.au <rebecca@apexarchaeology.com.au>
**Sent:** Wednesday, September 6, 2023 5:49 PM
**To:** 'undisclosed recipients' <jenni@apexarchaeology.com.au>
**Subject:** Hunter Region, NSW - Commencement of Aboriginal Cultural Heritage Assessment

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good afternoon,

Please find attached a letter requesting contact details for any Aboriginal individuals or organisations who may be interested in being consulted for a project within the Hunter region, NSW. The project covers areas within the Muswellbrook, Singleton and Cessnock Local Government Areas.

Could you please provide a response by Wednesday 20th September 2023

Warm regards,

APEX ARCHAEOLOGY

Rebecca Bryant
ARCHAEOLOGIST
0405 236 821
REBECCA@APEXARCHAEOLOGY.COM.AU
WWW.APEXARCHAEOLOGY.COM.AU

| | |
|---|---|
| **From:** | Leanne Kirkman |
| **To:** | rebecca@apexarchaeology.com.au |
| **Subject:** | Re: Hunter Valley region, NSW - Invitation to register |
| **Date:** | Saturday, 23 September 2023 11:59:18 AM |
| **Attachments:** | image001.png<br>image001.png |

Hi Rebecca it's David horton gomery cultural consultants would like to register for mention project thanks, you can contact me at daveyhorton69@gmail.com thank you.

On Thu, 21 Sep 2023, 2:46 pm , <rebecca@apexarchaeology.com.au> wrote:

> Good afternoon,
>
> Your details have been provided by Heritage NSW as an Aboriginal person or organisation who might like to take part in consultation for a project within the Hunter Valley region, NSW.
>
> Please find attached a letter with more information and inviting you to register your interest by the close of business, Thursday 5th October 2023.
>
> Please get in touch if you have any questions. I look forward to hearing from you.
>
> Kind regards,
>
> f
>
>

| | |
|---|---|
| **From:** | Shayne Dickson |
| **To:** | rebecca@apexarchaeology.com.au |
| **Subject:** | Re: Hunter Valley region, NSW - Invitation to register |
| **Date:** | Tuesday, 26 September 2023 10:29:28 AM |
| **Attachments:** | image001.png |

Good morning Rebecca,

Thank you for the invitation.
Could you please register Gunjeewong for the above project mentioned.

Kind Regards
Shayne Dickson
0421636474

Sent from my iPhone

> On 21 Sep 2023, at 2:47 pm, rebecca@apexarchaeology.com.au wrote:
>
> Good afternoon,
>
> Your details have been provided by Heritage NSW as an Aboriginal person or organisation who might like to take part in consultation for a project within the Hunter Valley region, NSW.
>
> Please find attached a letter with more information and inviting you to register your interest by the close of business, Thursday 5th October 2023.
>
> Please get in touch if you have any questions. I look forward to hearing from you.
>
> Kind regards,
>
> f
> <image001.png>
>
> <23115 Hunter REZ - Invitation to register interest.pdf>

| | |
|---|---|
| **From:** | Manager |
| **To:** | rebecca@apexarchaeology.com.au |
| **Subject:** | Re: Hunter Valley region, NSW - Invitation to register |
| **Date:** | Thursday, 28 September 2023 11:40:28 AM |
| **Attachments:** | image001.png<br>Outlook-lrxavden.png |

Good Morning Rebecca,

Thank you for the opportunity to register an interest in the upcoming REZ in the Hunter Valley Project, please put us down for the project, specifically for the Muswellbrook region.

Regards,

**Kylie Pascoe | CEO**

Hunter Valley Aboriginal Corporation
Ph: (02) 6543 4822
M: 0439 918 992
35 Maitland Street, Muswellbrook NSW
E: ceo@hvabcorp.org.au

---

**From:** rebecca@apexarchaeology.com.au <rebecca@apexarchaeology.com.au>
**Sent:** Thursday, 21 September 2023 2:46 PM
**To:** 'undisclosed receipients' <jenni@apexarchaeology.com.au>
**Subject:** RE: Hunter Valley region, NSW - Invitation to register

Good afternoon,

Your details have been provided by Heritage NSW as an Aboriginal person or organisation who might like to take part in consultation for a project within the Hunter Valley region, NSW.

Please find attached a letter with more information and inviting you to register your interest by the close of business, Thursday 5th October 2023.

Please get in touch if you have any questions. I look forward to hearing from you.

Kind regards,

f

APEX
ARCHAEOLOGY

Rebecca Bryant
ARCHAEOLOGIST

0405 236 821
REBECCA@APEXARCHAEOLOGY.COM.AU
WWW.APEXARCHAEOLOGY.COM.AU

**From:** rebecca@apexarchaeology.com.au
**To:** "Kevin Duncan"
**Subject:** RE: Hunter Valley region, NSW - Invitation to register
**Date:** Monday, 9 October 2023 4:24:51 PM
**Attachments:** 23115 Hunter REZ Draft Information & Methodology.pdf

---

Hi Kevin,

As discussed on the phone and following on from the email I sent you this morning, I have registered you for the Hunter Valley REZ project.
I have attached a copy of the draft information and methodology for your review.

Could you please provide any comments and/or recommendations by Friday 3rd November 2023.

Thank you.

Warm regards,

Rebecca

---

**From:** rebecca@apexarchaeology.com.au <rebecca@apexarchaeology.com.au>
**Sent:** Monday, October 9, 2023 11:20 AM
**To:** 'Kevin Duncan' <kevin.duncan@bigpond.com>
**Subject:** RE: Hunter Valley region, NSW - Invitation to register

Hi Kevin,

Thank you for your email. The registration date for this project actually closed last week, Thursday 5th October, as noted in your email thread. However, I can include you as a late registration and forward you a copy of the information and methodology document. The response to this document is due back on Friday 3rd November and we will not be able to increase the deadline for this response date.

Could you please advise if this is acceptable to you. If so, I will forward you a copy of the information methodology document today for your review and comment.

Warm regards,

Rebecca

---

**From:** Kevin Duncan <kevin.duncan@bigpond.com>
**Sent:** Monday, October 9, 2023 11:03 AM
**To:** rebecca@apexarchaeology.com.au
**Subject:** Re: Hunter Valley region, NSW - Invitation to register

Yaama, Rebecca please include my cultural registration for the Hunter Valley Project , Thank you , Kevin Duncan

On 21 Sep 2023, at 2:46 pm, rebecca@apexarchaeology.com.au wrote:

Good afternoon,

Your details have been provided by Heritage NSW as an Aboriginal person or organisation who might like to take part in consultation for a project within the Hunter Valley region, NSW.

Please find attached a letter with more information and inviting you to register your interest by the close of business, Thursday 5th October 2023.

Please get in touch if you have any questions. I look forward to hearing from you.

Kind regards,

f

<image001.png>

<23115 Hunter REZ - Invitation to register interest.pdf>

**From:** rebecca@apexarchaeology.com.au
**To:** "Robert Young"; Pamelayoungg54@gmail.com
**Subject:** Hunter Valley REZ project
**Date:** Tuesday, 26 September 2023 2:20:04 PM
**Attachments:** image001.png

---

Hi Robert and Pamela,

As discussed, I have registered you and Pamela for the project in the Hunter and will be sending out more information next week.
Robert, I have registered you as the primary contact as we can only have one representative per group, but will forward all correspondence to both of you.

Warm Regards,

Rebecca

APEX ARCHAEOLOGY

Rebecca Bryant
ARCHAEOLOGIST
0405 236 821
REBECCA@APEXARCHAEOLOGY.COM.AU
WWW.APEXARCHAEOLOGY.COM.AU

| | |
|---|---|
| **From:** | Ethan Trewlynn |
| **To:** | rebecca@apexarchaeology.com.au |
| **Subject:** | Re: Hunter Valley region, NSW - Invitation to register |
| **Date:** | Thursday, 21 September 2023 7:03:24 PM |
| **Attachments:** | image001.png<br>image001.png |

Good evening Rebecca,
Ethan Trewlynn of Long Gully Cultural Services,

Thank you for your emails today I'd like to express my interest in this project as I have family connections to these places here in this project area,

Thank you again for your time and I look forward to hearing from you again!

Kind regards,
Ethan Trewlynn of Long Gully Cultural Services

On Thu, 21 Sep 2023, 2:46 pm , <rebecca@apexarchaeology.com.au> wrote:

> Good afternoon,
>
> Your details have been provided by Heritage NSW as an Aboriginal person or organisation who might like to take part in consultation for a project within the Hunter Valley region, NSW.
>
> Please find attached a letter with more information and inviting you to register your interest by the close of business, Thursday 5th October 2023.
>
> Please get in touch if you have any questions. I look forward to hearing from you.
>
> Kind regards,
>
> f

**From:** Thomas Dahlstrom
**To:** rebecca@apexarchaeology.com.au
**Subject:** Re: Hunter Valley region, NSW - Invitation to register
**Date:** Thursday, 21 September 2023 3:23:36 PM

---

Good afternoon Rebecca

I hope you are well. Thank you for the invitation.

Can you please register myself as a RAP for this project please.

Kind regards

Thomas Dahlstrom
Cultural Heritage Consultant

> On 21 Sep 2023, at 2:46 pm, rebecca@apexarchaeology.com.au wrote:
>
> Good afternoon,
>
> Your details have been provided by Heritage NSW as an Aboriginal person or organisation who might like to take part in consultation for a project within the Hunter Valley region, NSW.
>
> Please find attached a letter with more information and inviting you to register your interest by the close of business, Thursday 5th October 2023.
>
> Please get in touch if you have any questions. I look forward to hearing from you.
>
> Kind regards,
>
> f
> <image001.png>
>
> <23115 Hunter REZ - Invitation to register interest.pdf>

**From:** Ungooroo Admin
**To:** "rebecca@apexarchaeology.com.au"; "undisclosed receipients"
**Cc:** Sites
**Subject:** RE: Hunter Valley region, NSW - Invitation to register
**Date:** Friday, 22 September 2023 9:16:55 AM
**Attachments:** image001.png

Good morning,

I am emailing you on behalf of Ungooroo Aboriginal Corporation and our Representative Mr Allen Paget to register our interest in the Hunter Valley region Project.

*Kind Regards*
**Melanie Schulz** | Administration Coordinator

**P: 0265715111 | F: 0265715777**
mschulz@ungooroo.com.au
PO Box 3095, Singleton NSW 2330
Shop 1 – 6, 157 – 159 John Street,
SINGLETON CENTRE, Singleton NSW 2330
**www.ungooroo.com.au**

Ungooroo Aboriginal Corporation acknowledges Aboriginal and Torres Strait Islander people as the Traditional Owners.
We would like to acknowledge the Traditional Owners of our area, the Wanaruah People.
We pay our respect to the elders past, present and future for they hold the memories, traditions, culture and hope of Indigenous peoples in Australia.

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This request and any attachments may be confidential and contain privileged information. It is intended for the addressee only. If you are not the intended recipient you must not use, disclose, copy or distribute this communication. Confidentiality or privilege are not waived or lost by reason of the mistaken delivery to you. If you have received this message in error, please delete and notify the sender

---

**From:** rebecca@apexarchaeology.com.au <rebecca@apexarchaeology.com.au>
**Sent:** Thursday, September 21, 2023 2:46 PM
**To:** 'undisclosed receipients' <jenni@apexarchaeology.com.au>
**Subject:** RE: Hunter Valley region, NSW - Invitation to register

Good afternoon,

Your details have been provided by Heritage NSW as an Aboriginal person or organisation who might like to take part in consultation for a project within the Hunter Valley region, NSW.

Please find attached a letter with more information and inviting you to register your interest by the close of business, Thursday 5th October 2023.

Please get in touch if you have any questions. I look forward to hearing from you.

Kind regards,

f

APEX ARCHAEOLOGY

Rebecca Bryant
ARCHAEOLOGIST
0405 236 821
REBECCA@APEXARCHAEOLOGY.COM.AU
WWW.APEXARCHAEOLOGY.COM.AU

**From:** Maree Waugh
**To:** rebecca@apexarchaeology.com.au
**Subject:** Re: Hunter Valley region, NSW - Invitation to register
**Date:** Tuesday, 26 September 2023 9:39:02 PM
**Attachments:** image001.png

---

Hi Rebecca,
Wallangan Cultural Services would like to register my interest in the project.
Maree Waugh
Wallangan Cultural Services
0439813078

Get Outlook for Android

---

**From:** rebecca@apexarchaeology.com.au <rebecca@apexarchaeology.com.au>
**Sent:** Thursday, September 21, 2023 2:46:25 PM
**To:** 'undisclosed receipients' <jenni@apexarchaeology.com.au>
**Subject:** RE: Hunter Valley region, NSW - Invitation to register

Good afternoon,

Your details have been provided by Heritage NSW as an Aboriginal person or organisation who might like to take part in consultation for a project within the Hunter Valley region, NSW.

Please find attached a letter with more information and inviting you to register your interest by the close of business, Thursday 5th October 2023.

Please get in touch if you have any questions. I look forward to hearing from you.

Kind regards,

f

APEX ARCHAEOLOGY
Rebecca Bryant
ARCHAEOLOGIST
0405 236 821
REBECCA@APEXARCHAEOLOGY.COM.AU
WWW.APEXARCHAEOLOGY.COM.AU

**From:** WIDESCOPE .
**To:** rebecca@apexarchaeology.com.au
**Subject:** RE: Hunter Valley region, NSW - Invitation to register
**Date:** Tuesday, 26 September 2023 5:33:04 PM
**Attachments:** image001.png

---

Hi Rebecca,

Please register Steven Hickey's interest in the project. Thanks

Regards

**Donna and Steven Hickey**
**Widescope Indigenous Group**

+61425232056 | 73 Russell Street, Emu Plains, NSW 2750

Email:widescope.group@live.com

---

**From:** rebecca@apexarchaeology.com.au
**Sent:** Thursday, 21 September 2023 2:47 PM
**To:** 'undisclosed receipients'
**Subject:** RE: Hunter Valley region, NSW - Invitation to register

Good afternoon,

Your details have been provided by Heritage NSW as an Aboriginal person or organisation who might like to take part in consultation for a project within the Hunter Valley region, NSW.

Please find attached a letter with more information and inviting you to register your interest by the close of business, Thursday 5th October 2023.

Please get in touch if you have any questions. I look forward to hearing from you.

Kind regards,

f

APEX ARCHAEOLOGY

Rebecca Bryant
ARCHAEOLOGIST
0405 236 821
REBECCA@APEXARCHAEOLOGY.COM.AU
WWW.APEXARCHAEOLOGY.COM.AU

| | |
|---|---|
| **From:** | Lawrence Perry |
| **To:** | rebecca@apexarchaeology.com.au |
| **Subject:** | FW: ACHA – Proposed Renewable Energy Zone, Electrical Infrastructure Project – Hunter Valley, Maitland, Singleton, Muswellbrook, Upper Hunter – 21 September 2023. |
| **Date:** | Wednesday, 27 September 2023 10:39:01 AM |
| **Attachments:** | image001.png<br>image002.png<br>image004.png<br>23115 Hunter REZ - Invitation to register interest.pdf |

Hi Rebecca

WNAC are seeking a register of interest for this project.

Cheers

*Laurie Perry*

**Chief Executive Officer**

**Wonnarua Nation Aboriginal Corporation**

**T** 02 6571 8595 **M** 0412 593 020 **E** laurie.perry2020@outlook.com

Ground Floor 254 John St Singleton NSW 2330

PO BOX 3066 Singleton 2330

W www.wonnarua.org.au

E enquiries@wonnarua.org.au

We acknowledge the Traditional Custodians of the Land I work on and pay my respect to Elders both past, present and future.

**From:** NTSCORP Notifications

**Sent:** Wednesday, September 27, 2023 10:14 AM

**Subject:** ACHA – Proposed Renewable Energy Zone, Electrical Infrastructure Project – Hunter Valley, Maitland, Singleton, Muswellbrook, Upper Hunter – 21 September 2023.

Dear all,

Please see the attached notice of an ACHA.

Ausgrid has engaged Apex Archaeology to prepare an ACHA ahead of a proposed infrastructure to modernize the electricity system within the Hunter Valley, including installing a transmission line from Singleton to Kurri, fibre-optic cables from Singleton to Muswellbrook, and the construction of a new Eastern Hub switching station on the Singleton to Kurri transmission line. Please see the map in the attached notice for the full extent of the proposed project.

Apex Archaeology invite Aboriginal people who hold cultural knowledge relevant to determining the cultural significance of Aboriginal objects and places within the study area to register an interest in the process of Aboriginal community consultation. To register your interest, please

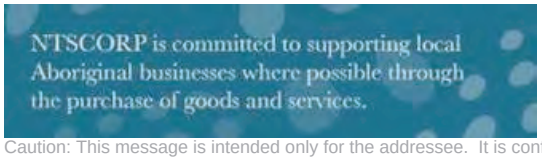
contact Richard Dunnicliff (rdunnicliff@ausgrid.com.au) by **5 October 2023.**

Kind regards,

**Zoe Robertson** | Paralegal

**NTSCORP proudly acknowledge that our office is situated on the country of the Gadigal People of the Dharug Nation.**
**We also acknowledge and pay our respect to their Elders past and present.**

**f** 02 9310 4177 | **t** 61 2 9310 3188 |
**e** zrobertson@ntscorp.com.au | **w** www.ntscorp.com.au
Level 1, 44-70 Rosehill Street, Redfern, NSW 2016 Australia

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Please consider the environment before printing this email

---

**From:** rebecca@apexarchaeology.com.au <rebecca@apexarchaeology.com.au>
**Sent:** Thursday, September 21, 2023 2:46:25 PM
**To:** 'undisclosed receipients' <jenni@apexarchaeology.com.au>
**Subject:** RE: Hunter Valley region, NSW - Invitation to register

You don't often get email from rebecca@apexarchaeology.com.au. Learn why this is important

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Good afternoon,

Your details have been provided by Heritage NSW as an Aboriginal person or organisation who might like to take part in consultation for a project within the Hunter Valley region, NSW.

Please find attached a letter with more information and inviting you to register your interest by the close of business, Thursday 5th October 2023.

Please get in touch if you have any questions. I look forward to hearing from you.

Kind regards,

f

APEX
ARCHAEOLOGY

Rebecca Bryant
ARCHAEOLOGIST

0405 236 821
REBECCA@APEXARCHAEOLOGY.COM.AU
WWW.APEXARCHAEOLOGY.COM.AU

| | |
|---|---|
| **From:** | Scott Franks |
| **To:** | rebecca@apexarchaeology.com.au |
| **Cc:** | nicola.roche@environment.nsw.gov.au |
| **Subject:** | Re: Hunter Valley region, NSW - Invitation to register |
| **Date:** | Thursday, 21 September 2023 2:57:29 PM |
| **Attachments:** | image001.png<br>image001.png<br>23115 Hunter REZ - Invitation to register interest.pdf |

---

Rebecca,

Yarrawalk is registering our interest in this project.

Regards
Scott Franks
Native title claimant for the PCWP PBC 7800
Yarrawalk PTY Limited
Scott@yarrwalk.com.au
Ph: 0404171544
*Breach of Confidentiality*
This email and any files transmitted with it are confidential and intended solely for the use of the individual to whom they are addressed. If you have received this email in error please notify the sender. This message contains confidential information and is intended only for the individual named. If you are not the named addressee you should not disseminate, distribute or copy this e-mail. Please notify the sender immediately by e-mail if you have received this e-mail by mistake and delete this e-mail from your system. If you are not the intended recipient you are notified that disclosing, copying, distributing or taking any action in reliance on the contents of this information is strictly prohibited. *Although the company has taken reasonable precautions to ensure no viruses are present in this email, the company cannot accept responsibility for any loss or damage arising from the use of this email or attachments.*

> On 21 Sep 2023, at 2:47 pm, rebecca@apexarchaeology.com.au wrote:
>
> Good afternoon,
>
> Your details have been provided by Heritage NSW as an Aboriginal person or organisation who might like to take part in consultation for a project within the Hunter Valley region, NSW.
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>
> Please get in touch if you have any questions. I look forward to hearing from you.
>
> Kind regards,
>
> f

| | |
|---|---|
| **From:** | Wolf |
| **To:** | rebecca@apexarchaeology.com.au; Kathie Phone; Wolf |
| **Subject:** | Re: Yinarr Cultural Services Register of Interest for an Aboriginal Cultural Heritage Assessment – Proposed Renewable Energy Zone (REZ) within the Hunter Valley, NSW. |
| **Date:** | Thursday, 5 October 2023 4:00:42 PM |
| **Attachments:** | Rebecca Bryant - Apex Archaeology - Yinarr Cultural Services Register of Interest - Proposed Renewable Energy Zone (REZ) within the Hunter Valley, NSW..doc<br>Workers Compensation - iCare.pdf<br>Public Liability Insurance - BizCover.pdf<br>Certificate 1 in Aboriginal Languages.pdf<br>Certificate of Achievment Climate Change.pdf<br>Certificate of Achievement Certificate 1 in Aboriginal Languages.pdf<br>Confirmation of Aboriginality Wanaruah Local Aboriginal Lands Council (WLALC).pdf<br>Hunter Valley Aboriginal Corporation (HVAC) Confirmation of Aboriginality Part. 1.pdf<br>Hunter Valley Aboriginal Corporation (HVAC) Confirmation of Aboriginality Part. 2.pdf<br>Learning Outcomes Aboriginal Site School.pdf<br>NSW Driver"s Licence.pdf<br>Occupational Health and Safety - White Card & LF Fork Lift Truck Licence.pdf<br>OHS General Induction for Construction Work in NSW.pdf<br>Letter for Confirmation of Aboriginality Commissioner Jim Wright (ATSIC).pdf<br>Statement of Attainment in Aboriginal Sites School.pdf<br>Statement of Attainment in Certificate IV in Training and Assessment.pdf<br>Statement of Attainment - Certificate IV in Business (Governance).pdf<br>Transcript of Academic Record Certificate IV in Training and Assessment.pdf<br>Work Card.pdf<br>Statement of Attainment Aboriginal Studies and Aboriginal Painting.pdf<br>Work Cards.pdf<br>Transcript of Academic Record Statement of Attainment in Aboriginal Site Works.pdf |

---

Dear Rebecca,

I am writing to inform you that I have attached Yinnar Cultural Services register of interest for an Aboriginal Cultural Heritage Assessment. This assessment is for the proposed Renewable Energy Zone (REZ) within the Hunter Valley, NSW. Additionally, I have included other essential documents and our current insurance information for your records.

If you have any questions or concerns, please do not hesitate to contact us. You can reach us via mobile at 0426 585 110 or by email at yinarrculturalservices@gmail.com or dontminemeay@gmail.com.

Can you please confirm that you have received this message? Thank you.

Best regards,

Kathie Steward Kinchela
First Nation Cultural Heritage Custodian, Kanyini of Country and Consultant Advisor

# Appendix D: Advertisement

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## Funeral Notices

### McCLEARY, Lynne Marie

**Late of Toowoomba, formerly of Narrabri and Newcastle, passed away peacefully on 17th September 2023, aged 66 years.**

Dearly loved Wife of Peter. Much loved Mother of Lauren, Andrea and Sam; Sam and Kylie. Cherished Sister to Kathryn, and beloved Grandma to Albie, August, Milo, Tom and Margot.

Relatives and friends are warmly invited to attend Lynne's Memorial Service to be held at the T.S. Burstow Chapel, 1020 Ruthven Street (south), Toowoomba, Tuesday, 26th September 2023, commencing at 12.00pm.

To share in the service via web stream, please go to **www.burstows.com.au/tribute-centre**

Donations to Pankind.org.au would be greatly appreciated by the family in lieu of flowers.

❤ ***"Entertained and loved all"*** ❤

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## Tributes


# PINK RIBBON DAY

**21 OCTOBER 2023**

There aren't many Australians whose lives have not been touched by breast cancer, either directly or through a family member or friend.

Australian Community Media is aiming to raise support for this worthy cause during Breast Cancer Awareness month and will be running a special feature page in our various Newcastle and Hunter Publications over the week from the 16th - 21st October.

Here is an opportunity to send out a special Thank You, Tribute, or a message of encouragement to someone you care for and also for your business to participate.

Newcastle Herald · Mercury · The Advertiser · Port Stephens Examiner · The Singleton Argus · Dungog Chronicle

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## Public Notices

### Aboriginal Cultural Heritage Assessment: Proposed Renewable Energy Zone (REZ) within the Hunter Valley, NSW Notification and Registration of Aboriginal Interests

Ausgrid has engaged Apex Archaeology to assist in preparing an Aboriginal Cultural Heritage Assessment (ACHA) for a proposed infrastructure project to modernise the electricity system within the Hunter Valley, NSW. The project will be undertaken in two stages and includes areas within the Cessnock, Singleton and Muswellbrook Local Government Areas (LGAs).

The first stage of the proposed works will encompass construction of a 132kV transmission line and upgrades of sub-transmission stations covering a distance of approximately 60 km from Singleton to Kurri. Two fibre-optic underground cables from Singleton to Muswellbrook will also be constructed within the existing overhead powerline easements.

The second stage of the proposed works will include the construction of a new Eastern Hub 132kV switching station that will connect with the Singleton to Kurri transmission. Rearrangement of the existing Upper Hunter transmission network will connect between the Eastern Hub to Muswellbrook. An upgrade to Muswellbrook sub-transmission substation will also be necessary, and both stages will require pole replacements, access track works and vegetation clearing.

A large number of registered Aboriginal sites have been identified as being within the study area and surrounds. These require investigation in order to understand and manage potential impacts on Aboriginal cultural values and to determine the requirement to apply for an Aboriginal Heritage Impact Permit (AHIP) for the project. As such, a process of Aboriginal community consultation in accordance with the *Aboriginal cultural heritage consultation requirements for proponents 2010* is being initiated by Apex Archaeology. The purpose of consultation with Aboriginal people is to assist the proponent in the preparation of an application for an AHIP and to assist the DPC Secretary in the DPC Secretary's consideration and determination of the application.

The proponent invites Aboriginal people who hold cultural knowledge relevant to determining the cultural significance of Aboriginal objects and places within the study area to register an interest in the process of Aboriginal community consultation.

Please note that details of the Aboriginal people or organisations who register an interest in consultation will be forwarded to Heritage NSW, the Wanaruah Local Aboriginal Land Council, and Mindaribba Local Aboriginal Land Council. Please advise at the time of registration if you do not wish for your details to be forwarded to these entities.

The project manager for Ausgrid is Richard Dunnicliff who can be contacted via email at **rdunnicliff@ausgrid.com.au.**

Aboriginal stakeholders can register their interest by post to PO Box 236, Nowra, NSW 2541; via phone on 0405 236 821; or via **rebecca@apexarchaeology.com.au.** Please include the name and contact details of your preferred contact person in your registration.

**Registrations will be accepted until COB Thursday 5 October 2023.**

## PUBLIC NOTICE

**Notice of an application to modify the development consent for the Mount Pleasant open cut coal mine (DA92/97) under section 4.55 of the *Environmental Planning and Assessment Act 1979* (NSW)**

MACH Energy Australia Pty Ltd (ABN 34 608 495 441) carries out the Mount Pleasant Operation, an existing and approved open cut coal mine and associated infrastructure located at Wybong Road, Muswellbrook NSW 2333, pursuant to a development consent (DA 92/97) granted on 22 December 1999 (the Consent). The Consent has been modified five times.

MACH Energy Australia Pty Ltd has made an application to the Minister for Planning to modify the Consent under section 4.55 of the *Environmental Planning and Assessment Act 1979* (NSW) (EP&A Act). The modification application has been made on behalf of the Mount Pleasant Joint Venture. The participants in the Mount Pleasant Joint Venture are MACH Energy Australia Pty Ltd and J.C.D. Australia Pty Ltd.

This notice of the modification application is given by MACH Energy Australia Pty Ltd in accordance with clause 98(4)(b) of the *Environmental Planning and Assessment Regulation 2021* (NSW).

**Modification Application details**

Modification Application No: DA 92/97 MODIFICATION 6

Applicant: MACH Energy Australia Pty Ltd
Suite 302, Level 3
251 Wharf Road
NEWCASTLE NSW 2300

Modification Description: The Mount Pleasant Operation is an existing and approved open cut coal mine and associated infrastructure, located approximately 3 kilometres north west of the town of Muswellbrook, within the Muswellbrook Local Government Area, in the Upper Hunter Valley of New South Wales. The modification will allow for the construction and operation of a re-transmission facility including a tower or mast, shed and associated transmission infrastructure, to re-transmit local digital television signal from the existing Broadcast Australia site at Rossgole Lookout. The modification will also seek amendments to the wording of Condition 2, Schedule 2 of the Consent.

The modification application will be made publicly available on the NSW planning portal: **www.planningportal.nsw.gov.au**


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# Appendix E: Initial Methodology, Cover Letters and Responses & Test Excavation Methodology

HUNTER VALLEY RENEWABLE ENERGY ZONE (REZ), NSW

# METHODOLOGY AND PROJECT INFORMATION

LGAs: Cessnock, Singleton, and Muswellbrook

November 2023

APEX ARCHAEOLOGY

PO Box 236, Nowra, NSW 2541 | heritage@apexarchaeology.com.au | www.apexarchaeology.com.au

ABN 56 625 618 993

Apex Archaeology would like to acknowledge the Aboriginal people who are the traditional custodians of the land in which this project is located. Apex Archaeology would also like to pay respect to Elders both past and present.

## Document Control

The following register documents the development and issue of the document entitled 'Hunter Valley Renewable Energy Zone (REZ), NSW – Methodology and Project Information', prepared by Apex Archaeology in accordance with its quality management system.

| Revision | Prepared by | Reviewed by | Comment | Issue Date |
|---|---|---|---|---|
| 1 – Draft | Rebecca Bryant | Jenni Bate | Client review | 3 October 2023 |
| 2 – Draft | Rebecca Bryant | Ausgrid | Issue for RAP review | 6 October 2023 |
| 3 – Final | Jenni Bate | RAPs | Issue of final | 8 November 2023 |

## GLOSSARY OF TERMS

| | |
|---|---|
| **Aboriginal Object** | An object relating to the Aboriginal habitation of NSW (as defined in the NPW Act), which may comprise a deposit, object or material evidence, including Aboriginal human remains. |
| **ACHA** | Aboriginal Cultural Heritage Assessment |
| **ACHCRs** | The DECCW April 2010 *Aboriginal cultural heritage consultation requirements for proponents 2010* |
| **AHIMS** | Aboriginal Heritage Information Management System maintained by Heritage NSW, detailing known and registered Aboriginal archaeological sites within NSW |
| **AHIP** | Aboriginal Heritage Impact Permit |
| **BP** | Before Present, defined as before 1 January 1950. |
| **Code of Practice** | The DECCW September 2010 *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales* |
| **Consultation** | Aboriginal community consultation in accordance with the DECCW April 2010 *Aboriginal cultural heritage consultation requirements for proponents 2010.* Consultation is not a required step in a due diligence assessment; however, it is strongly encouraged to consult with the relevant Local Aboriginal Land Council and to determine if there are any Aboriginal owners, registered native title claimants or holders, or any registered Indigenous Land Use Agreements in place for the subject land |
| **DA** | Development Application |
| **DECCW** | The Department of Environment, Climate Change and Water – now Heritage NSW |
| **Disturbed Land** | If land has been subject to previous human activity which has changed the land's surface and are clear and observable, then that land is considered to be disturbed |
| **Due Diligence** | Taking reasonable and practical steps to determine the potential for an activity to harm Aboriginal objects under the *National Parks and Wildlife Act 1974* and whether an application for an AHIP is required prior to commencement of any site works, and determining the steps to be taken to avoid harm |
| **Due Diligence Code of Practice** | The DECCW Sept 2010 *Due Diligence Code of Practice for the Protection of Aboriginal Objects in New South Wales* |
| **GIS** | Geographical Information Systems |
| **GSV** | Ground Surface Visibility |
| **Heritage NSW** | Heritage NSW in the Department of Premier and Cabinet, responsible for heritage matters within NSW |
| **Harm** | To destroy, deface or damage an Aboriginal object; to move an object from land on which it is situated, or to cause or permit an object to be harmed |
| **LALC** | Local Aboriginal Land Council |
| **LGA** | Local Government Area |
| **NPW Act** | NSW *National Parks and Wildlife Act* 1974 |
| **OEH** | Office of Environment and Heritage – now Heritage NSW |
| **RAPs** | Registered Aboriginal Parties |
| **REZ** | Renewable Energy Zone |

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# 1.0 INTRODUCTION

Ausgrid has engaged Apex Archaeology to assist in preparing an Aboriginal Cultural Heritage Assessment (ACHA) for a proposed infrastructure project to modernise the electricity system within the Hunter Valley, NSW (Figure 1). The project will be undertaken in two stages and includes areas within Cessnock, Singleton and Muswellbrook Local Government Areas (LGAs).

A number of registered Aboriginal sites have been identified as being within the study area and surrounds. These require investigation in order to understand and manage potential impacts on Aboriginal cultural values and to determine the requirement to apply for an Aboriginal Heritage Impact Permit (AHIP) for the project. As such, a process of Aboriginal community consultation in accordance with the *Aboriginal cultural heritage consultation requirements for proponents 2010* (the ACHCRs) has been initiated by Apex Archaeology.

The following document provides information about the project, and outlines the detailed methodology for cultural heritage assessment, field survey and test excavation (as required) that Apex Archaeology will be utilising for this project, along with the proposed heritage management activities. It has been developed to address requirements of Section 4.3 in the ACHCRs. The assessment would also be undertaken in accordance with the *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales* (the Code of Practice).

## 1.1 STUDY AREA AND PROJECT BRIEF

The study areas are located within the Cessnock, Singleton and Muswellbrook LGAs, and are also within the boundaries of the Wanaruah and Mindaribba Local Aboriginal Land Councils. The project will be undertaken in two stages. The first stage of the proposed works will encompass a 132kV transmission line, pole replacements, access tracks, and upgrades of sub-transmission stations covering a distance of approximately 60 km from Singleton to Kurri. Two fibre-optic underground cables from Singleton to Muswellbrook will also be constructed within the existing overhead powerline easements.

The second stage of the proposed works will include the construction of a new Eastern Hub 132kV switching station comprising approximately 8 ha. This will connect with the Singleton to Kurri transmission line. Additional rearrangement of the existing Upper Hunter transmission network will also be necessary to connect between the new Eastern Hub and existing facilities in Muswellbrook. All these works will require pole replacements, access track works and vegetation clearing, as well as an upgrade to Muswellbrook sub-transmission substation with an extension to the existing yard.

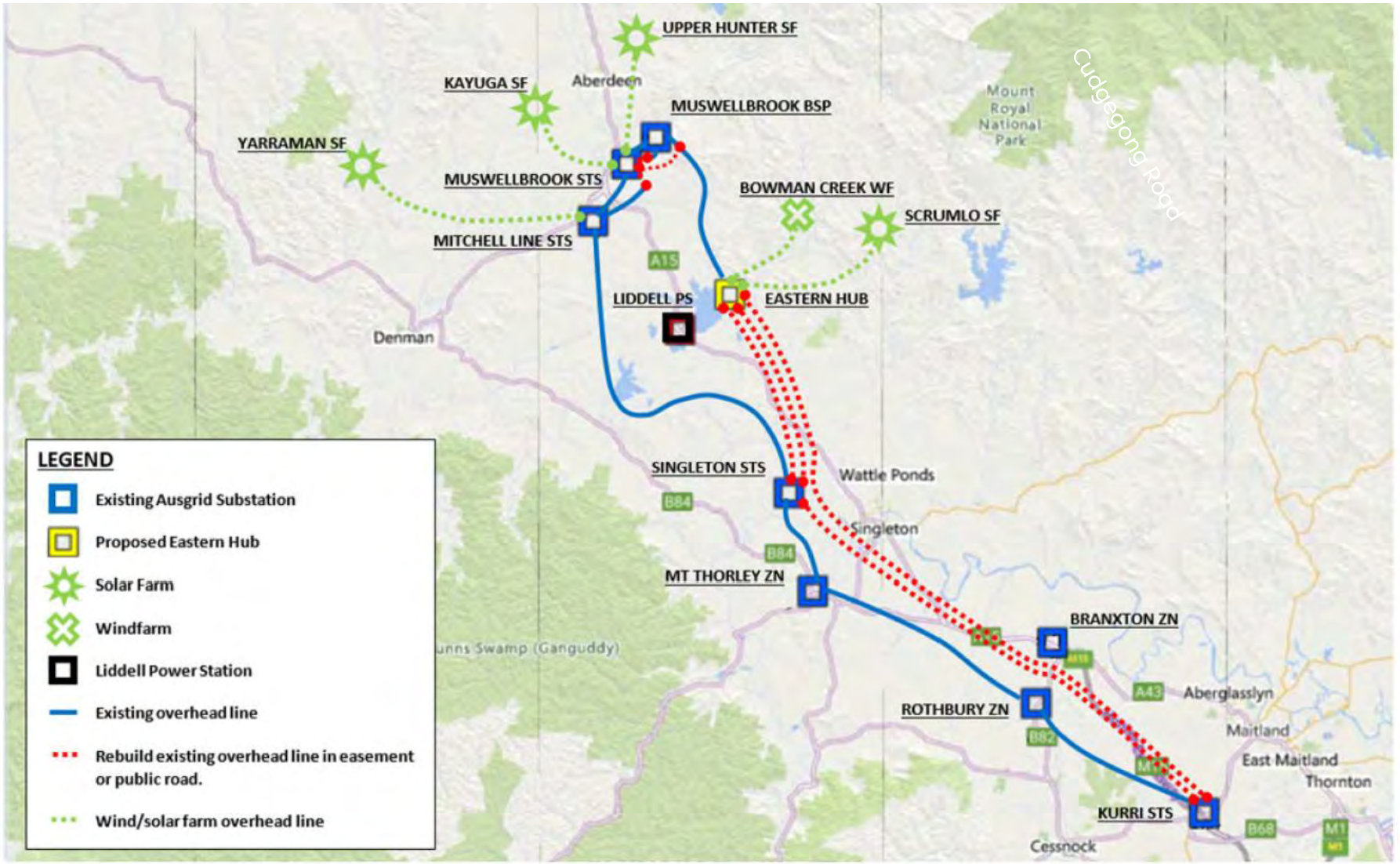



Figure 1: Indicative layout of proposed works within the Hunter Region (Source: Ausgrid)

## 1.2 Purpose of Consultation

In accordance with the ACHCRs, the purpose of consultation with Aboriginal people and organisations is to:

- Understand Aboriginal people's views and concerns about the proposed project;
- Understand the Aboriginal cultural heritage values present within the area;
- Assist in gathering relevant information about the cultural significance and values of the area;
- Consider cultural and scientific significance and values as part of the design of the methodology;
- Assist in developing cultural heritage management options and recommendations for the area; and
- To assist the Chief Executive in their consideration and determination of any AHIP application that may be required.

Please note, Section 3.4 of the ACHCRs states the following:

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

Reasonable costs will be paid by the proponent to any Aboriginal people engaged to assist with site inspections or other activities which may be required, such as salvage excavation. However, these activities are separate to the consultation process and do not form part of the process itself.

## 1.3 COVID Policies

Apex Archaeology takes the safety of our staff and the wider community very seriously. All recommendations from both the NSW Government and NSW Health will be implemented as necessary, including social distancing, wearing of masks, limiting the number of participants in meetings, ensuring adequate locations for meetings are selected if they should occur, and any other restrictions that may be implemented. As such, we are encouraging communications via phone, email, post, or video conferencing as appropriate.

# 2.0 Cultural Heritage Assessment

Apex Archaeology recognises that "Aboriginal people are the primary determinants of the cultural significance of their heritage" (DECCW 2010). As such, Apex Archaeology will undertake consultation with the Aboriginal community to provide an opportunity for cultural knowledge relating to the study area to be recorded and included in the Cultural Heritage Assessment.

A methodology has been prepared to guide test excavations and prepare a test excavation report in accordance with the *2010 Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales* (Code of Practice) in the event they are required to inform the assessment. The steps involved are presented below.

## 2.1 Full Assessment

A full assessment would comprise production of an Aboriginal Cultural Heritage Assessment Report (ACHAR) to meet the ACHCRs and an Archaeological Report (AR) to meet the Code of Practice requirements.

The ACHAR would outline the results of the Aboriginal community consultation, and the AR would include the results of the Aboriginal archaeological assessment of the study area. The reports would be prepared in order to support any Aboriginal Heritage Impact Permit (AHIP) application necessary. The ACHCRs and the Code of Practice are complementary and work with each other to allow a comprehensive assessment of Aboriginal cultural heritage within an area.

## 2.2 The ACHCRs

The *Aboriginal cultural heritage consultation requirements for proponents* (ACHCRs) detail how consultation with the Aboriginal community is to be undertaken in order to assess the cultural significance of an area. There are four stages, as detailed below. Each stage has statutory timeframes associated to ensure sufficient time is allowed for registered Aboriginal parties (RAPs) to provide an appropriate response.

### Stage 1: Notification of Project Proposal and Registration of Interest

Stage 1 requires a list of Aboriginal people who may have cultural knowledge relevant to the area to be prepared from several sources of information. The first step requires enquiries to be made of certain statutory bodies regarding whether they are aware of Aboriginal people or organisations that may have an interest in the study area, and their contact details. Any Aboriginal people or organisations identified in this step must be contacted and invited to register an interest in the project. In addition, a notification must be placed in local print media requesting Aboriginal people or organisations to register their interested in the project. A list of those who register an interest must be compiled. A minimum of 14 days from the date of the letter or newspaper advertisement must be allowed for registrations of interest.

This stage has been completed for this project and a total of 18 Aboriginal stakeholders have registered an interest in being consulted for the project.

#### Stage 2: Presentation of Information About the Proposed Project

During Stage 2, information about the proposed project is provided to the RAPs, including location, scale, proposed development plans, timeframes, methodologies and any other relevant details relating to the project.

#### Stage 3: Gathering Information About Cultural Significance of the Project

During Stage 3, RAPs are invited to share information about the cultural significance of the study area, which can assist in the assessment of the cultural significance of the Aboriginal objects and/or places within the study area. The cultural heritage assessment informs and integrates with the scientific assessment of significance and therefore can assist in the development of mitigation and management measures for the project. Any feedback must be considered and implemented as appropriate into the methodology.

*In this instance Apex Archaeology is providing this document in fulfilment of Stage 2 and 3 of the Consultation Guidelines.*

#### Stage 4: Review of Draft Cultural Heritage Assessment Report

Stage 4 sees the preparation of the draft ACHA Report, which details the results of the cultural heritage assessment. The draft is provided to the RAPs for their review and comment. A minimum of 28 days to comment on the ACHAR must be allowed. All comments must be addressed in the final document and the proponent's response to RAP comments must be included. Copies of any submissions received from RAPs must be included in the final ACHAR.

## 2.3 The Code of Practice

The Code of Practice provides a guideline for undertaking the archaeological and scientific assessment of Aboriginal archaeological sites within NSW. There are a number of requirements to be followed which will enable an assessment of the nature and extent of any archaeological deposits within the study area.

Previous archaeological work within an area can provide important information about the archaeological context of an area which can be used in the development of a predictive model for the specific study area, along with the ethnohistorical context of a study area. Sources of information include previous archaeological assessment reports and searches of the Aboriginal Heritage Information Management System (AHIMS), and the results will be included in the AR prepared for the project.

An understanding of the landscape context in which a study area is located can assist in the assessment of the likelihood of archaeological material being preserved (if present), and if it is likely to be present, how well it may have been preserved. It can also assist in predicting how Aboriginal people may have used the area in the

past and therefore how any archaeological material may have been distributed across the landscape. A number of factors must be included, such as past land use, landforms present, geomorphic activity within the study area, any erosion, types of soils present and natural resources within the area.

Based on the information identified during the above process, a predictive model of Aboriginal land use of the area will be developed, which considers how archaeological evidence may have been distributed across the landscape. This predictive model will include an assessment of how and why Aboriginal people may have utilised the area in the past (for example, for subsistence activities, camping, ceremonial purposes, etc) and will consider both the spatial and temporal relationships of archaeological sites. Statements about the archaeological potential of specific areas within the study area will be made and presented in the AR.

## 2.4 Test Excavation

This document forms a part of the Aboriginal community consultation in accordance with the ACHCRs, which must have been implemented and completed to the stage of inviting comments on the methodology at a minimum, prior to undertaking test excavation. A detailed sampling strategy for both survey and test excavation is also proposed in this document. If test excavations are required within the study area, they will be undertaken in accordance with the detailed methodology proposed in Section 3.3. At this stage of the assessment, the requirement for test excavation to be completed is not yet known and will be informed by completion of the site survey.

Test excavations must be conducted in accordance with Requirement 16 of the Code of Practice, which details the size of test pits, spacing, sieving methodology, and other details relating to test excavations. Any archaeological objects recovered during excavation must be recorded and managed appropriately.

## 2.5 RAP Input

If comments are received from RAPs stating that an alternative method would be preferred for any of the following sections, these will be considered and alternatives may be proposed, with this document updated to reflect the amendments.

RAPs are under no obligation to share any cultural knowledge that they do not wish to share. It should be noted that our ultimate goal is to protect and avoid any known sites of archaeological and/or cultural significance, and if we do not know the location of these, we cannot ensure they are avoided.

# 3.0 Detailed Methodology

Apex Archaeology has prepared the following detailed methodologies for assessment of cultural significance, field survey, preparation of test pit locations, manual excavation of test pits, additional salvage and recording of test pits.

## 3.1 Cultural Significance

In order to gather information about the cultural significance of the study area, the following methodology will be followed for the project:

Aboriginal people who have registered an interest in being consulted for the project (registered Aboriginal parties – RAPs) may have an opportunity to visit the site and discuss the impacts that have already occurred within the site, and what is proposed as part of the development. During this visit, RAPs may have an opportunity to discuss any cultural knowledge that they may have regarding the site, should they wish to disclose such. RAPs would also have the opportunity to share knowledge either in writing or via telephone if they prefer. Additionally, requests for cultural knowledge may be made in writing.

Wherever possible, we prefer to communicate in writing, generally via email if possible. This is for a number of reasons, as follows:

- It ensures all information shared is recorded appropriately, which can be missed in phone conversations.
- It ensures all participants in consultation are able to provide a measured and considered response, rather than being 'put on the spot' by a phone call, and thus all participants can respond at their leisure within the consultation timeframes.
- It ensures consultation can be undertaken in an appropriately civil manner by all participants.

Any cultural knowledge provided by the RAPs will be treated in the manner determined by the RAPs. Any requests for knowledge to be kept confidential or restricted in terms of who may access the information would be respected. Electronic documents would be password protected where necessary to protect the integrity of the information. Information would only be included in reports where permission to include such is given.

Should you prefer to be consulted in a manner other than in writing (email or letter), please advise as a response to this document and advise your preferred manner of consultation.

## 3.2 Field Survey Sampling Strategy

The field survey will be completed in accordance with the *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales* (DECCW, September 2010) (the Code of Practice); and the *Guide to investigating, assessing*

*and reporting on Aboriginal cultural heritage in NSW* (April 2011) and *Applying for an Aboriginal Heritage Impact Permit: Guide for Applicants* (May 2011). The field survey is not intended to be an opportunity for gathering information regarding the cultural significance of the area, but rather is a scientific inspection of the area to determine the current state and archaeological potential of the site. The survey will be undertaken in accordance with the following:

- The study area will be visually inspected by pedestrian survey;
- The study area will be surveyed utilising pedestrian transects, with each participant responsible for inspecting a 2m wide transect on each pass;
- If stone artefacts are identified on the ground each item will have a flag placed at its location;
- The Archaeologist will record each item as per the lithic site recording form and lithic item recording form detailed below;
- The study area will be recorded utilising survey recording forms. The following is a list of attributes that will be recorded for each area surveyed:
    - Survey area;
    - Recorder name;
    - Date;
    - Landform element;
    - Slope;
    - Distance to watercourse;
    - Vegetation;
    - Land surface;
    - Rock outcrops;
    - Detection limiting factors; and
    - Ground disturbance.
- The study area will be divided into survey units based on landform and given ratings in the following categories:
    - Survey area (as defined by the length of area surveyed multiplied by two. A participant in this instance can only see 1m either side at a time. Survey area covered increases when more participants are added);
    - Total area surveyed;
    - Percentage of sample inspected;
    - Archaeological visibility (this is a percentage of potential within the landform);
    - Surface visibility;
    - Exposure type; and
    - Effective survey coverage
- Photos of each survey unit will be taken and identifying photograph file numbers recorded on the survey recording forms.
- Aboriginal lithic site recording forms will be used to record artefact scatters and isolated finds. The following list of attributes will be recorded for each site:
    - Site Number;
    - Survey Area;
    - Date;
    - Recorder name;
    - Total number of artefacts recorded;

- Visible extent of artefacts;
- Extent of surface exposure;
- GPS reading;
- Sub-surface potential;
- Research potential;
- Raw stone material available;
- Ground Disturbance;
- Vegetation;
- Photographs of site; and
- Site plan.

- Each artefact will be recorded using a lithic item recording form with the following attributes recorded:
  - Artefact number;
  - Locus;
  - Colour;
  - Stone material;
  - Lithic item type;
  - Length, Width & Thickness (mm);
  - Cortex Percentage;
  - Cortex type; and
  - Comments.

## 3.3 Test Pit Layout

No archaeological investigation in the form of subsurface test excavation is currently proposed at this stage. However, if further investigation in the form of test excavation is required, locations for test pits will be determined upon completion of the initial site survey, and the following methodology would be implemented:

- Transects will be spaced at 10m, with pits at 20m intervals, in a 'checkerboard' fashion, in accordance with the method described in Orton 2000:90 whereby a staggered square grid is considered more efficient than a square grid for undertaking subsurface sampling;
- Test pits will be oriented north – south using a handheld compass for accuracy;
- Test pits will avoid areas clearly disturbed;
- The location of the north west corner of the first test pit will be recorded by GPS, and following pits will be tied into the transect using the distance and bearing technique. This method requires a 60m or 100m tape measure and compass to measure from the initial test pit. The tape is run out from the first pit and subsequent pits laid out at 20m intervals;
- Each test pit will have a flag placed in the north-west corner with the test square number in sequence and Easting and Northing of its location written on it, taken from the GPS coordinate for the initial pit and extrapolated based on the location of the pit in relation to the initial pit; and
- Each test pit will be planned to scale using 1mm grid paper (additional landscape features including trees, fence lines, creeks and contour lines will also be added).

## 3.4 Excavation Methodology

- Test pits will be 50 x 50cm;
- All test pits will be excavated in 5cm spits by hand using a shovel, mattock and trowel. Spit depths will be consistently checked with a hand tape measure to ensure accuracy of excavation depth. Once the first test pit has been excavated and an understanding of the stratigraphy has been obtained, following test pits for that transect may be excavated stratigraphically;
- Test pit excavation will cease on reaching basal clay, bedrock or a culturally sterile layer, or at the discretion of the archaeologist;
- Test pits may be combined to form 1m² squares by digging four contiguous 50 x 50 cm test pits to determine if artefact concentrations continue;
- If artefact concentrations warrant further expansion (5 or more artefacts) continuation of 1m² test pits into a 3m² open area may also be necessary. This is the maximum open area allowed for under the Code of Practice. If artefact concentrations are still high once a 3m² area has been excavated then this area would be prioritised for salvage under an AHIP;
- If cultural features (e.g. hearths, heat treatment pits, knapping floors) are identified during excavation, excavation with hand tools (e.g. mattock and shovel) will cease and continue with trowel only;
- Locations of identified features will be planned onto 1mm graph paper. X, Y and Z coordinates of individual artefacts from in-situ knapping floors will be recorded prior to removal (where possible) and continuation of excavation;
- The soil from each spit will be placed in 10L plastic buckets and transported to the sieving station;
- To ensure sufficient control of each spit excavated, a bag and tag will be written to accompany the buckets from each spit. The following information will be recorded on each bag and tag: site name, date, pit location (easting & northing) and name of excavator;
- All material from each test pit will be wet sieved through table sieves (1 x 1m) with a wire mesh aperture gauge of 3mm and 5mm depending on the soil matrix;
- All material recovered from the sieving process will be checked by a qualified archaeologist with experience in artefact identification prior to being placed into the spit bag; and
- Artefact counts will be recorded for each spit.

## 3.5 Recording

- Each spit will be recorded on a spit sheet with the following information:
    - site name;
    - date;
    - excavator name;
    - spit number;
    - spit depth;
    - pit location (easting & northing);
    - start levels & end levels;
    - bucket count and end total bucket count;
    - soil description;
    - description of disturbance;

- description of artefacts (material type & artefact type if in situ);
- in situ recording of artefacts where possible (xyz coordinates); and
- photograph details (from surface and of each spit to base).

- Each test pit will have a section planned on 1mm grid paper.

## 3.6 Artefacts

Any artefacts that are recovered from the test excavation will be analysed by an archaeologist experienced in artefact analysis and interpretation. At the conclusion of the project all artefacts will be reburied on site in accordance with Requirement 26 of the Code of Practice. Artefacts will be temporarily held at Apex Archaeology's office during the analysis and stored in a lockable cupboard. Once the artefacts are reburied the location will be recorded and provided to AHIMS. It is likely that reburial cannot occur until the development has been completed and a suitable location identified.

## 3.7 Cessation of Excavation

Excavations will cease upon reaching basal clay, bedrock, or at the discretion of the archaeologist (for example, if it becomes unsafe to continue excavation due to depth).

## 3.8 Backfill and Salvage Excavation

At the conclusion of the testing program, all test pits will either be backfilled (by collapsing the sides of the test pit in with a shovel or mattock, and/or filling with spoil or clean fill to return the pit to original ground level). If a test pit has yielded a significant artefact deposit requiring further salvage under an AHIP, then the pit will be securely bunded off with wooden stakes and bunding so that expansion (open area excavation) can be undertaken more easily once an AHIP has been issued.

## 4.0 INFORMATION SOUGHT

As required by Section 4.3 of the ACHCRs, Apex Archaeology sought the following information from all RAPs:

- feedback on the proposed methodology outlined above;
- any protocols that you would like adopted during this project to obtain and/or use cultural information;
- any Aboriginal objects of cultural significance and/or importance that you are aware of within the study area;
- any places of cultural significance and/or importance that you are aware of within the study area;
- your preference for the management of any archaeological material recovered during works (ie community repatriation, reburial on site, deposition with appropriate museum);
- guidance on the protocols, sensitivity, use and/or distribution of any cultural information that you provide Apex Archaeology; and
- whether you require any further information on the project.

Comments were accepted until CoB Friday 3rd November 2023. Comments were received from five of the RAPs and are attached as Appendix A.

## 5.0 REFERENCES

DECCW 2010. *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales.* DECCW, Sydney South.

DECCW 2010. *Due Diligence Code of Practice for the Protection of Aboriginal Objects in New South Wales*. DECCW, Sydney South.

DECCW 2010. *Aboriginal cultural heritage consultation requirements for proponents 2010*. DECCW, Sydney South.

OEH 2011. *Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW.* OEH, Sydney South.

Orton, C, 2000. *Cambridge Manuals in Archaeology: Sampling in Archaeology.* Cambridge University Press, Cambridge.

# Appendix A: RAP Correspondence

| | |
|---|---|
| **From:** | rebecca@apexarchaeology.com.au |
| **To:** | "undisclosed recipients" |
| **Bcc:** | admin@ungooroo.com.au; aga.services@hotmail.com; alierafrenchtrading@outlook.com; amandahickey@live.com.au; cacatua4service@tpg.com.au; cazadirect@live.com; ceo@hvabcorp.org.au; daveyhorton69@gmail.com; deckavale@hotmail.com; didgengunawalclan@yahoo.com.au; dontminemeay@gmail.com; ethan3trewlynn@gmail.com; gamila_roi@yahoo.com.au; Gunjeewongculturalheritage21@hotmail.com; konanggo_consultancy@hotmail.com; laurie.perry2020@outlook.com; leannekirkman1964@gmail.com; notifications@ntscorp.com.au; Pamelayoungg54@gmail.com; scott@yarrawalk.com.au; wallangan@outlook.com; widescope.group@live.com; wscott@ntscorp.com.au |
| **Subject:** | Hunter Valley Renewable Energy Zone (REZ) - Method and Project Information |
| **Date:** | Friday, 6 October 2023 5:01:41 PM |
| **Attachments:** | image001.png<br>23115 Hunter REZ Draft Information & Methodology.pdf |

---

Good afternoon,

Thank you for your registration of interest in the above project. Please find attached further information about the Hunter Valley REZ project, as well as the proposed methodology for the assessment.

Please provide any comments you may have by CoB Friday 3rd November 2023.

Please get in touch if you'd like to discuss the project further.

I hope you have a lovely weekend.

Kind regards,

APEX ARCHAEOLOGY

Rebecca Bryant
ARCHAEOLOGIST
0405 236 821
REBECCA@APEXARCHAEOLOGY.COM.AU
WWW.APEXARCHAEOLOGY.COM.AU

| | |
|---|---|
| **From:** | rebecca@apexarchaeology.com.au |
| **To:** | "CEO Wanaruah" |
| **Cc:** | jenni@apexarchaeology.com.au |
| **Subject:** | Hunter Valley Renewable Energy Zone (REZ) - Method and Project Information |
| **Date:** | Friday, 6 October 2023 5:15:25 PM |
| **Attachments:** | image001.png<br>23115 Hunter REZ Draft Information & Methodology.pdf |

Good afternoon De-anne,

Thank you for your registration of interest in the above project. Please find attached further information about the Hunter Valley REZ project, as well as the proposed methodology for the assessment.

Please provide any comments you may have by CoB Friday 3rd November 2023.

Please get in touch if you'd like to discuss the project further.

I hope you have a lovely weekend.

Kind regards,

APEX ARCHAEOLOGY

Rebecca Bryant
ARCHAEOLOGIST

0405 236 821
REBECCA@APEXARCHAEOLOGY.COM.AU
WWW.APEXARCHAEOLOGY.COM.AU

**From:** rebecca@apexarchaeology.com.au
**To:** "Corrroboree Aboriginal Corporation"
**Subject:** RE: EOI - Hunter Valley region, NSW -
**Date:** Monday, 16 October 2023 12:18:04 PM
**Attachments:** 23115 Hunter REZ Draft Information & Methodology.pdf

Hi Marilyn,

I am sorry to hear that you have undergone surgery. I hope you are beginning to feel better.

I have registered Corroboree Aboriginal Corporation for the Hunter Valley project and have attached the information and methodology document for your review and comment. Unfortunately, I will be unable to extend the date that responses are due back, which is 5pm Friday, 3rd November 2023. As requested, I also will not forward your details to the LALC.

Warm regards,

Rebecca

---

**From:** Corrroboree Aboriginal Corporation <corroboreecorp@bigpond.com>
**Sent:** Saturday, October 14, 2023 7:15 PM
**To:** rebecca@apexarchaeology.com.au
**Subject:** Re: EOI - Hunter Valley region, NSW -

Hi Rebecca
Sorry for delay of registering as I've been unwell due to major surgery; as such admin was not able be completed. Now recovering.

We are registering our organisation as we at Corroboree Aboriginal Corporation are identified First Nations people who hold cultural knowledge relevant to this project area and we wish to register an interest in the process of community consultation. As part of our registering we look forward to the opportunity to provide culturally appropriate information and to comment on the cultural heritage significance of Aboriginal Culture and heritage We are registering Corroboree Aboriginal Corporation in a full capacity. We have worked on a vast number of projects as Cultural Heritage Officers in the project area. We are currently involved on many projects in the subject area. My family and other family members have lived in the area and family currently reside in the surrounding areas. We are registering in a full capacity. We are Aboriginal people who are culturally & heritage aware. We have the necessary ability, experience, skills, insight and the knowledge to identify artefacts on field work. And as Aboriginal People we connect thru the land, thru our Ancestors and our Heritage. Therefore we are able participate on all levels. We have worked with many archaeologists across a broad landscape. We have consulted with most archeological companies over many years on projects. We have all the relevant insurances and safety gear. We are all fit, capable and adapt to a vast landscape.
Contact is preferred via email: corroboreecorp@outlook.com The contact number, email and contact person is also listed in the signature.
Please do not disclose any of our details to LALC. We have responded for inclusion, to participate on all levels. Thanks.

Kind regards
Marilyn Carroll-Johnson
Director
Corroboree Aboriginal Corporation
Mob: 0415911159
E: corroboreecorp@outlook.com

*We respectfully acknowledge the Traditional Owners of the lands upon which we work and pay our deep respect to Elders past, present and emerging.*

On 21 Sep 2023, at 2:46 pm, rebecca@apexarchaeology.com.au wrote:

Good afternoon,

Your details have been provided by Heritage NSW as an Aboriginal person or organisation who might like to take part in consultation for a project within the Hunter Valley region, NSW.

Please find attached a letter with more information and inviting you to register your interest by the close of business, Thursday 5th October 2023.

Please get in touch if you have any questions. I look forward to hearing from you.

Kind regards,

f

**From:** rebecca@apexarchaeology.com.au
**To:** "Kevin Duncan"
**Subject:** RE: Hunter Valley region, NSW - Invitation to register
**Date:** Monday, 9 October 2023 4:24:51 PM
**Attachments:** 23115 Hunter REZ Draft Information & Methodology.pdf

---

Hi Kevin,

As discussed on the phone and following on from the email I sent you this morning, I have registered you for the Hunter Valley REZ project.
I have attached a copy of the draft information and methodology for your review.

Could you please provide any comments and/or recommendations by Friday 3rd November 2023.

Thank you.

Warm regards,

Rebecca

---

**From:** rebecca@apexarchaeology.com.au <rebecca@apexarchaeology.com.au>
**Sent:** Monday, October 9, 2023 11:20 AM
**To:** 'Kevin Duncan' <kevin.duncan@bigpond.com>
**Subject:** RE: Hunter Valley region, NSW - Invitation to register

Hi Kevin,

Thank you for your email. The registration date for this project actually closed last week, Thursday 5th October, as noted in your email thread. However, I can include you as a late registration and forward you a copy of the information and methodology document. The response to this document is due back on Friday 3rd November and we will not be able to increase the deadline for this response date.

Could you please advise if this is acceptable to you. If so, I will forward you a copy of the information methodology document today for your review and comment.

Warm regards,

Rebecca

---

**From:** Kevin Duncan <kevin.duncan@bigpond.com>
**Sent:** Monday, October 9, 2023 11:03 AM
**To:** rebecca@apexarchaeology.com.au
**Subject:** Re: Hunter Valley region, NSW - Invitation to register

Yaama, Rebecca please include my cultural registration for the Hunter Valley Project , Thank you , Kevin Duncan

On 21 Sep 2023, at 2:46 pm, rebecca@apexarchaeology.com.au wrote:

Good afternoon,

Your details have been provided by Heritage NSW as an Aboriginal person or organisation who might like to take part in consultation for a project within the Hunter Valley region, NSW.

Please find attached a letter with more information and inviting you to register your interest by the close of business, Thursday 5th October 2023.

Please get in touch if you have any questions. I look forward to hearing from you.

Kind regards,

f

<image001.png>

<23115 Hunter REZ - Invitation to register interest.pdf>

| | |
|---|---|
| **From:** | Carolyn .H |
| **To:** | rebecca@apexarchaeology.com.au |
| **Subject:** | Re: Hunter Valley Renewable Energy Zone (REZ) - Method and Project Information |
| **Date:** | Thursday, 19 October 2023 11:56:38 AM |
| **Attachments:** | image001.png<br>Outlook-pfipg5du.png<br>A1.WC2024.pdf<br>A1.PL2024.pdf |

---


**Contact:** **Carolyn Hickey**
**Mobile:** **0411650057**
**Email:** **Cazadirect@live.com**
**Address:** **10 Marie Pitt Place, Glenmore Park, NSW 2745**
**ABN:** **: 20 616 970 327**


Hi,
I have reviewed the attachment and support the document detailing the project information and the assessment methodology.
A1 would like to be involved in the up coming field work.
Please feel free to publish my name, and response but not the email

Please feel free to contact me on details supplied

Kind Regards,
Carolyn Hickey

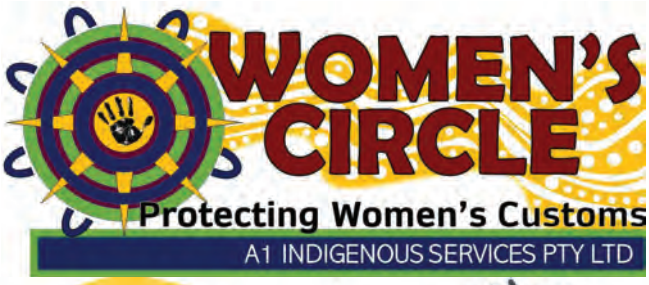
**When Selecting Groups for Engagement;**
Please consider that **A1 INDIGENOUS SERVICES** is a member of the **NSW INDIGENOUS CHAMBER OF COMMERCE.**
We carry the NSWICC Assured logo showing that **A1 Indigenous Services** has met National Policy requirements as upheld by the First Australians Chamber of Commerce and Industry (FACCI) for being identified as a **100% First Nations Owned Indigenous Business** That has demonstrate compliance with Government and Industry Regulators.

**A1 INDIGENOUS SERVICES is now a member of the NSW INDIGENOUS CHAMBER OF COMMERCE**

A business or enterprise carrying the NSWICC Assured logo has met National Policy requirements as upheld by the First Australians Chamber of Commerce and Industry

(FACCI) for being identified as a First Nations Business Owner or Entrepreneur and the business must demonstrate compliance with Government and Industry Regulators. **(Certificate attached)** A certificate confirms that the Enterprise listed above has met all requirements of the NSWICC's Assured Program , operating as a100% Aboriginal Owned, Operated and Controlled Business. The NSW Indigenous Chamber of Commerce (NSWICC) is the Peak body for Aboriginal Business in New South Wales and a member of the First Australians Chamber of Commerce and Industry (FACCI)

**A1 Indigenous Services is 100%, Indigenous Owned Australian Company**
**which offers a range of services to the construction industry.**
**It is our mission to commit to an innovative approach to a better future for Indigenous employment and community.**
**While improving ways to close the gap in Aboriginal participation in the construction Industry.**
**Building strength in aboriginal communities and our Indigenous labour force.**



---

**From:** rebecca@apexarchaeology.com.au <rebecca@apexarchaeology.com.au>

**Sent:** Friday, 6 October 2023 5:00 PM
**To:** 'undisclosed recipients' <jenni@apexarchaeology.com.au>
**Subject:** Hunter Valley Renewable Energy Zone (REZ) - Method and Project Information

Good afternoon,

Thank you for your registration of interest in the above project. Please find attached further information about the Hunter Valley REZ project, as well as the proposed methodology for the assessment.

Please provide any comments you may have by CoB Friday 3rd November 2023.

Please get in touch if you'd like to discuss the project further.

I hope you have a lovely weekend.

Kind regards,

APEX ARCHAEOLOGY

Rebecca Bryant
ARCHAEOLOGIST

0405 236 821
REBECCA@APEXARCHAEOLOGY.COM.AU
WWW.APEXARCHAEOLOGY.COM.AU

**From:** Amanda De Zwart
**To:** rebecca@apexarchaeology.com.au
**Subject:** Re: Hunter Valley region, NSW - Invitation to register
**Date:** Thursday, 19 October 2023 11:57:00 AM

---

Hi Rebecca

Thank you for the email AHCS supports and is happy with the methodology

AHCS would like to Formally register a interest in all field works for this project

If you need anything else please don't hesitate to contact me

Have a great day
Amanda AHCS

Get Outlook for Android

---

**From:** rebecca@apexarchaeology.com.au <rebecca@apexarchaeology.com.au>
**Sent:** Friday, October 13, 2023 12:38:46 PM
**To:** 'Amanda De Zwart' <Amandahickey@live.com.au>
**Subject:** RE: Hunter Valley region, NSW - Invitation to register

Hi Amanda,

Thank you for your email and additional information. I have registered you for the project in the Hunter Valley and have attached the information and methodology for your review and comment. This was sent to all the RAPs the day after registrations closed on the 5th October 2023.

Please be aware, as per previous advice I have provided when you have registered late, I cannot extend the deadline for the response, which is 5pm Friday, 3rd November 2023.

I hope you a good weekend.

Warm regards,
Rebecca

---

**From:** Amanda De Zwart <Amandahickey@live.com.au>
**Sent:** Friday, October 13, 2023 8:31 AM
**To:** rebecca@apexarchaeology.com.au
**Subject:** Hunter Valley region, NSW - Invitation to register

Hi Rebecca

Thank you for the email.
My apologies for not getting
back to you sooner my emails have been down
AHCS would like to Formally register a interest in this project. AHCS Holds strong cultural knowledge to the land and holds Cultural knowledge to determine Aboriginal heritage and artefacts from my Wonnarua country.

If you need anything else please don't hesitate to contact me
Have a great day

Amanda Hickey AHCS

| | |
|---|---|
| **From:** | Robert Young |
| **To:** | rebecca@apexarchaeology.com.au; "undisclosed recipients" |
| **Cc:** | Pamela Young |
| **Subject:** | Re: Hunter Valley Renewable Energy Zone (REZ) - Method and Project Information |
| **Date:** | Sunday, 8 October 2023 12:05:13 PM |
| **Attachments:** | image001.png<br>23115 Hunter REZ Draft Information & Methodology.pdf |

Dear Rebecca,

I have read the proposed methodology it is concise and informative, and I agree with the recommendations proposed.

Yours In Culture,

**Robert Young**
Konanggo Aboriginal Cultural Heritage Services
2/42 Crawford Road, Brighton Le Sands 2216 NSW
Email: konanggo_consultancy@hotmail.com
Phone: 0450497270

---

**From:** rebecca@apexarchaeology.com.au <rebecca@apexarchaeology.com.au>
**Sent:** Friday, 6 October 2023 5:00 PM
**To:** 'undisclosed recipients' <jenni@apexarchaeology.com.au>
**Subject:** Hunter Valley Renewable Energy Zone (REZ) - Method and Project Information

Good afternoon,

Thank you for your registration of interest in the above project. Please find attached further information about the Hunter Valley REZ project, as well as the proposed methodology for the assessment.

Please provide any comments you may have by CoB Friday 3rd November 2023.

Please get in touch if you'd like to discuss the project further.

I hope you have a lovely weekend.

Kind regards,

APEX ARCHAEOLOGY
Rebecca Bryant
ARCHAEOLOGIST
0405 236 821
REBECCA@APEXARCHAEOLOGY.COM.AU
WWW.APEXARCHAEOLOGY.COM.AU

**From:** Ethan Trewlynn
**To:** rebecca@apexarchaeology.com.au
**Subject:** Re: Hunter Valley Renewable Energy Zone (REZ) - Method and Project Information
**Date:** Monday, 9 October 2023 10:54:18 AM
**Attachments:** image001.png

---

Good morning Rebecca,
Ethan Trewlynn of Long Gully Cultural Services

I read over everything and I'm happy with everything on here and if anyone of us raps were wanting to alter the methods I'm happy to do so.

Thank you for your email Rebecca,
I hope you had a lovely weekend.
Kind regards Ethan Trewlynn of Long Gully Cultural Services

On Fri, 6 Oct 2023, 5:01 pm , <rebecca@apexarchaeology.com.au> wrote:

> Good afternoon,
>
> Thank you for your registration of interest in the above project. Please find attached further information about the Hunter Valley REZ project, as well as the proposed methodology for the assessment.
>
> Please provide any comments you may have by CoB Friday 3rd November 2023.
>
> Please get in touch if you'd like to discuss the project further.
>
> I hope you have a lovely weekend.
>
> Kind regards,
>
>

| | |
|---|---|
| **From:** | Lawrence Perry |
| **To:** | rebecca@apexarchaeology.com.au |
| **Subject:** | RE: Hunter Valley Renewable Energy Zone (REZ) - Method and Project Information |
| **Date:** | Monday, 9 October 2023 9:17:35 AM |
| **Attachments:** | image002.png<br>image004.png |

Hi Rebecca

Thank you

Cheers

*Laurie Perry*
**Chief Executive Officer**
**Wonnarua Nation Aboriginal Corporation**
**T** 02 6571 8595 **M** 0412 593 020 **E** laurie.perry2020@outlook.com
Ground Floor 254 John St Singleton NSW 2330
PO BOX 3066 Singleton 2330
W www.wonnarua.org.au
E enquiries@wonnarua.org.au

We acknowledge the Traditional Custodians of the Land I work on and pay my respect to Elders both past, present and future.

---

**From:** rebecca@apexarchaeology.com.au
**Sent:** Friday, October 6, 2023 5:00 PM
**To:** 'undisclosed recipients' <jenni@apexarchaeology.com.au>
**Subject:** Hunter Valley Renewable Energy Zone (REZ) - Method and Project Information

Good afternoon,

Thank you for your registration of interest in the above project. Please find attached further information about the Hunter Valley REZ project, as well as the proposed methodology for the assessment.

Please provide any comments you may have by CoB Friday 3rd November 2023.

Please get in touch if you'd like to discuss the project further.

I hope you have a lovely weekend.

Kind regards,

HUNTER VALLEY RENEWABLE ENERGY ZONE (REZ), NSW

# TEST EXCAVATION METHODOLOGY

LGA: Cessnock, Singleton, and Muswellbrook

February 2025

APEX ARCHAEOLOGY

PO Box 236, Nowra, NSW 2541 | heritage@apexarchaeology.com.au | www.apexarchaeology.com.au

ABN 56 625 618 993

Apex Archaeology would like to acknowledge the Aboriginal people who are the traditional custodians of the land in which this project is located. Apex Archaeology would also like to pay respect to Elders both past and present.

## Document Control

The following register documents the development and issue of the document entitled 'Hunter Valley Renewable Energy Zone (REZ), NSW' – Test Excavation Methodology', prepared by Apex Archaeology in accordance with its quality management system.

| Revision | Prepared by | Reviewed by | Comment | Issue Date |
|---|---|---|---|---|
| 1 – Draft | Leigh Bate | Jenni Bate | Issue for RAPs | 6 January 2025 |
| 2 – Final | Jenni Bate | RAPs | Issue of final | 3 February 2025 |

## GLOSSARY OF TERMS

| | |
|---|---|
| **Aboriginal Object** | An object relating to the Aboriginal habitation of NSW (as defined in the NPW Act), which may comprise a deposit, object or material evidence, including Aboriginal human remains. |
| **ACHA** | Aboriginal Cultural Heritage Assessment |
| **ACHCRs** | The DECCW April 2010 *Aboriginal cultural heritage consultation requirements for proponents 2010* |
| **AHIMS** | Aboriginal Heritage Information Management System maintained by Heritage NSW, detailing known and registered Aboriginal archaeological sites within NSW |
| **AHIP** | Aboriginal Heritage Impact Permit |
| **BP** | Before Present, defined as before 1 January 1950. |
| **Code of Practice** | The DECCW September 2010 *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales* |
| **Consultation** | Aboriginal community consultation in accordance with the DECCW April 2010 *Aboriginal cultural heritage consultation requirements for proponents 2010.* Consultation is not a required step in a due diligence assessment; however, it is strongly encouraged to consult with the relevant Local Aboriginal Land Council and to determine if there are any Aboriginal owners, registered native title claimants or holders, or any registered Indigenous Land Use Agreements in place for the subject land |
| **DA** | Development Application |
| **DCCEEW** | Department of Climate Change, Energy, the Environment and Water |
| **DECCW** | The Department of Environment, Climate Change and Water – now Heritage NSW |
| **Disturbed Land** | If land has been subject to previous human activity which has changed the land's surface and are clear and observable, then that land is considered to be disturbed |
| **Due Diligence** | Taking reasonable and practical steps to determine the potential for an activity to harm Aboriginal objects under the *National Parks and Wildlife Act 1974* and whether an application for an AHIP is required prior to commencement of any site works, and determining the steps to be taken to avoid harm |
| **Due Diligence Code of Practice** | The DECCW Sept 2010 *Due Diligence Code of Practice for the Protection of Aboriginal Objects in New South Wales* |
| **GIS** | Geographical Information Systems |
| **GSV** | Ground Surface Visibility |
| **Heritage NSW** | Heritage NSW in the Department of Climate Change, Energy, the Environment and Water, responsible for heritage matters within NSW |
| **Harm** | To destroy, deface or damage an Aboriginal object; to move an object from land on which it is situated, or to cause or permit an object to be harmed |
| **LALC** | Local Aboriginal Land Council |
| **LGA** | Local Government Area |
| **NPW Act** | NSW *National Parks and Wildlife Act* 1974 |
| **OEH** | Office of Environment and Heritage – now Heritage NSW |
| **RAPs** | Registered Aboriginal Parties |

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# 1.0 INTRODUCTION

Ausgrid has engaged Apex Archaeology to assist in preparing an Aboriginal Cultural Heritage Assessment (ACHA) for a proposed infrastructure project to modernise the electricity system within the Hunter Valley, NSW (Figure 1). The project will be undertaken in two stages and includes areas within Cessnock, Singleton and Muswellbrook Local Government Areas (LGAs).

A process of Aboriginal community consultation in accordance with the Aboriginal *cultural heritage consultation requirements for proponents 2010* (the ACHCRs) has been initiated by Apex Archaeology.

The following document provides updated information about the project, and outlines the detailed methodology for test excavation that Apex Archaeology will be utilising for this project, along with the proposed heritage management activities. It has been developed to address requirements of Section 4.3 in the ACHCRs. The assessment would also be undertaken in accordance with the *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales* (the Code of Practice).

This methodology should be considered in addition to the methodology provided to all RAPs on 6 October 2023.

## 1.1 STUDY AREA AND PROJECT BRIEF

The study areas are located within the Cessnock, Singleton and Muswellbrook LGAs, and are also within the boundaries of the Wanaruah and Mindaribba Local Aboriginal Land Councils (LALCs). There are several components of the proposed works which will encompass the construction of:

- Rebuilding sub-transmission lines, including; pole replacements, access track construction and vegetation clearing. These lines will cover a distance of approximately 80 km from Lake Liddell to Kurri Kurri; and 4km between Ausgrid's Muswellbrook subtransmission station to Transgrid's Muswellbrook transmission substation.
- Construction of two fibre-optic underground cables from the northern side of Lake Liddell to Muswellbrook BSP, which will be constructed mostly within Ausgrid's existing overhead powerline easements and approximately 15km in length.
- Upgrades of two sub-transmission stations at Singleton and Kurri Kurri.
- Construction of two new subtransmission switching stations, one on the northern side of Lake Liddell and the other on the southern side of Ausgrid's Muswellbrook subtransmission substation.

The field survey was undertaken over two weeks from the 13th November to 24th November 2023 and was completed in accordance with the previously reviewed methodology as provided to all RAPs in October 2023.

The study area was surveyed in one linear transect along the entirety of the proposed route from the southern end (Kurri Kurri STS) to the northern end

(Muswellbrook STS). Areas of extreme disturbance (ie road verge location along the Hunter Expressway, New England Highway and Mitchell Line of Road) were not surveyed by pedestrian transect but rather driven as vehicular reconnaissance. This was agreed with all members of the survey team for each of these sections.

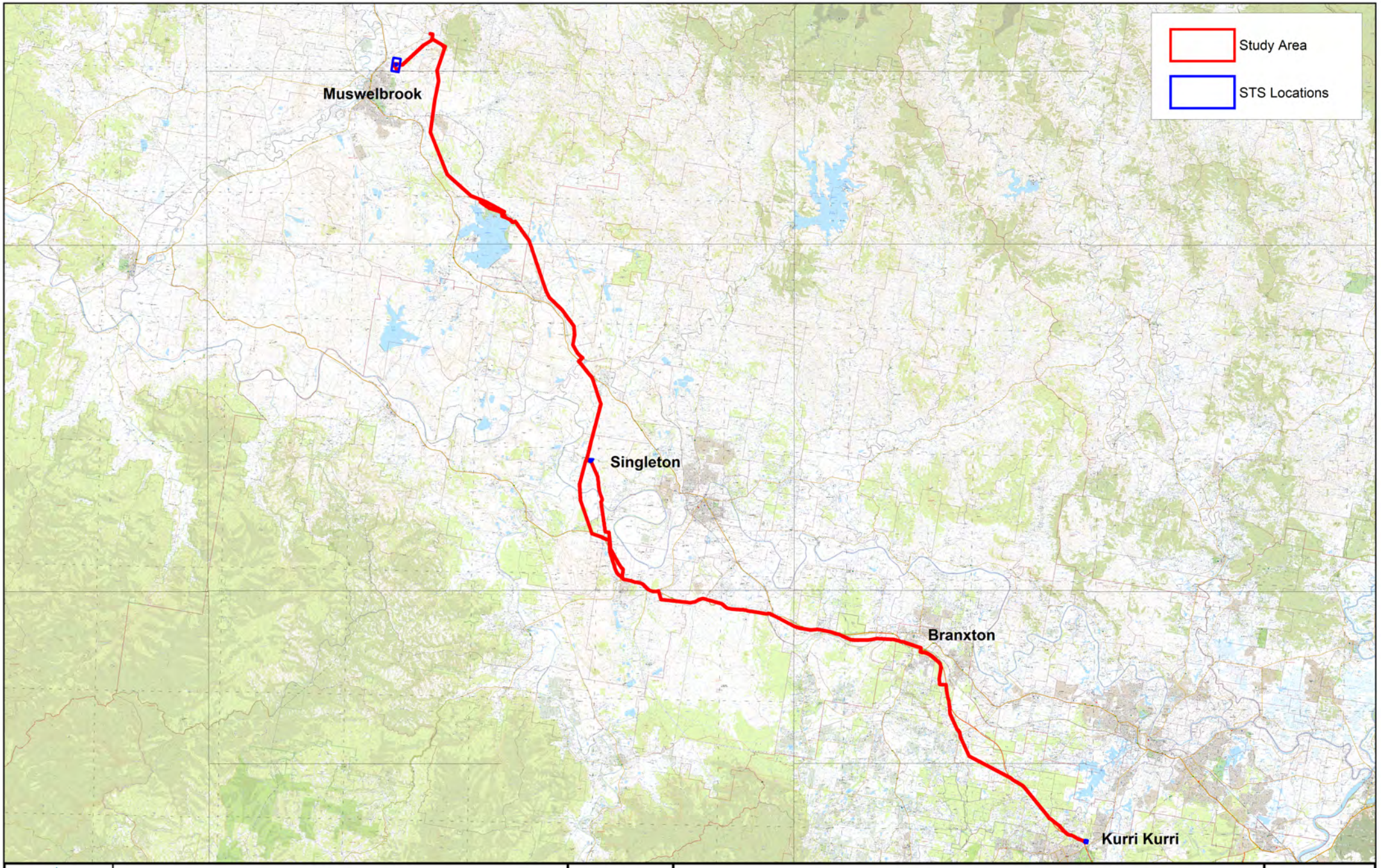
- 84 previously recorded AHIMS sites are located within a 50m radius of the proposed transmission line route.
- 26 newly identified sites were located within a 50m radius of the proposed transmission line route.
- Nine zones of archaeological sensitivity were identified, associated with previously or newly identified sites.

Of the nine zones of archaeological sensitivity identified during the survey, the following six areas cannot be avoided by the proposed works and as such further investigation in the form of test excavation will be required to understand the nature and extent of this potential:

- Moderate Zone of Potential (AMBS 2009)
- Black Creek
- Jerrys Plain
- Knodlers Lane 1
- Knodlers Lane 2
- Camberwell (MD-AS-01)

The locations of each of these areas of sensitivity are shown on the following figures.

However, at Knodlers Lane 2, nine flaked glass artefacts were identified on the ground surface, interspersed with silcrete and IMSTC stone artefacts. This area is considered to have subsurface archaeological potential, but as flaked glass items were identified, test excavation under the Code of Practice cannot be undertaken at this site. Any work at this site will require an AHIP and management recommendations for this site will be outlined in the ACHAR prepared for the project. As such, no test excavation is proposed at this location at this time.




PO Box 236
NOWRA
NEW SOUTH WALES 2541

0 16 32

kilometres

Projection:
MGA Zone 56 (GDA 94)
Base Map:
NSW Topographic Maps
Spatial Services
Image Date: 2022
Final - Version 1

Figure 1: Study area within its regional context.

N

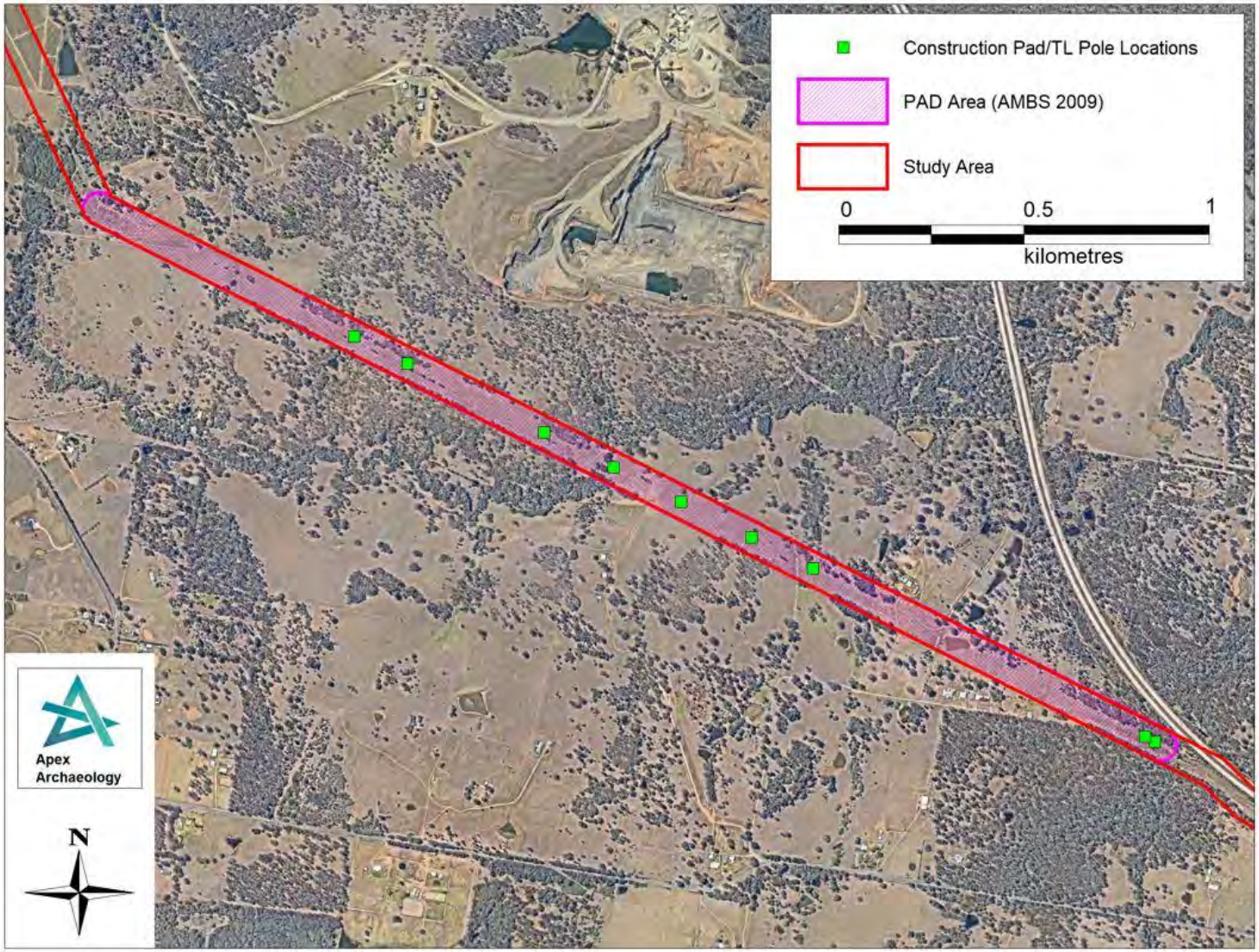



Figure 2: Moderate Zone of Potential (AMBS 2009)

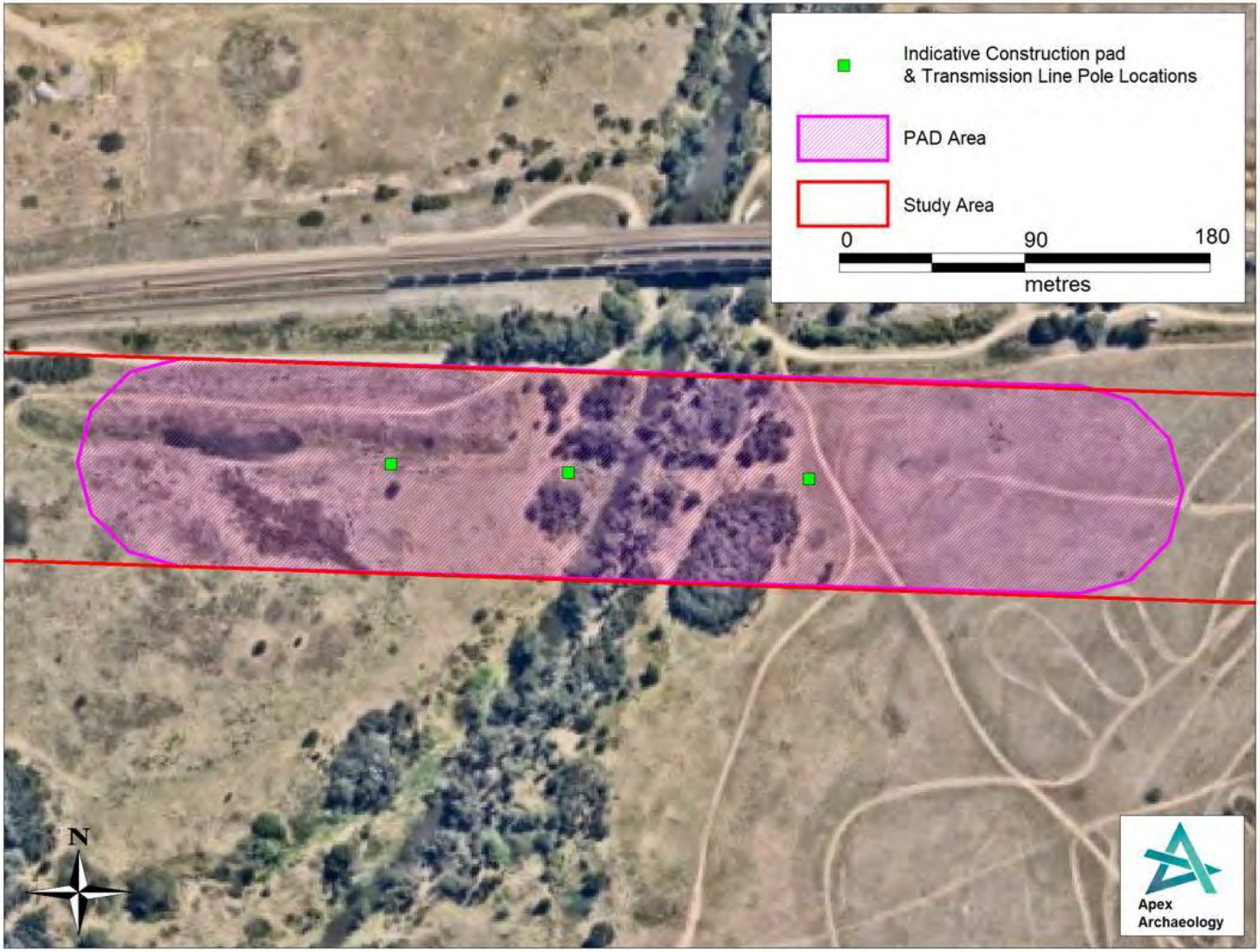



Figure 3: Black Creek

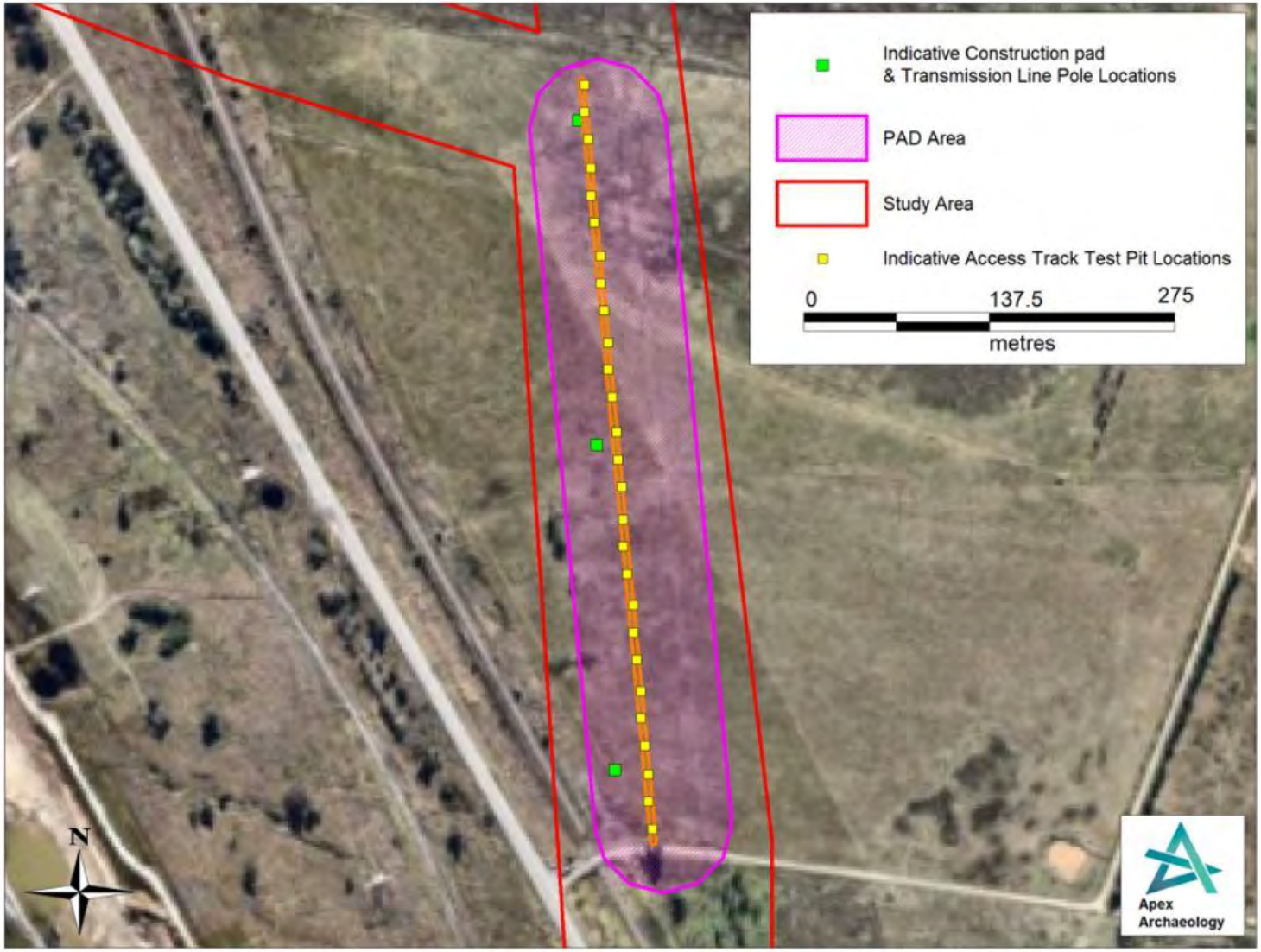



Figure 4: Jerrys Plain

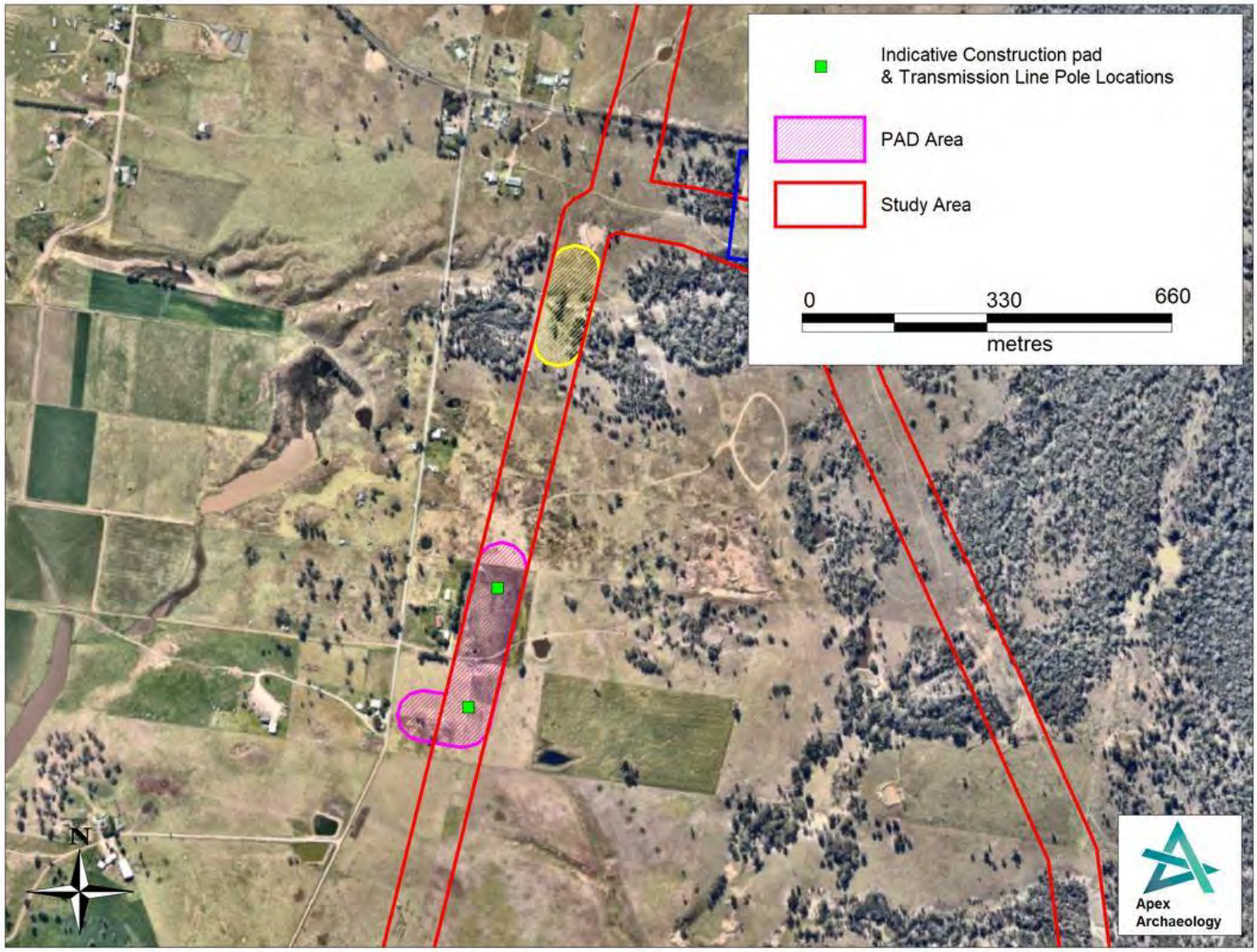



Figure 5: Knodlers Lane

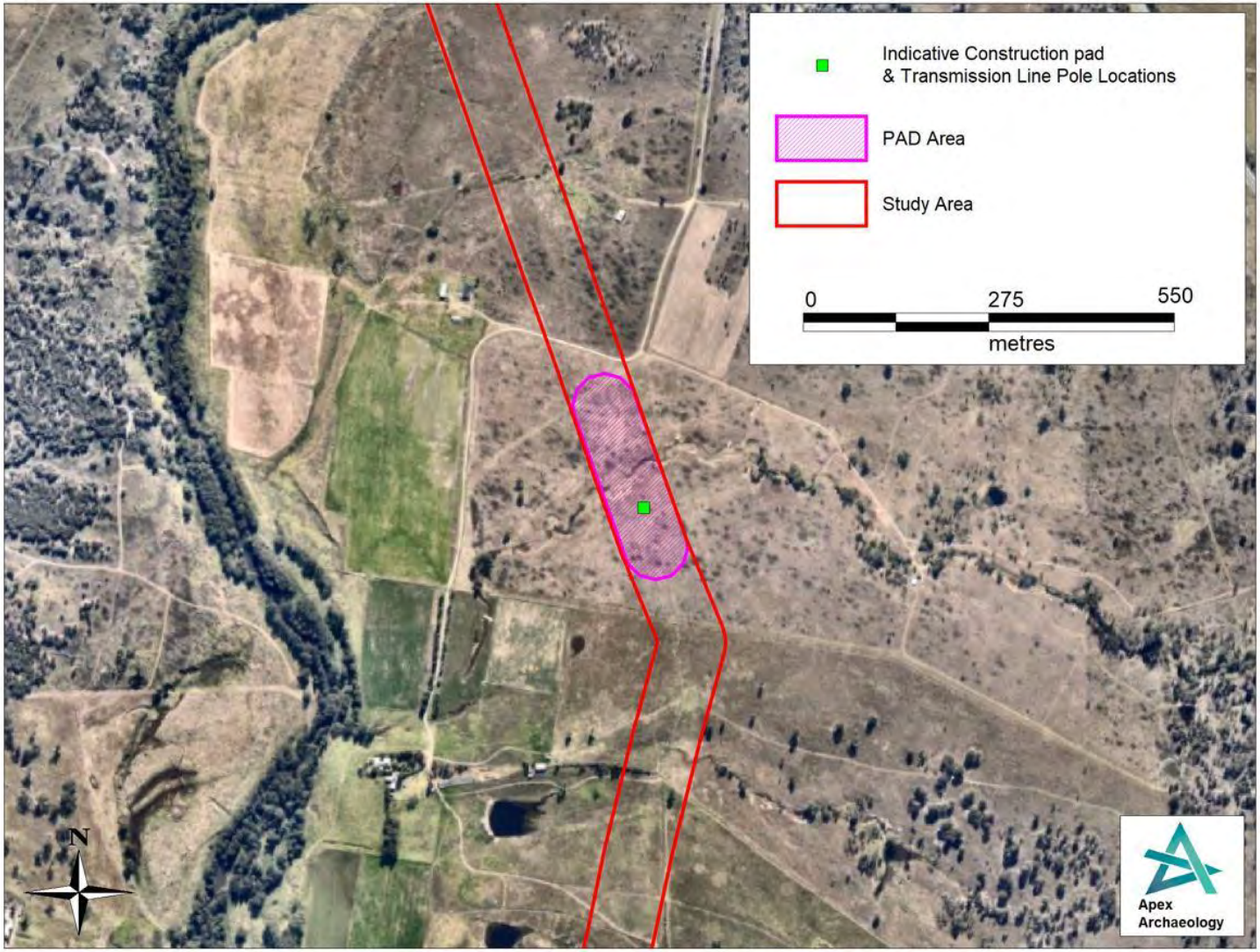



Figure 6: Camberwell (MD-AS-01)

## 2.0 Detailed Methodology

Apex Archaeology has prepared the following updated methodology for preparation of test pit locations, manual excavation of test pits, additional salvage and recording of test pits.

### 2.1 Need for Test Excavation

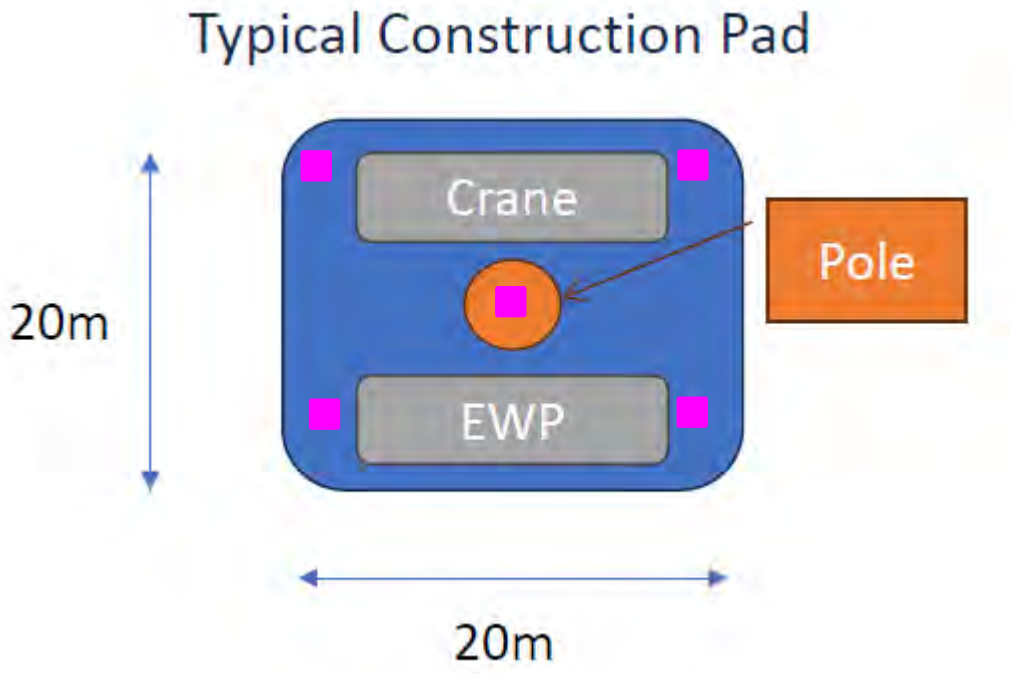
As discussed above, the site inspection completed as part of the ACHA process identified six areas of PAD which require further investigation to determine the nature and extent of the PAD within the areas. As such, the following sections outline the methodology that will be followed for test excavation within the PAD areas shown in Figures 2 to 6.

### 2.2 Test Pit Layout

Test excavations are proposed to be undertaken in areas identified during the survey as having potential for sub surface archaeological deposits (see Figures 2 to 6).

The following methodology would be implemented during the completion of test excavations:

- Test pits will be placed at proposed transmission line pole locations within areas of sensitivity as shown in Figures 2 to 6 and within construction PAD locations adjacent to the proposed pole locations, in accordance with the below layout:




Indicative Test Pit locations ■

- A minimum of five 50 x 50cm test pits will be excavated at each transmission line pole location, as shown in the above layout;

- One transect will be placed within the alignment of a proposed access track location within the Jerry's Plain area of sensitivity with pits at 10m intervals. An approximate total of 30 test pits would be placed within this area along one linear transect;
- Test pits will be oriented north – south using a handheld compass for accuracy;
- Test pits will avoid areas clearly disturbed;
- The location of the north west corner of the first test pit will be recorded by GPS, and following pits will be tied into the transect using the distance and bearing technique. This method requires a 60m or 100m tape measure and compass to measure from the initial test pit. The tape is run out from the first pit and subsequent pits laid out at 20m intervals; and
- Each test pit will have a flag placed in the north-west corner with the test square number in sequence and Easting and Northing of its location written on it, taken from the GPS coordinate for the initial pit and extrapolated based on the location of the pit in relation to the initial pit.

## 2.3 Excavation Methodology

- Test pits will be 50 x 50cm;
- All test pits will be excavated in 5cm spits by hand using a shovel, mattock and trowel. Spit depths will be consistently checked with a hand tape measure to ensure accuracy of excavation depth. Once the first test pit has been excavated and an understanding of the stratigraphy has been obtained, following test pits for that transect may be excavated stratigraphically;
- Test pit excavation will cease on reaching basal clay, bedrock or a culturally sterile layer, or at the discretion of the archaeologist;
- Test pits may be combined to form 1m² squares by digging four contiguous 50 x 50 cm test pits to determine if artefact concentrations continue;
- If artefact concentrations warrant further expansion (5 or more artefacts in one 50 x 50 cm test pit) continuation of 1m² test pits into a 3m² open area may also be necessary. This is the maximum open area allowed for under the Code of Practice. If artefact concentrations are still high once a 3m² area has been excavated then this area would be prioritised for salvage under an AHIP;
- If cultural features (e.g. hearths, heat treatment pits, knapping floors) are identified during excavation, excavation with hand tools (e.g. mattock and shovel) will cease and continue with trowel only;
- Locations of identified features will be planned onto 1mm graph paper. X, Y and Z coordinates of individual artefacts from in-situ knapping floors will be recorded prior to removal (where possible) and continuation of excavation;
- The soil from each spit will be placed in 10L plastic buckets and transported to the sieving station;
- To ensure sufficient control of each spit excavated, a bag and tag will be written to accompany the buckets from each spit. The following information will be recorded on each bag and tag: site name, date, pit location (easting & northing) and name of excavator;
- All material from each test pit will be either dry sieved or wet sieved through table sieves (1 x 1m) with a wire mesh aperture gauge of 3mm and 5mm depending on the soil matrix and availability of water;

- All material recovered from the sieving process will be checked by a qualified archaeologist with experience in artefact identification prior to being placed into the spit bag; and
- Artefact counts will be recorded for each spit.

## 2.4 Recording

- Each spit will be recorded on a spit sheet with the following information:
  - site name;
  - date;
  - excavator name;
  - spit number;
  - spit depth;
  - pit location (easting & northing);
  - start levels & end levels;
  - bucket count and end total bucket count;
  - soil description;
  - description of disturbance;
  - description of artefacts (material type & artefact type if in situ);
  - in situ recording of artefacts where possible (xyz coordinates); and
  - photograph details (from surface and of each spit to base).
- Each test pit will have a section photographed with appropriate scale.

## 2.5 Artefacts

Any artefacts that are recovered from the test excavation will be analysed by an archaeologist experienced in artefact analysis and interpretation. At the conclusion of the project all artefacts will be reburied on site in accordance with Requirement 26 of the Code of Practice. Artefacts will be temporarily held at Apex Archaeology's office during the analysis and stored in a lockable cupboard. Once the artefacts are reburied the location will be recorded and provided to AHIMS. It is likely that reburial cannot occur until the development has been completed and a suitable location identified.

## 2.6 Cessation of Excavation

Excavations will cease upon reaching basal clay, bedrock, or at the discretion of the archaeologist (for example, if it becomes unsafe to continue excavation due to depth).

## 2.7 Backfill and Salvage Excavation

At the conclusion of the testing program, all test pits will either be backfilled (by collapsing the sides of the test pit in with a shovel or mattock, and/or filling with spoil or clean fill to return the pit to original ground level). If a test pit has yielded a significant artefact deposit requiring further salvage under an AHIP, then the pit will be securely bunded off with wooden stakes and bunding so that expansion (open area excavation) can be undertaken more easily once an AHIP has been issued.

## 3.0 INFORMATION SOUGHT

As required by Section 4.3 of the ACHCRs, Apex Archaeology sought feedback from all RAPs in relation to the updated test excavation methodology.

Comments were accepted until CoB Monday 3rd February 2025. Comments were received from four separate RAPs and all were supportive.

Amanda Hickey from AHCS stated "AHCS support the test excavation methodology and would like to be involved in any test excavations to come up in the future" which was noted with thanks.

Carolyn Hickey from A1 Indigenous Services noted "I have reviewed the document and fully support the Information and Methodology. I would like to be included in all meetings, reports, sharing of cultural information, and fieldwork" which was noted with thanks.

Laurie Perry of Wonnaua Nation Aboriginal Corporation stated "Thank you I will get back to you, just had a quick look, looks okay to me" and subsequently noted "no further comments all good" which was noted with thanks.

Maree Waugh of Wallangan stated "Wallangan Cultural Services is happy with the methodology" which was noted with thanks.

No further comments were received from any of the other RAPs regarding the updated methodology and no amendments to the methodology were made as a result of the comments received.

## 4.0 REFERENCES

DECCW 2010. *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales.* DECCW, Sydney South.

DECCW 2010. *Due Diligence Code of Practice for the Protection of Aboriginal Objects in New South Wales*. DECCW, Sydney South.

DECCW 2010. *Aboriginal cultural heritage consultation requirements for proponents 2010*. DECCW, Sydney South.

OEH 2011. *Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW.* OEH, Sydney South.

Orton, C, 2000. *Cambridge Manuals in Archaeology: Sampling in Archaeology.* Cambridge University Press, Cambridge.

# Appendix A: RAP Correspondence

| | |
|---|---|
| **From:** | jenni@apexarchaeology.com.au |
| **To:** | "Undisclosed Recipients" |
| **Bcc:** | admin@ungooroo.com.au; aga.services@hotmail.com; alierafrenchtrading@outlook.com; amandahickey@live.com.au; cacatua4service@tpg.com.au; cazadirect@live.com; ceo@hvabcorp.org.au; ceo@wanaruahlandcouncil.com.au; corroboreecorp@bigpond.com; corroboreecorp@outlook.com; daveyhorton69@gmail.com; deckavale@hotmail.com; didgengunawalclan@yahoo.com.au; dontminemeay@gmail.com; ethan3trewlynn@gmail.com; gamila_roi@yahoo.com.au; gunjeewongculturalheritage21@hotmail.com; kevin.duncan@bigpond.com; konanggo_consultancy@hotmail.com; laurie.perry2020@outlook.com; leannekirkman1964@gmail.com; notifications@ntscorp.com.au; pamelayoungg54@gmail.com; scott@yarrawalk.com.au; wallangan@outlook.com; widescope.group@live.com; wscott@ntscorp.com.au |
| **Subject:** | Hunter REZ - updated methodology |
| **Date:** | Monday, 6 January 2025 3:39:05 PM |
| **Attachments:** | 23115 Hunter REZ Draft Test Excavation Methodology.pdf |

Good afternoon,

Thanks again for your registration of interest in the above project. Ausgrid have been working through the detailed design for the proposed infrastructure upgrades for the Hunter Renewable Energy Zone (REZ) and a number of areas that need further archaeological investigation have been identified so that appropriate management strategies can be developed. As such, we have prepared a site specific test excavation methodology for these areas for your review and comment – please see attached. This should be read in conjunction with the original methodology which was provided to you in October 2023.

We welcome any feedback you may have on the attached methodology by CoB Monday 3 February 2025.

Please don't hesitate to contact me if you have any questions.

Kind regards,

APEX ARCHAEOLOGY

Jenni Bate
DIRECTOR - ARCHAEOLOGIST

0422 229 179
JENNI@APEXARCHAEOLOGY.COM.AU
WWW.APEXARCHAEOLOGY.COM.AU

**From:** Amanda De Zwart
**To:** jenni@apexarchaeology.com.au
**Subject:** Re: Hunter REZ - updated methodology
**Date:** Tuesday, 7 January 2025 7:38:59 PM

---

Hi Jenni
Thank you so much for your email AHCS support the test excavation methodology and would like to be involved in any test excavations to come up in the future fieldwork If you need anything else please don't hesitate to contact me
Have a great day
Amanda Hickey AHCS

Get Outlook for Android

---

**From:** jenni@apexarchaeology.com.au <jenni@apexarchaeology.com.au>
**Sent:** Monday, January 6, 2025 3:38:45 PM
**To:** 'Undisclosed Recipients' <jenni@apexarchaeology.com.au>
**Subject:** Hunter REZ - updated methodology

Good afternoon,

Thanks again for your registration of interest in the above project. Ausgrid have been working through the detailed design for the proposed infrastructure upgrades for the Hunter Renewable Energy Zone (REZ) and a number of areas that need further archaeological investigation have been identified so that appropriate management strategies can be developed. As such, we have prepared a site specific test excavation methodology for these areas for your review and comment – please see attached. This should be read in conjunction with the original methodology which was provided to you in October 2023.

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Please don't hesitate to contact me if you have any questions.

Kind regards,

APEX ARCHAEOLOGY
Jenni Bate
DIRECTOR - ARCHAEOLOGIST
0422 229 179
JENNI@APEXARCHAEOLOGY.COM.AU
WWW.APEXARCHAEOLOGY.COM.AU

| | |
|---|---|
| **From:** | Carolyn .H |
| **To:** | jenni@apexarchaeology.com.au |
| **Subject:** | Re: Hunter REZ - updated methodology |
| **Date:** | Tuesday, 7 January 2025 7:27:17 PM |
| **Attachments:** | Outlook-ozktcfu0.png<br>A1.WC.2025.pdf<br>A1.PL.2025.pdf |

---

**Contact:** **Carolyn Hickey**
**Mobile:** **0411650057**
**Email:** **Cazadirect@live.com**
**Address:** **73 Russell St, Emu Plains, NSW 2750**
**ABN:** **20 616 970 327**

Hi,

I have reviewed the document and fully support the Information and Methodology.

I would like to be included in all meetings, reports, sharing of cultural information,

and fieldwork

About Carolyn Hickey

I am a Traditional Owner and Custodian with over 25 years of experience in preserving Aboriginal cultural heritage on various projects. My extensive cultural knowledge is crucial in determining the significance of Aboriginal objects and values in the project area.

**I have attached A1 Indigenous Services Insurances.**

***A1 INDIGENOUS SERVICES, Represents over 100 Indigenous Locals***

I agree to my details being shared with OEH and the LALC. Please feel free to contact me using the details provided above.

Kind regards,
Carolyn Hickey

**A1 Indigenous Services** is a 100% Indigenous-owned Australian company offering a range of services to the construction industry. Our mission is to commit to an innovative approach for a better future for Indigenous employment and community, while improving ways to close the gap in Aboriginal participation in the construction industry. We are dedicated to building strength in Aboriginal communities and our Indigenous labour force.

**A1 Indigenous Services** is a member of the NSW Indigenous Chamber of Commerce (NSWICC). A business or enterprise carrying the NSWICC Assured logo has met national policy requirements as upheld by FACCI, ensuring that it is identified as a First Nations business owner or entrepreneur and that it demonstrates compliance with government and industry regulators.

**From:** jenni@apexarchaeology.com.au <jenni@apexarchaeology.com.au>
**Sent:** Monday, 6 January 2025 3:38 PM
**To:** 'Undisclosed Recipients' <jenni@apexarchaeology.com.au>
**Subject:** Hunter REZ - updated methodology

Good afternoon,

Thanks again for your registration of interest in the above project. Ausgrid have been working through the detailed design for the proposed infrastructure upgrades for the Hunter Renewable Energy Zone (REZ) and a number of areas that need further archaeological investigation have been identified so that appropriate management strategies can be developed. As such, we have prepared a site specific test excavation methodology for these areas for your review and comment – please see attached. This should be read in conjunction with the original methodology which was provided to you in October 2023.

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Please don't hesitate to contact me if you have any questions.

Kind regards,

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Jenni Bate
DIRECTOR - ARCHAEOLOGIST
0422 229 179
JENNI@APEXARCHAEOLOGY.COM.AU
WWW.APEXARCHAEOLOGY.COM.AU

| | |
|---|---|
| **From:** | Lawrence Perry |
| **To:** | jenni@apexarchaeology.com.au |
| **Subject:** | Re: Hunter REZ - updated methodology |
| **Date:** | Tuesday, 7 January 2025 9:17:55 AM |
| **Attachments:** | image004.png<br>Outlook-A picture .png<br>Outlook-Gulanga le.dat |

Hi Jenni

No further comments all good.....

Cheers

*Laurie Perry*
**Chief Executive Officer**
**Wonnarua Nation Aboriginal Corporation**
**T** 02 6571 8595 **M** 0412 593 020 **E** laurie.perry2020@outlook.com
Ground Floor 254 John St Singleton NSW 2330
PO BOX 3066 Singleton 2330
W www.wonnarua.org.au
E enquiries@wonnarua.org.au

We acknowledge the Traditional Custodians of the Land I work on and pay my respect to Elders both past, present and future.

---

**From:** jenni@apexarchaeology.com.au <jenni@apexarchaeology.com.au>
**Sent:** Monday, 6 January 2025 5:05 PM
**To:** 'Lawrence Perry' <laurie.perry2020@outlook.com>
**Subject:** RE: Hunter REZ - updated methodology

Thanks Laurie, I look forward to hearing from you if you have any further comments.

We didn't identify any significant issues, although it is noted in the methodology that one area would need to be tested under an AHIP if impact can't be avoided due to the presence of flaked glass items. That's not really an issue, just something to note for future.

Cheers,

Jenni Bate
DIRECTOR - ARCHAEOLOGIST
APEX ARCHAEOLOGY
0422 229 179
JENNI@APEXARCHAEOLOGY.COM.AU
WWW.APEXARCHAEOLOGY.COM.AU

---

**From:** Lawrence Perry <laurie.perry2020@outlook.com>
**Sent:** Monday, 6 January 2025 4:30 PM
**To:** jenni@apexarchaeology.com.au
**Subject:** Re: Hunter REZ - updated methodology

Hi Jenni

Thank you I will get back to you, just had a quick look, looks okay to me.....are there any issues from your end.

Cheers

*Laurie Perry*
**Chief Executive Officer**
**Wonnarua Nation Aboriginal Corporation**
**T** 02 6571 8595 **M** 0412 593 020 **E** laurie.perry2020@outlook.com
Ground Floor 254 John St Singleton NSW 2330
PO BOX 3066 Singleton 2330
W www.wonnarua.org.au
E enquiries@wonnarua.org.au

We acknowledge the Traditional Custodians of the Land I work on and pay my respect to Elders both past, present and future.

---

**From:** jenni@apexarchaeology.com.au <jenni@apexarchaeology.com.au>

**Sent:** Monday, 6 January 2025 3:38 PM
**To:** 'Undisclosed Recipients' <jenni@apexarchaeology.com.au>
**Subject:** Hunter REZ - updated methodology

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We welcome any feedback you may have on the attached methodology by CoB Monday 3 February 2025.

Please don't hesitate to contact me if you have any questions.

Kind regards,

APEX ARCHAEOLOGY
Jenni Bate
DIRECTOR · ARCHAEOLOGIST
0422 229 179
JENNI@APEXARCHAEOLOGY.COM.AU
WWW.APEXARCHAEOLOGY.COM.AU

**From:** Maree Waugh
**To:** jenni@apexarchaeology.com.au
**Subject:** Re: Hunter REZ - updated methodology
**Date:** Monday, 6 January 2025 3:58:52 PM

---

Hi Jenni,

Wallangan cultural services is happy with the methodology.

Maree Waugh
0439813078

Sent from Outlook for Android

---

**From:** jenni@apexarchaeology.com.au <jenni@apexarchaeology.com.au>
**Sent:** Monday, January 6, 2025 3:38:45 PM
**To:** 'Undisclosed Recipients' <jenni@apexarchaeology.com.au>
**Subject:** Hunter REZ - updated methodology

Good afternoon,

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Please don't hesitate to contact me if you have any questions.

Kind regards,

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Jenni Bate
DIRECTOR - ARCHAEOLOGIST
0422 229 179
JENNI@APEXARCHAEOLOGY.COM.AU
WWW.APEXARCHAEOLOGY.COM.AU

# Appendix F: Draft Report Emails and Responses

| | |
|---|---|
| **From:** | jenni@apexarchaeology.com.au |
| **To:** | "Undisclosed Recipients" |
| **Bcc:** | admin@ungooroo.com.au; aga.services@hotmail.com; alierafrenchtrading@outlook.com; Amandahickey@live.com.au; cacatua4service@tpg.com.au; cazadirect@live.com; ceo@hvabcorp.org.au; ceo@wanaruahlandcouncil.com.au; corroboreecorp@bigpond.com; corroboreecorp@outlook.com; daveyhorton69@gmail.com; deckavale@hotmail.com; didgengunawalclan@yahoo.com.au; dontminemeay@gmail.com; Ethan3trewlynn@gmail.com; gamila_roi@yahoo.com.au; Gunjeewongculturalheritage21@hotmail.com; kevin.duncan@bigpond.com; konanggo_consultancy@hotmail.com; laurie.perry2020@outlook.com; leannekirkman1964@gmail.com; notifications@ntscorp.com.au; pamelayoungg54@gmail.com; scott@yarrawalk.com.au; wallangan@outlook.com; widescope.group@live.com; wscott@ntscorp.com.au |
| **Subject:** | Hunter-Central Coast Renewable Energy Zone Draft ACHA and ACHMP |
| **Date:** | Thursday, 3 July 2025 12:07:43 PM |

Good morning,

I hope you're well. Thank you again for your registration of interest in Ausgrid's Hunter-Central Coast Renewable Energy Zone (HCC REZ) project. Please find the draft ACHA and ACHMP (management plan) for the project for your review and comment available at this link: https://we.tl/t-GOV4YTyGzc .

Your comments are welcomed by CoB Friday 1 August 2025. Please don't hesitate to get in touch if you have any questions about the project.

Kind regards,

APEX ARCHAEOLOGY

Jenni Bate
DIRECTOR - ARCHAEOLOGIST

0422 229 179
JENNI@APEXARCHAEOLOGY.COM.AU
WWW.APEXARCHAEOLOGY.COM.AU

**From:** Amanda De Zwart
**To:** jenni@apexarchaeology.com.au
**Subject:** Re: Hunter-Central Coast Renewable Energy Zone Draft ACHA and ACHMP
**Date:** Sunday, 20 July 2025 7:42:23 PM

---

Hi jenni

Thank you for your email AHCS supports the Hunter-Central Coast Renewable Energy Zone Draft ACHA and ACHMP.

If you need anything else please don't hesitate to contact me Have a great day

Amanda AHCS

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---

**From:** jenni@apexarchaeology.com.au <jenni@apexarchaeology.com.au>
**Sent:** Thursday, July 3, 2025 12:07:33 PM
**To:** 'Undisclosed Recipients' <jenni@apexarchaeology.com.au>
**Subject:** Hunter-Central Coast Renewable Energy Zone Draft ACHA and ACHMP

Good morning,

I hope you're well. Thank you again for your registration of interest in Ausgrid's Hunter-Central Coast Renewable Energy Zone (HCC REZ) project. Please find the draft ACHA and ACHMP (management plan) for the project for your review and comment available at this link: https://we.tl/t-GOV4YTyGzc .

Your comments are welcomed by CoB Friday 1 August 2025. Please don't hesitate to get in touch if you have any questions about the project.

Kind regards,

APEX ARCHAEOLOGY
Jenni Bate
DIRECTOR - ARCHAEOLOGIST
0422 229 179
JENNI@APEXARCHAEOLOGY.COM.AU
WWW.APEXARCHAEOLOGY.COM.AU

| | |
|---|---|
| **From:** | bobsam1@bigpond.net.au |
| **To:** | jenni@apexarchaeology.com.au |
| **Subject:** | RE: Hunter-Central Coast Renewable Energy Zone Draft ACHMP and ACHA |
| **Date:** | Thursday, 17 July 2025 1:16:13 PM |
| **Attachments:** | facing_edition hw0139 John Fraser to Howitt 26041882.pdf<br>facing_edition hw0145 Howitt notes on coastal tribes.pdf |

Dear Jenny
Great talking and thank you
To add the hidden archive files Two of 13 PDFs attached regarding gringai guringay. you can get them from Sydney Uni Archives recorded by the Boydell family from 1826 to 1978 the letters to Boydell Family like the hook family from the Barrington NSW and others from **John Fraser 1890s where he gained his information LOL and invented the super tribe Kuring-gai** as on Hortons Map 1996

- The Guringay tribe inhabited the Allyn River Valley and beond.
- Their name has been recorded with numerous spelling variations over time (e.g., Cooringay, Gooreeggai, Gringai), with **Guringay** being the accepted modern spelling, endorsed by elders of the Gathang language group.
- **Geographical Clarification:** The text explicitly states, "The East Coast is not GuriNGai," and "All who wrote about the Gringai 'however spelt' from 1826 -1900s placed them North of the Hunter River NSW including Howitt, John Fraser and more." This clarifies that while they are in NSW, their traditional lands are specifically north of the Hunter River, not along the general East Coast.
- The language of the Guringay, Birrbay, and Warrimay peoples is Gathang, for which a grammar and dictionary by Amanda Lissarrague exists.

**Charles Boydell's Arrival and Relationship with the Guringay:**

- **Arrival:** Charles Boydell arrived in Australia in 1826 and was granted land on the Allyn River, establishing "Camyr Allyn" (Welsh for "A cottage on the Allyn") near what is now Gresford, NSW.
- **First Encounter:** Upon his arrival, the Gringai tribes roamed the area. An account from his son, J. Boydell, describes the Gringai's astonishment at seeing Charles on horseback, initially believing him and the horse to be one creature. When Charles dismounted, they called out "Turralby," identifying him as the reincarnation of a recently deceased chief who resembled him. This was based on their philosophy that "he died a blackfellow and jumped-up white fellow."
- **Influence and Respect:** From that day, Charles's word held significant authority among the Gringai, and his son was also recognized as "Turralby's son" with equal power over them.
- **Personal Life:** Charles Boydell married Elizabeth Macdonald Ritchie (1817-1899) by Bishop Broughton at St James' Church, Sydney, on May 2, 1837.

**William Barker Boydell's Arrival and Relationship with the Guringay:**

- **Arrival:** William Barker Boydell, Charles's younger brother (10 years his junior), arrived in Australia a decade later on the ship "Camden" at the age of 18.
- **Personal Life:** Onboard the "Camden," William met Mary Phoebe Broughton, Bishop Broughton's 16-year-old daughter. They fell in love and married eight years later in 1844, going on to have six sons and four daughters.
- **Land Grant:** William received a grant of land on the Allyn River and named his property "Caergwrle" (Welsh for "Fort of Gwrle"). This property was later passed to his fifth son, Richard Barker Boydell.
- **Positive Interactions:** Both Charles and William spoke of the Gringai. William had particularly positive attitudes towards the natives, writing, "we never abused them but fed them and cared for them as we could."
- **"Toomilvyn":** When William first came into the area, the Aboriginal people looked upon him as the reincarnation of a dead tribesman and gave him the name "Toomilvyn," consistent with their "fall down black fellow, jump up white fellow" philosophy.
- **Assistance and Gift:** The Gringai provided William with valuable advice on locating the best permanent water sources, which aided him in selecting the Caergwrle property. The Boydell family was also given a "presentation-type boomerang" from the Gringai, signifying their positive relationship.

**Burial Sites:**

- William and Mary Boydell are buried at St. Mary's-on-Allyn.
- Charles Boydell's family is buried at St. Anne's.

**Sources:**


- JEANNETTE LEE. *THE HISTORY OF THE BOYDELL FAMILY IN AUSTRALIA SUMMARY OF TAPED INTERVIEW WITH MR. RICHARD GRANT BOYDELL ON 22ND JULY, 1989 AT WALCHA N.S.W.*

- JEANNETTE LEE. *AUSTRALIAN HISTORY WEDNESDAY NIGHT CLASS REGIONAL HISTORY PRESENTED 20/9/89 CHARLES BOYDELL AND WILLIAM BARKER BOYDELL PIONEERS OF THE HUNTER VALLEY.*
- *Gresford 1829-1979.*

Kind regards Bob Syron

---

**From:** bobsam1@bigpond.net.au <bobsam1@bigpond.net.au>
**Sent:** Thursday, 17 July 2025 1:04 PM
**To:** 'jenni@apexarchaeology.com.au' <jenni@apexarchaeology.com.au>
**Cc:** 'Elizabeth McEntyre' <emcentyre50@gmail.com>; 'Scott Franks' <scott@yarrawalk.com.au>
**Subject:** RE: Hunter-Central Coast Renewable Energy Zone Draft ACHMP and ACHA

Dear Jenny

Ref HUNTER-CENTRAL COAST RENEWABLE ENERGY ZONE (HCC REZ) ABORIGINAL CULTURAL HERITAGE ASSESSMENT REPORT Report to Ausgrid LGAs: Cessnock, Singleton, and Muswellbrook July 2025

Pages 25 26 . This is poor research no Gringai or spelt Guringay referenced at all Guringay are not a sub tribe of Worimi or wonarua

You said “extract from a map created by David Horton (1996) for the Australian Institute of Aboriginal and Torres Strait Islander Studies appears to be the current 25 general consensus of the geographic location of the main Aboriginal language groups in the Hunter Valley Watt (2023:40).” This is far from the truth or general consensus.

**I request and demand gringai guringay are referenced accordingly in this report and the attachments be added in the report epically “Guringaygupa djuyal, barray Language and Country of the Guringay people” and our boundries as shown in the map in this attchmnet**

I am writing to formally raise serious concerns regarding the continued and widespread misrepresentation and disrespect for and of Aboriginal identity, in particular the Hornsby Shire Council fabricated association of the GuriNgai name with the East Coast from Sydney to Port Stephens.

**SEE Attached x5 PDFs “Bloodlines Laurei Bimson” and other supporting letters including Government.**

My name is Robert Syron M-0407209553 legally registered Aboriginal owner, As a legally registered Aboriginal Owner under Aboriginal land right Act 1983 of Worimi Guringay lands and a descendant of prominent cultural leaders and Australian Rwandan War veteran 1994-95. I have a responsibility to correct this ongoing cultural distortion.

**1. Guringay, Guringai are Not from the East Coast (Sydney to Port Stephens)**
**Historical, linguistic, and anthropological evidence consistently shows that the Guringay people (also historically recorded as Gringai or Guringai) are located north of the Hunter River, with strong affiliations to the Barrington, Gloucester, Allyn, Paterson, and Williams Rivers NSW.**

- **The attached PDFs “Guringaygupa djuyal, barray” language and country of the Guringay people Amanda Lissarrague and Robert Syron November 2024 (2024) Thanks to Anthropologist Peter Sutton for his comments on earlier drafts**. clearly traces the language and country of the Guringay, debunking the notion that “GuriNgai” have any legitimate presence in Sydney, Central Coast, or southern Awabakal/Wonnarua areas.
- This aligns with historical records by **William Scott (1840s)** and **James Boydell (1826 )**, showing Guringay presence in the mid-north Hunter region—not the Central Coast.

**2. Invented Identity of “Guringai” South of the Hunter**
The term Kuring-gai now changed to “GuriNgai” was **fabricated** by John Fraser in the late 1892 and **revived erroneously** by Arthur Capell in the 20th century. Their academic misinterpretations were not based on genuine Traditional Custodian testimony or continuous cultural occupation.

- J. Fraser conflated multiple language groups into an imagined “super tribe” stretching from the Illawarra to the Hastings.
- Capell reused the name “Kuringgai” for linguistic convenience—not cultural accuracy—drawing false links between Bungaree’s people and language from Port Jackson to Tuggerah he changed the spelling to GuriNgai

- **Letter to parliament from Darkinjung Aboriginal land council to Parliament NSW**
  https://www.parliament.nsw.gov.au/lcdocs/submissions/79745/013a%20Darkinjung%20Local%20Aboriginal%20Land%20Council.pdf
  “Darkinjung aboriginal land council recognises and supports the legitimacy of Native Title, particularly where determinations have been made and the claimants have demonstrated their ongoing connection to

country."
**"Darkinjung notes that there are illegitimate people here on the Central Coast now claim to be 'guringai' but have never proved their claims, ancestral connections or traditional linkages to this country in accordance with legal requirements. "**

**3. Statements from Recognised Custodians**
The misrepresentation is widely rejected by Aboriginal leaders from across NSW:

- **Kevin Duncan (Awabakal):** Confirms Awaba country lies between the Hunter and Hawkesbury rivers, and "no other Aboriginal groups or tribes existed inside Awaba traditional lands."
- **Jayson Cooke (Garigal):** Publicly states that the Guringai name has been wrongfully applied to his people, calling it "a modern invention" and "cultural genocide."
- **Scott Franks (Wonnarua):** Cites independent anthropological evidence showing that the Gringai/Guringay are **not**a sub-clan or related to the Wonnarua.

**4. Official Government Rejection of Guringai Claims**

- The **Registrar under the Aboriginal Land Rights Act** formally objected to a proposed ILUA involving the "Awabakal and Guringai" people, citing no registered Aboriginal owners, no valid Native Title rights, and no government party participation.
- The **Aboriginal Heritage Office (2015)** concluded in their report *Filling a Void* that the term "Guringai" is historically inaccurate and should **not** be used to refer to Traditional Custodians of the Central Coast and Sydney regions.

**5. Requests for Immediate Action**
To address this cultural misrepresentation, I respectfully request the following:

- **Circulate Accurate Information:** Please share the attached reports and evidence with your team and any consultants referencing Guringai heritage.
- **Cease Using the Term "Guringai" South of the Hunter River:** This includes on websites, signage, education material, or heritage acknowledgments.
- **Engage with Authentic Custodians:** Ensure that your organisation consults with Guringay Elders and recognised Aboriginal Owners from the Barrington/Gloucester region for matters concerning Guringay culture or history.

**Conclusion**
This letter is not an attack—it is a truth-telling. The misapplication of Aboriginal identity, whether intentional or not, results in cultural harm, legal confusion, and erasure of real Aboriginal voices. As a war veteran, a cultural custodian, and a direct descendant of Malookut Lightning (Jack Cook) and Jessie Cook, I stand firm in defence of our people's true history.
I am available to meet or provide further clarification as needed. Thank you for your attention to this serious matter.
Kind regards,
**Robert Syron**
Registered Aboriginal Owner – Worimi Guringay Lands
Kabook and Watoo descendant Guringai
Australian War Veteran – Rwanda 1994–95
ANZAC Peace Prize (1995) | Meritorious Unit Citation
https://hunterlivinghistories.com/2018/08/15/the-kabook-watoo/

**Statements from Aboriginal people Kevin Duncan, Jayson Cooke and Scott Franks**

**From:** kevin.duncan@bigpond.com <kevin.duncan@bigpond.com>
**Sent:** Monday, 21 October 2024 12:41 PM
**To:** BS <bobsam1@bigpond.net.au>
**Subject:** Re Awaba Country Statement

To Whom it May Concern,

I Kevin Duncan a direct descendant of Uncle Biraban -Wypong and Grandfather Kuttirun William Bird of the Awaba Peoples on the Central Coast of NSW.

The boundary of the Awaba Country goes from the Hunter River to the Hawkesbury River and 60 miles inland the boundary was explained by the Reverend Lancelot Threlkeld who addressed the Colonial Secretary at Parramatta in 1836 he was accompanied by Biraban. He explained his main source of information came from Biraban himself.There were no other Aboriginal groups or tribes that existed inside Awaba traditional lands. My Grandfather Kuttirun and his brother Biraban were employed by the Supreme Court of England and interpretated for their people in the courts.

Kevin Duncan Awaba Peoples.

On Thu, 3 Oct 2024 at 11:47, Jayson Cooke <jayson.d.cooke@gmail.com> wrote:

Bungaree and his mob - the Garigal/Carigal.

My name is Jayson (JD) Cooke, proud Marramarra man of the Garigal/Carigal, and confirmed descendant of Bungaree and Matora. I write/speak on behalf of the genuine Aboriginal descendants of our Ancestor.

I am writing to advise that the terms Guringai, Kuringai, GuriNgai and variations on this theme are not in any way connected to our genuine mob, Culturally, historically, or in modern times. We are fortunate that language managed to be passed down to us through family, and that language is what is today referred to as the Sydney Language, spoken from Nora Head to Kamay (Botany Bay).

Although non-Aboriginal sources have sought to apply names to us, our mob, and our language post-invasion, these terms are inauthentic, Culturally harmful, and in many cases represent and compound ignorance and errors.

In the early 1800's we were forced to remain at and around the Marramarra area in order to practise our Culture and survive the encroaching settlement of our Country. There we could source food and medicine traditionally with minimal colonial interference, and we identified ourselves as Marramarra.

We are not biologically or Culturally related to the founders of the group that created Guringai Tribal Link Aboriginal Corporation, including Mr Warren Whitfield and Ms Tracey Howie, and have publicly declared that they are not who or what they claim to be for some time. We strongly oppose attempts to invent faux-Aboriginal pseudo-Culture, and find the notion of falsely claiming someone else's Ancestors, Country, and stories as nothing short of genocide - another Colonisation by yet another group of non-Aboriginal People.

I am not a linguist or an Anthropologist, but I am a proud Aboriginal man who knows his Culture, history and Ancestors, and who sees through the non-Aboriginal people's attempts to mimic us as easily as most people see through a clear glass window pane.

The name Guringai belongs to the Kabook and Watoo People of the Barrington region, north of the Hunter River - a completely different mob to us and our Ancestors, and this is/was known pre and post 1788 by us.

This name (the property of the Kabook and Watoo People) was first misappropriated and misapplied by John Frederick Mann in the 1800's, then by Rev. John Fraser. In 1970 linguist Arthur Capell considered that 'a language which it is convenient to call Kuringgai (Guringgai) was spoken on the north side of Port Jackson, and extended at least to Tuggerah Lakes, merging then into Awaba [i.e. the language recorded by Missionary Threlkeld at Lake Macquarie]'. Capell claimed that a different language, which he called Darginyung, was spoken in the Upper McDonald Valley, Wollombi and the western part of the Central Coast. As noted by Dr Lawrence Paul Allen in his PHD thesis titled 'A History of the Aboriginal People of the Central Coast of New South Wales to 1874', "it is important to note that Capell was simply seeking to find an appropriate name for a language and was not asserting that this was the name by which Aboriginal people identified themselves".

In 2013 Geoffrey Ford added that the language was almost certainly called Darkiñung, while in 2015 the Aboriginal Heritage Office (AHO) published an exhaustive study of the name 'Guringai', which concluded that 'the use of the term Guringai or any of its various spellings such as Kuringgai is not warranted [anywhere] given its origin and previous use'.

The work of Dr Lawrence Paul Allen, and the work of Anthropologist Dr Natalie Kwok both support, and provide insight into some of the past errors made by non-Aboriginal people incorrectly claiming to be descendants of my Ancestors Bungaree and Matora, and compliment the knowledge and understanding of our mob.

The responsibility of academics to listen and learn from us has to include a degree of critical thought in determining if sources are genuine and reliable - failing to do this results in falsehoods and self-serving narratives being amplified, while genuine knowledge is lost or replaced by modern inventions, as has occurred on the Northern Beaches of Sydney, and the Central Coast regions of New South Wales. We have already experienced invasion, germ warfare, genocide and wars as a result of the invasion and ongoing occupation that began in 1788. We have survived all this, retained our knowledge and Culture, and are not content to suffer further genocidal practices by non-Aboriginal 'experts' who whether well-meaning or not, add to the suffering we experience by haphazardly applying their ideas and notions to us, and presenting prima facie nonsense as if it were truthful.

Yours in unity,

JD Cooke.

**From:** Scott Franks <scott@yarrawalk.com.au>
**Sent:** Tuesday, 1 October 2024 3:46 PM
**To:** Bob Sam <bobsam1@bigpond.net.au>
**Subject:** Native title research

Dear Robert,

I would like to bring to your attention statements that have been made by individuals within the Hunter Valley that some people have been promoting a position that the Gringai, Guringay are sub clan of our people the Wonarua, this is a made-up and is a delusional position, over the last several years the PCWP have had independent anthropological research conducted by Dr. Lee Sackett in reference to one of our whole country. Native Title claims.

Mr. Sackett in his research, which was also supported by Dr. Draper confirmed that Gringai, Guringay have no affiliation or association with the Wonnarua people and are tribal groups in their own right. It's very clear that some individuals are promoting this position because those people simply have no cultural affiliation, understanding or association without peoples in the Hunter Valley, I authorise you to use this information in this email however, you see fit and share it with whichever parties you deem fit to ensure that this false position from being spread.

Regards

Scott Franks

Native title claimant for the PCWP Wonnarua native title party.

Yarrawalk PTY Limited

Scott@yarrwalk.com.au

Ph: 0404171544

*Breach of Confidentiality*

This email and any files transmitted with it are confidential and intended solely for the use of the individual to whom they are addressed. If you have received this email in error please notify the sender. This message contains confidential information and is intended only for the individual named. If you are not the named addressee you should not disseminate, distribute or copy this e-mail. Please notify the sender immediately by e-mail if you have received this e-mail by mistake and delete this e-mail from your system. If you are not the intended recipient you are notified that disclosing, copying, distributing or taking any action in reliance on the contents of this information is strictly prohibited. *Although the company has taken reasonable precautions to ensure no viruses are present in this email, the company cannot accept responsibility for any loss or damage arising from the use of this email or attachments*.

**(Dr) Elizabeth McEntyre**
My name is (Dr) Elizabeth McEntyre, proud and sovereign Worimi Guringai Elder, and confirmed descendant of John Jonas, born around 1841-1843 at Coulston on the Paterson River, upstream from Gresford in NSW. I represent and write on behalf of the family members who are the genuine, known and documented Aboriginal descendants of our Ancestor John Jonas, a Guringai/Gringai/Gringay Man.
There is considerable evidence to confirm that Guringai/Gringai/Gringay People are not from the central coast, nor are we a sub clan of the Wonnarua or Worimi Peoples. The late Dr William (Bill) Jonas AM, one of our dearest family members who was acclaimed in the field of geography and awarded the Australian Institute of Geographers' Professional Service Commendation, authenticated the Guringai to be a large and distinct group covering the lands and waters from the north of the Hunter River to the Manning River, and west to the Barrington Tops and Great Dividing Range. Dr Jonas was recognised by Aboriginal Peoples, governments, and academics, as an expert in Aboriginal studies, education, geography, culture, heritage, environment, social justice, and race relations. Through his remarkable career, Bill held many prominent roles with the NSW Education Commission, Australian Heritage Commission, Immigration Review Tribunal, as well as Director of the Newcastle Awabakal Aboriginal Cooperative, Commissioner on the Royal Commission into British Nuclear Tests in Australia – Maralinga, Director of the National Museum of Australia, Principal Australian Institute Aboriginal and Torres Strait Islander Studies, Aboriginal and Torres Strait Islander Social Justice Commissioner and Acting Race Relations Commissioner. The Wollotuka Institute at the University of Newcastle was established by Dr Jonas.
John Jonas had an uninterrupted connection and belonging to Guringai Country and Waterways. In 1869, John lived in Coulston. In 1877, John lived at Howes Creek on the upper Paterson River with his non-Aboriginal wife Blanche and three young children. John was a registered voter on the 1878-1879 electoral roll as living at Vacy. In 1881, John lived in Underbank area, and worked as a sawyer. After the death of Blanche, he married non-

Aboriginal woman Anne Cornwall at the Presbyterian Manse in Dungog, NSW.
In 1881 the family lived in Stroud, however in the late 1880s they lived back on the upper Williams River at Salisbury. They remained there until 1899 when John moved the family to Dungog to work as an assistant nightman for the Dungog Municipal Council. In 1901 the family lived at Clarence Town Road, Dungog, where they were recorded in the census. The extract from the census book below shows the listing of John Jonas as the head of a household consisting of three males and two females. They are all identified as being Aboriginal people other than one woman who was John's wife Anne.
John's son with Anne, my Great Grandfather, was William 'Bill' James Albert Jonas, born in Salisbury, on the upper Williams River 1887-1888. Bill Jonas was a buckjumper and roughrider with Martini's Buckjumping Show in the early 1900s. In 1911 Martini's show became part of a show called Wild Australia, which was formed to travel to England for the celebrations around the coronation of King George V. Bill travelled to England, where he was billed as one of the 'Champion Rough Riders' of the show. In 1911, within a few months of landing in London, Bill had married a young English woman, Maud Emily Stephens (also recorded as Stevens). Maud had a young daughter, Lillian, who was around 2 years old when Maud and Bill married and who was raised and recognised as Bill's daughter. Bill and Maud had two children born in England, Cleo Ann Bonita who was born in 1912, and William James Albert who was born in 1913. In March 1913, the family were living in Willesden, London, and Bill was still working as a 'Showman Rough-rider' with the Wild Australia show. In October of that year Maud, along with her three children, Lillian, Cleo, and William, left London for Sydney on the Orama steamship. Bill appears to have travelled separately. Following their return to Australia the family lived at Booral, NSW, on the Karuah River.
In 1916, during the First World War, Bill enlisted in the AIF. At the time of his enlistment in 1916 he was working as a horse-breaker. After training in Maitland, NSW, he embarked for France in August 1916 and served overseas until his return in May 1919. Bill served in the 34th Infantry Battalion. He was mentioned in General Haig's despatches of 16 March 1919 for 'conspicuous services', for which he received a MID emblem of two oak leaves, an award for bravery or distinguished service. Bill died in September 1947 at Allworth where the family had moved not long before; he was buried back at Booral.
Reference: The Jonas Family for the Upper Hunter Valley: Aboriginal Owners Background Research Draft Community Research Report, Volume 3 of 3, pp. 422-429) commissioned by the Office of the Registrar Aboriginal Land Rights Act (NSW).

**Relevant Articles and Research Reports**
**Tracy Howie and family Anthropology report**
Anthropological Connection Report: Family history & contemporary connection evidence. – Truth-telling from a neurodiverse perspective.

**( It states No evidence to support the claims)**
Hunter Living Histories: Kabook and Watoo People (Hunter Living Histories)
Daily Telegraph: The Historical Fiction of Guringai (Daily Telegraph)
Aboriginal Heritage Office: Filling a Void (Aboriginal Heritage Office)
"A long Con Gone on to long face book https://www.facebook.com/p/A-long-con-gone-on-too-long-100094522751313/

The Australian News
https://www.theaustralian.com.au/commentary/some-questions-of-identity-are-less-than-welcome/news-story/78b135362f32eb9a78a69deee153744f

Dark emu exposed https://www.dark-emu-exposed.org/home/category/Fakes

Guringai.org https://guringai.org/

Bungaree.org https://bungaree.org/

Laurie Bimson – Truth-telling from a neurodiverse perspective. <https://guringai.org/2023/08/28/laurie-bimson/>

Laurie Bimson Cousin Neil Evers 9 News

https://www.news.com.au/lifestyle/real-life/true-stories/row-erupts-over-selfidentifying-aboriginal-man-neil-evans/news-story/84c32e1ac89c029730b6f3a64bb35532

The historical fiction of the word Guringai that has filled a void in our knowledge of the original inhabitants 2015 Telegraph

https://www.dailytelegraph.com.au/newslocal/northern-beaches/misunderstanding-the-historical-fiction-of-the-word-guringai-that-has-filled-a-void-in-our-knowledge-of-the-original-inhabitants/news-story/b1aec152c74220c535883621081a2fd2

Filling a Void: history of word 'Guringai' Tax payer funded report 2015

https://www.aboriginalheritage.org/history/filling-a-void-history-of-word-guringai/

Northen Beaches City council Media Statement Tax payer funded report 2015

https://files-preprod-d9.northernbeaches.nsw.gov.au/nbc-prod-files/documents/general-information/pittwaters-past/lh-aboriginalpeople.pdf

Attached -letter to the Premier NSW from 7 Aboriginal land councils ( The east coast is not Guringai )

Attached**-** "Guringaygupa djuyal, barray Language and Country of the Guringay people"

written By Amanda Lissarrague linguist and Robert Syron, a well-known descendant of Jack Cook Malookut , and member of the Cook Family of Barrington Aboriginal Corporation.

Lissarrague, A. 2006. A Salvage Grammar of the Language from the Hunter River & Lake Macquarie. Nambucca Heads: Muurrbay Aboriginal Language and Culture Cooperative. This book demonstrates how Wanarruwa / Wonnarua is a dialect of HRLM.

Lissarrague, A. 2010. A grammar and dictionary of Gathang, Language of the Birrbay, Guringay and Warrimay. Nambucca Heads: Muurrbay Aboriginal Language and Culture Cooperative.This book demonstrates how Guringay is a dialect of Gathang.

Kind regards

Robert Syron

Registered Aboriginal owner of Worimi Guringai Lands

Australian Rwandan War veteran 1994-95, ANZAC Peace Prize 1995, Meritorious Unit Citation

kabook and Watoo people https://hunterlivinghistories.com/2018/08/15/the-kabook-watoo/

We acknowledge the Traditional Lands of the Worimi , Guringai or spelt Guringay and Biripi people of the kutthung language the Custodians, spiritual and cultural owners of these lands. We acknowledge our Elders past and present to all Aboriginal and Torres Strait Islander people. The Gringai continue to practice Culture and have a strong connection to our lands and secrete sites where our ancestors lay in the Barrington / Gloucester Manning Valley area

Kind regards Bob Syron
Legally Registered Aboriginal owner aboriginal land rights ACT 1983

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**From:** jenni@apexarchaeology.com.au <jenni@apexarchaeology.com.au>
**Sent:** Thursday, 17 July 2025 12:17 PM
**To:** bobsam1@bigpond.net.au
**Subject:** Hunter-Central Coast Renewable Energy Zone Draft ACHMP and ACHA

Good afternoon Bob,

I hope you're well. Thank you again for your registration of interest in Ausgrid's Hunter-Central Coast Renewable Energy Zone (HCC REZ) project. Please find the draft ACHA and ACHMP (management plan) for the project for your review and comment available at this link: https://we.tl/t-GOV4YTyGzc .

My apologies for not sending this to you sooner, unfortunately as your registration of interest was received late in the process you were inadvertently left off when it was sent out earlier this month. The comment period closes on CoB Friday 1 August 2025. If you could possibly get back to me by that date with any comments it would be greatly appreciated. Please let me know if that doesn't work for you.

Please don't hesitate to get in touch if you have any questions about the project.

Kind regards,

APEX ARCHAEOLOGY

Jenni Bate
DIRECTOR - ARCHAEOLOGIST

0422 229 179
JENNI@APEXARCHAEOLOGY.COM.AU
WWW.APEXARCHAEOLOGY.COM.AU

**From:** jenni@apexarchaeology.com.au
**To:** "Lawrence Perry"
**Subject:** RE: Hunter REZ - updated methodology
**Date:** Monday, 11 August 2025 10:14:20 AM
**Attachments:** image004.png
image005.png

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Hi Laurie,

I hope you're well. Apologies for the delay in getting back to you.

Thank you for your comments on the ACHMP. The contact details in the ACHMP for unexpected finds are only the people to be notified in the initial instance of an unexpected find, and all RAPs would be advised shortly after. No other RAPs are listed in that section, aside from the LALC due to their statutory responsibility for Aboriginal cultural heritage.

I will update the ACHMP to ensure it is clear that all RAPs should be advised in the event of an unexpected find that is confirmed to be Aboriginal in origin.

Thanks again for bringing this to my attention, it is appreciated.

Have a lovely day,

APEX ARCHAEOLOGY
Jenni Bate
DIRECTOR - ARCHAEOLOGIST
0422 229 179
JENNI@APEXARCHAEOLOGY.COM.AU
WWW.APEXARCHAEOLOGY.COM.AU

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**From:** Lawrence Perry <laurie.perry2020@outlook.com>
**Sent:** Friday, 18 July 2025 2:20 PM
**To:** jenni@apexarchaeology.com.au
**Subject:** Re: Hunter REZ - updated methodology

Hi Jenni

Can you add Wonnarua Nation Aboriginal Corporation in the contact details for unexpected finds sections please in the hunter rez DRAFT ACHMP, not sure why we were excluded.

Cheers

Laurie Perry

**Chief Executive Officer**

**Wonnarua Nation Aboriginal Corporation**

**T** 02 6571 8595 **M** 0412 593 020 **E** laurie.perry2020@outlook.com

Ground Floor 254 John St Singleton NSW 2330

PO BOX 3066 Singleton 2330

W www.wonnarua.org.au

E enquiries@wonnarua.org.au

We acknowledge the Traditional Custodians of the Land I work on and pay

my respect to Elders both past, present and future.

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**From:** jenni@apexarchaeology.com.au <jenni@apexarchaeology.com.au>
**Sent:** Monday, 6 January 2025 3:38 PM
**To:** 'Undisclosed Recipients' <jenni@apexarchaeology.com.au>
**Subject:** Hunter REZ - updated methodology

Good afternoon,

Thanks again for your registration of interest in the above project. Ausgrid have been working through the detailed design for the proposed infrastructure upgrades for the Hunter Renewable Energy Zone (REZ) and a number of areas that need further archaeological investigation have been identified so that appropriate management strategies can be developed. As such, we have prepared a site specific test excavation methodology for these areas for your review and comment – please see attached. This should be read in conjunction with the original methodology which was provided to you in October 2023.

We welcome any feedback you may have on the attached methodology by CoB Monday 3 February 2025.

Please don't hesitate to contact me if you have any questions.

Kind regards,

APEX
ARCHAEOLOGY

Jenni Bate
DIRECTOR - ARCHAEOLOGIST

0422 229 179
JENNI@APEXARCHAEOLOGY.COM.AU
WWW.APEXARCHAEOLOGY.COM.AU

| | |
|---|---|
| **From:** | jenni@apexarchaeology.com.au |
| **To:** | "Lawrence Perry" |
| **Subject:** | RE: Hunter-Central Coast Renewable Energy Zone Draft ACHA and ACHMP |
| **Date:** | Monday, 7 July 2025 10:55:53 AM |
| **Attachments:** | image005.png<br>image003.png<br>image006.png |

Thanks Laurie.

I have passed your email onto Ausgrid and will work through the process with them. I have suggested they make contact with you directly to discuss. I will also include it in the ACHA as a recommendation to be considered and implemented as appropriate.

Kind regards,

**From:** Lawrence Perry <laurie.perry2020@outlook.com>
**Sent:** Monday, 7 July 2025 10:40 AM
**To:** jenni@apexarchaeology.com.au
**Subject:** Re: Hunter-Central Coast Renewable Energy Zone Draft ACHA and ACHMP

Hi Jenny

The only avenue for us is through the culture and heritage act....

Cheers

*Laurie Perry*
**Chief Executive Officer**
**Wonnarua Nation Aboriginal Corporation**
**T** 02 6571 8595 **M** 0412 593 020 **E** laurie.perry2020@outlook.com
Ground Floor 254 John St Singleton NSW 2330
PO BOX 3066 Singleton 2330
W www.wonnarua.org.au
E enquiries@wonnarua.org.au

We acknowledge the Traditional Custodians of the Land I work on and pay my respect to Elders both past, present and future.

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**From:** jenni@apexarchaeology.com.au <jenni@apexarchaeology.com.au>
**Sent:** Monday, 7 July 2025 9:48 AM
**To:** 'Lawrence Perry' <laurie.perry2020@outlook.com>
**Subject:** RE: Hunter-Central Coast Renewable Energy Zone Draft ACHA and ACHMP

Thanks so much, Laurie.

I note and appreciate your comments regarding cultural community offsets. These actions are outside the scope of the ACHA program, but I will absolutely pass them onto the project manager for their consideration. It sounds like a really good action. I will also include your comments in the report as requested.

Kind regards,

---

**From:** Lawrence Perry <laurie.perry2020@outlook.com>
**Sent:** Monday, 7 July 2025 8:05 AM
**To:** jenni@apexarchaeology.com.au
**Subject:** Re: Hunter-Central Coast Renewable Energy Zone Draft ACHA and ACHMP

Hi Jenny

I have read the reports and agree with the recommendations on the proviso we add the below paragraph in your report.

I would also like to talk to energy co representatives about including cultural Community Offsets as part of the ACHA and ACHMP as part of development consents for this NSW Government State Significant project as discussed with the First Nation REZ committee, established by Energy Co.

This process worked for the new Hunter Expressway which gave real community led outcomes for Aboriginal employment, Aboriginal Community led Close the gap

programs, training and local Aboriginal Community led land asset projects to help build the Aboriginal Economy as part of this projects development consents based on our loss of culture and heritage.

I can explain this in more detail when you are free.

Cheers

*Laurie Perry*
**Chief Executive Officer**
**Wonnarua Nation Aboriginal Corporation**
**T** 02 6571 8595 **M** 0412 593 020 **E** laurie.perry2020@outlook.com
Ground Floor 254 John St Singleton NSW 2330
PO BOX 3066 Singleton 2330
W www.wonnarua.org.au
E enquiries@wonnarua.org.au

We acknowledge the Traditional Custodians of the Land I work on and pay my respect to Elders both past, present and future.

---

**From:** jenni@apexarchaeology.com.au <jenni@apexarchaeology.com.au>
**Sent:** Thursday, 3 July 2025 12:07 PM
**To:** 'Undisclosed Recipients' <jenni@apexarchaeology.com.au>
**Subject:** Hunter-Central Coast Renewable Energy Zone Draft ACHA and ACHMP

Good morning,

I hope you're well. Thank you again for your registration of interest in Ausgrid's Hunter-Central Coast Renewable Energy Zone (HCC REZ) project. Please find the draft ACHA and ACHMP (management plan) for the project for your review and comment available at this link: https://we.tl/t-GOV4YTyGzc .

Your comments are welcomed by CoB Friday 1 August 2025. Please don't hesitate to get in touch if you have any questions about the project.

Kind regards,

APEX
ARCHAEOLOGY

Jenni Bate
DIRECTOR - ARCHAEOLOGIST

0422 229 179
JENNI@APEXARCHAEOLOGY.COM.AU
WWW.APEXARCHAEOLOGY.COM.AU

# APPENDIX G: AHIMS SEARCH RESULTS

# AHIMS Web Services (AWS)
## Search Result

Your Ref/PO Number : 23115a

Client Service ID : 832439

Apex Archaeology

PO BOX 236

Nowra New South Wales 2541

Attention: Leigh Bate

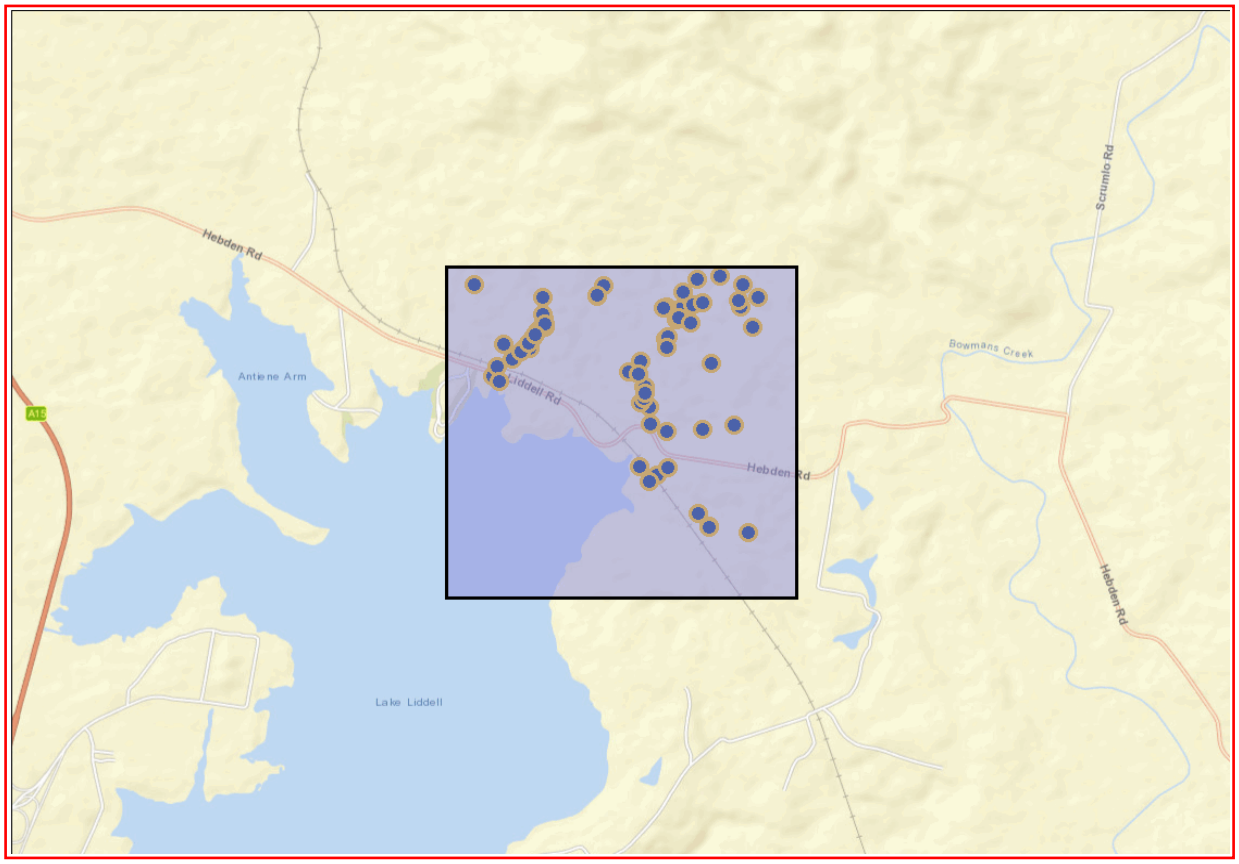
Email: leigh@apexarchaeology.com.au

Date: 24 October 2023

Dear Sir or Madam:

**AHIMS Web Service search for the following area at Datum :GDA, Zone : 56, Eastings : 311359.0 - 313910.0, Northings : 6417191.0 - 6419637.0 with a Buffer of 0 meters, conducted by Leigh Bate on 24 October 2023.**

**The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.**




A search of Heritage NSW AHIMS Web Services (Aboriginal Heritage Information Management System) has shown that:

| | |
|---|---|
| 73 | Aboriginal sites are recorded in or near the above location. |
| 0 | Aboriginal places have been declared in or near the above location. * |

**If your search shows Aboriginal sites or places what should you do?**

- You must do an extensive search if AHIMS has shown that there are Aboriginal sites or places recorded in the search area.
- If you are checking AHIMS as a part of your due diligence, refer to the next steps of the Due Diligence Code of practice.
- You can get further information about Aboriginal places by looking at the gazettal notice that declared it. Aboriginal places gazetted after 2001 are available on the NSW Government Gazette (https://www.legislation.nsw.gov.au/gazette) website. Gazettal notices published prior to 2001 can be obtained from Heritage NSW upon request

**Important information about your AHIMS search**

- The information derived from the AHIMS search is only to be used for the purpose for which it was requested. It is not be made available to the public.
- AHIMS records information about Aboriginal sites that have been provided to Heritage NSW and Aboriginal places that have been declared by the Minister;
- Information recorded on AHIMS may vary in its accuracy and may not be up to date. Location details are recorded as grid references and it is important to note that there may be errors or omissions in these recordings,
- Some parts of New South Wales have not been investigated in detail and there may be fewer records of Aboriginal sites in those areas. These areas may contain Aboriginal sites which are not recorded on AHIMS.
- Aboriginal objects are protected under the National Parks and Wildlife Act 1974 even if they are not recorded as a site on AHIMS.
- This search can form part of your due diligence and remains valid for 12 months.

Level 6, 10 Valentine Ave, Parramatta 2150
Locked Bag 5020 Parramatta NSW 2124
Tel: (02) 9585 6345

ABN 34 945 244 274
Email: ahims@environment.nsw.gov.au
Web: www.heritage.nsw.gov.au

# AHIMS Web Services (AWS)
## Search Result

Your Ref/PO Number : 23115b

Client Service ID : 832440

Apex Archaeology

PO BOX 236

Nowra New South Wales 2541

Attention: Leigh Bate

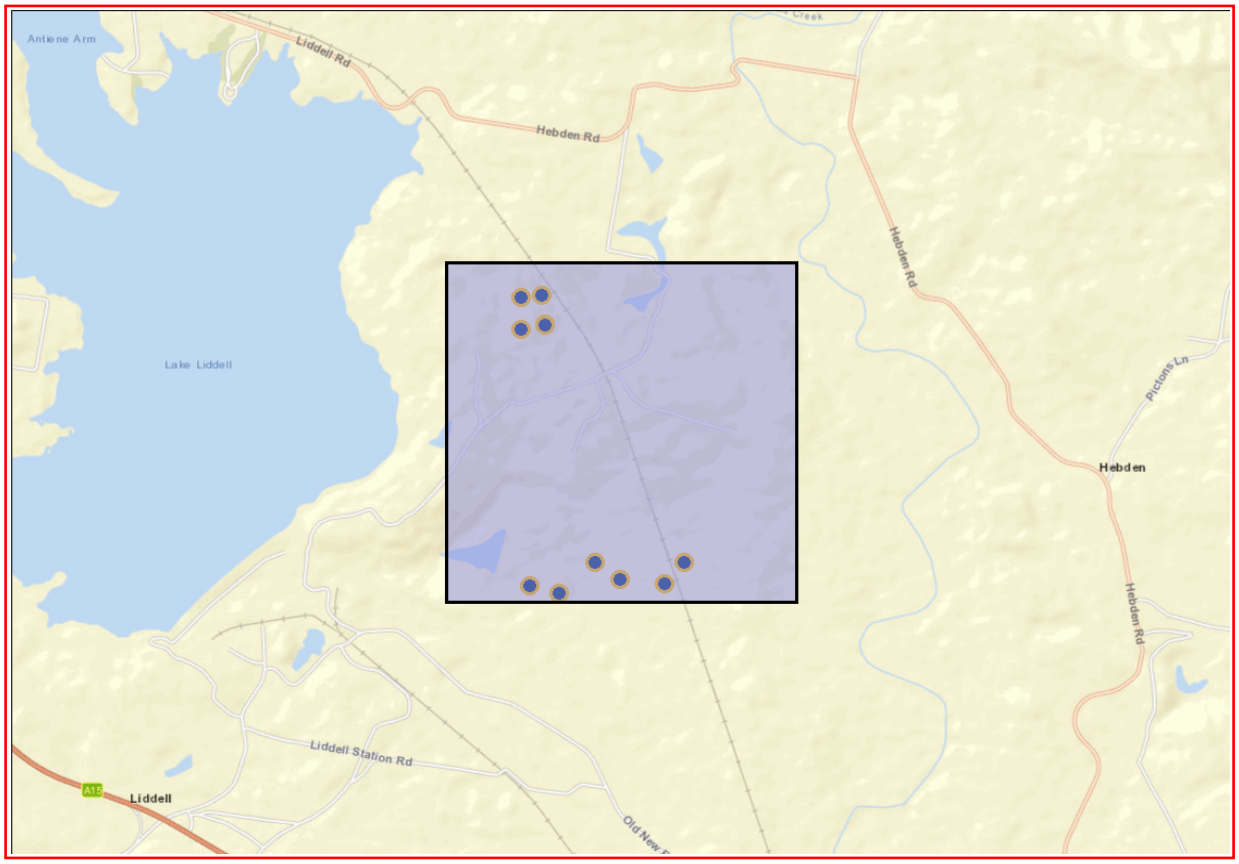
Email: leigh@apexarchaeology.com.au

Date: 24 October 2023

Dear Sir or Madam:

**AHIMS Web Service search for the following area at Datum :GDA, Zone : 56, Eastings : 312970.0 - 315520.0, Northings : 6414640.0 - 6417150.0 with a Buffer of 0 meters, conducted by Leigh Bate on 24 October 2023.**

**The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.**




A search of Heritage NSW AHIMS Web Services (Aboriginal Heritage Information Management System) has shown that:

| | |
|---|---|
| 11 | **Aboriginal sites are recorded in or near the above location.** |
| 0 | **Aboriginal places have been declared in or near the above location. *** |

**If your search shows Aboriginal sites or places what should you do?**

- You must do an extensive search if AHIMS has shown that there are Aboriginal sites or places recorded in the search area.
- If you are checking AHIMS as a part of your due diligence, refer to the next steps of the Due Diligence Code of practice.
- You can get further information about Aboriginal places by looking at the gazettal notice that declared it. Aboriginal places gazetted after 2001 are available on the NSW Government Gazette (https://www.legislation.nsw.gov.au/gazette) website. Gazettal notices published prior to 2001 can be obtained from Heritage NSW upon request

**Important information about your AHIMS search**

- The information derived from the AHIMS search is only to be used for the purpose for which it was requested. It is not be made available to the public.
- AHIMS records information about Aboriginal sites that have been provided to Heritage NSW and Aboriginal places that have been declared by the Minister;
- Information recorded on AHIMS may vary in its accuracy and may not be up to date. Location details are recorded as grid references and it is important to note that there may be errors or omissions in these recordings,
- Some parts of New South Wales have not been investigated in detail and there may be fewer records of Aboriginal sites in those areas. These areas may contain Aboriginal sites which are not recorded on AHIMS.
- Aboriginal objects are protected under the National Parks and Wildlife Act 1974 even if they are not recorded as a site on AHIMS.
- This search can form part of your due diligence and remains valid for 12 months.

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Email: ahims@environment.nsw.gov.au
Web: www.heritage.nsw.gov.au

# AHIMS Web Services (AWS)
## Search Result

Your Ref/PO Number : 23115c

Client Service ID : 832441

Apex Archaeology

PO BOX 236

Nowra New South Wales 2541

Attention: Leigh Bate

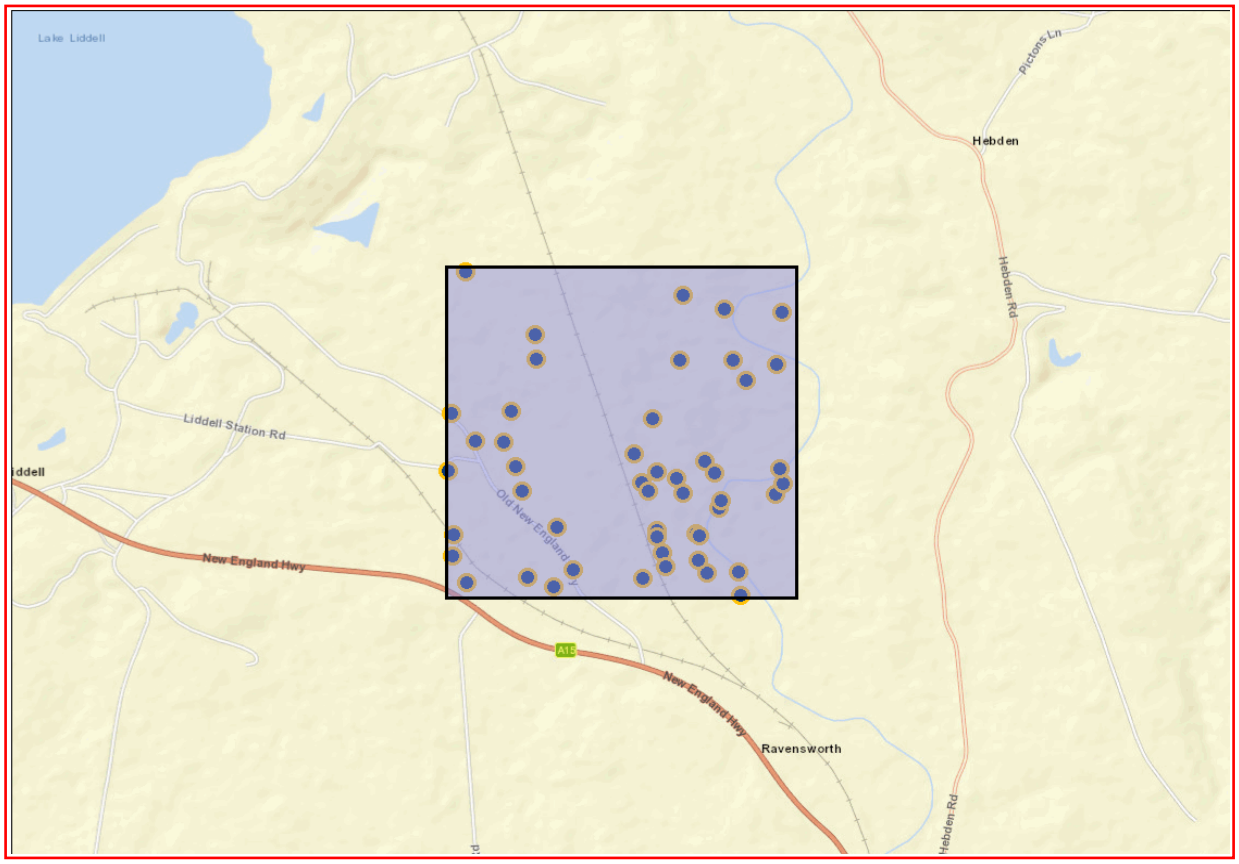
Email: leigh@apexarchaeology.com.au

Date: 24 October 2023

Dear Sir or Madam:

**AHIMS Web Service search for the following area at Datum :GDA, Zone : 56, Eastings : 313957.0 - 316507.0, Northings : 6412224.0 - 6414670.0 with a Buffer of 0 meters, conducted by Leigh Bate on 24 October 2023.**

**The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.**




A search of Heritage NSW AHIMS Web Services (Aboriginal Heritage Information Management System) has shown that:

| | |
|---|---|
| 55 | Aboriginal sites are recorded in or near the above location. |
| 0 | Aboriginal places have been declared in or near the above location. * |

**If your search shows Aboriginal sites or places what should you do?**

- You must do an extensive search if AHIMS has shown that there are Aboriginal sites or places recorded in the search area.
- If you are checking AHIMS as a part of your due diligence, refer to the next steps of the Due Diligence Code of practice.
- You can get further information about Aboriginal places by looking at the gazettal notice that declared it. Aboriginal places gazetted after 2001 are available on the NSW Government Gazette (https://www.legislation.nsw.gov.au/gazette) website. Gazettal notices published prior to 2001 can be obtained from Heritage NSW upon request

**Important information about your AHIMS search**

- The information derived from the AHIMS search is only to be used for the purpose for which it was requested. It is not be made available to the public.
- AHIMS records information about Aboriginal sites that have been provided to Heritage NSW and Aboriginal places that have been declared by the Minister;
- Information recorded on AHIMS may vary in its accuracy and may not be up to date. Location details are recorded as grid references and it is important to note that there may be errors or omissions in these recordings,
- Some parts of New South Wales have not been investigated in detail and there may be fewer records of Aboriginal sites in those areas. These areas may contain Aboriginal sites which are not recorded on AHIMS.
- Aboriginal objects are protected under the National Parks and Wildlife Act 1974 even if they are not recorded as a site on AHIMS.
- This search can form part of your due diligence and remains valid for 12 months.

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ABN 34 945 244 274
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Web: www.heritage.nsw.gov.au

# AHIMS Web Services (AWS)
## Search Result

Your Ref/PO Number : 23115d

Client Service ID : 832442

Apex Archaeology

PO BOX 236

Nowra New South Wales 2541

Attention: Leigh Bate

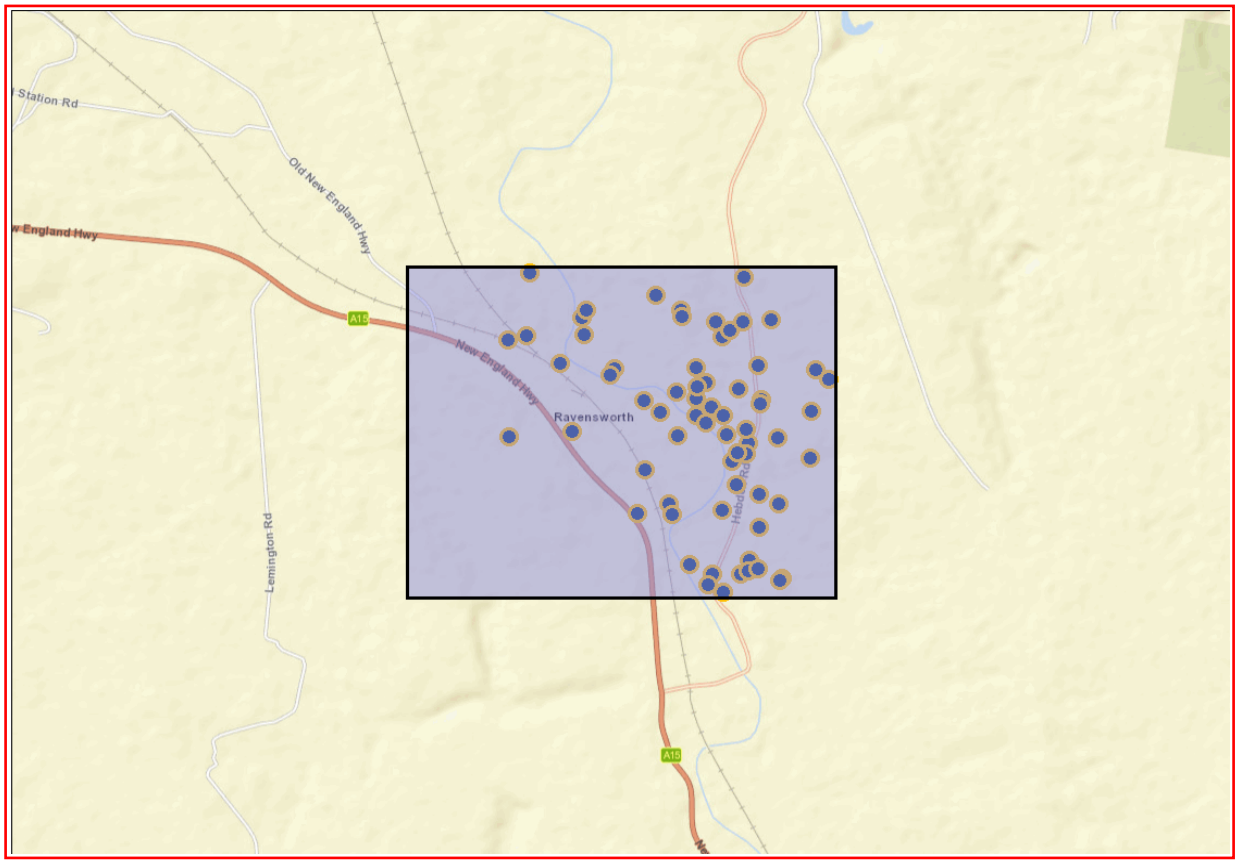
Email: leigh@apexarchaeology.com.au

Date: 24 October 2023

Dear Sir or Madam:

**AHIMS Web Service search for the following area at Datum :GDA, Zone : 56, Eastings : 315250.0 - 318386.0, Northings : 6409755.0 - 6412191.0 with a Buffer of 0 meters, conducted by Leigh Bate on 24 October 2023.**

**The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.**




A search of Heritage NSW AHIMS Web Services (Aboriginal Heritage Information Management System) has shown that:

| | |
|---|---|
| 67 | Aboriginal sites are recorded in or near the above location. |
| 0 | Aboriginal places have been declared in or near the above location. * |

**If your search shows Aboriginal sites or places what should you do?**

- You must do an extensive search if AHIMS has shown that there are Aboriginal sites or places recorded in the search area.
- If you are checking AHIMS as a part of your due diligence, refer to the next steps of the Due Diligence Code of practice.
- You can get further information about Aboriginal places by looking at the gazettal notice that declared it. Aboriginal places gazetted after 2001 are available on the NSW Government Gazette (https://www.legislation.nsw.gov.au/gazette) website. Gazettal notices published prior to 2001 can be obtained from Heritage NSW upon request

**Important information about your AHIMS search**

- The information derived from the AHIMS search is only to be used for the purpose for which it was requested. It is not be made available to the public.
- AHIMS records information about Aboriginal sites that have been provided to Heritage NSW and Aboriginal places that have been declared by the Minister;
- Information recorded on AHIMS may vary in its accuracy and may not be up to date. Location details are recorded as grid references and it is important to note that there may be errors or omissions in these recordings,
- Some parts of New South Wales have not been investigated in detail and there may be fewer records of Aboriginal sites in those areas. These areas may contain Aboriginal sites which are not recorded on AHIMS.
- Aboriginal objects are protected under the National Parks and Wildlife Act 1974 even if they are not recorded as a site on AHIMS.
- This search can form part of your due diligence and remains valid for 12 months.

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# AHIMS Web Services (AWS)
## Search Result

Your Ref/PO Number : 23115e

Client Service ID : 832444

Apex Archaeology

PO BOX 236

Nowra New South Wales 2541

Attention: Leigh Bate

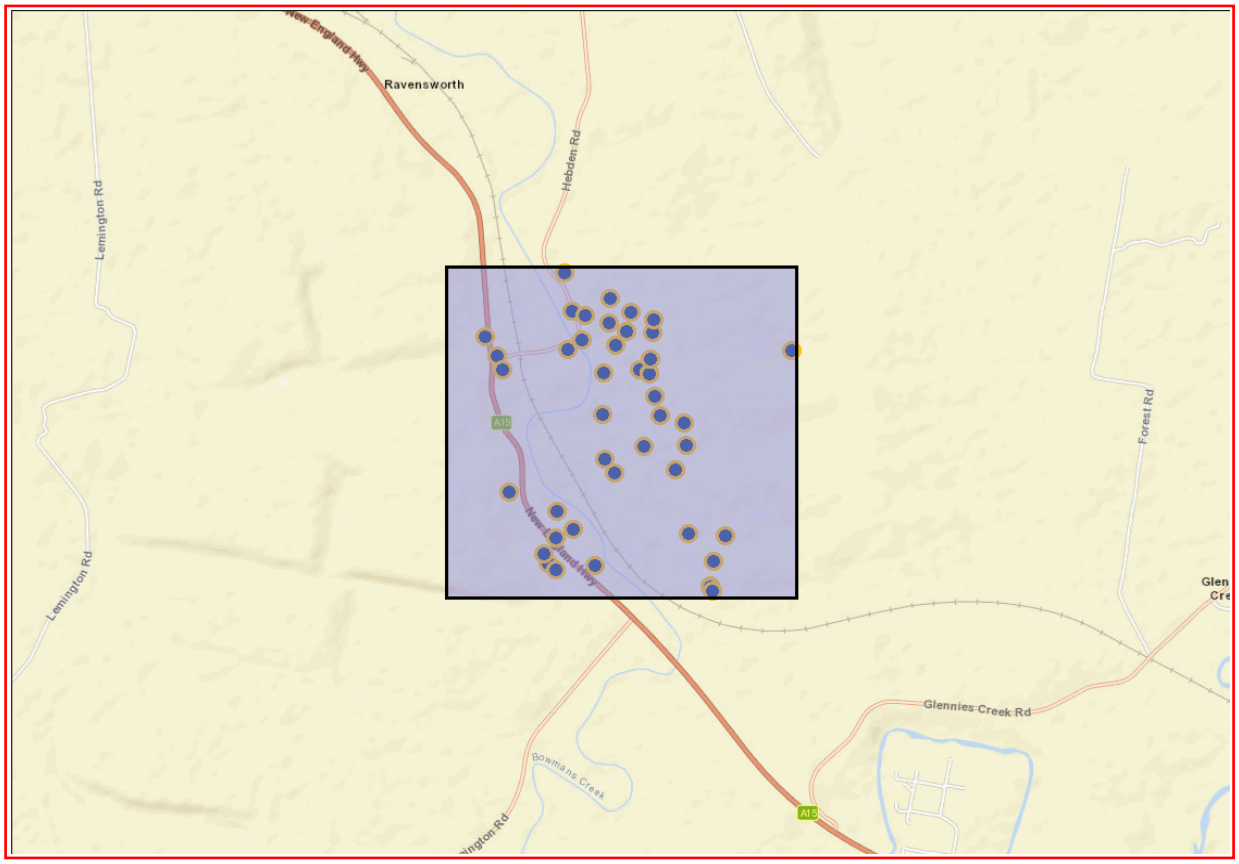
Email: leigh@apexarchaeology.com.au

Date: 24 October 2023

Dear Sir or Madam:

**AHIMS Web Service search for the following area at Datum :GDA, Zone : 56, Eastings : 316849.0 - 319397.0, Northings : 6407263.0 - 6409709.0 with a Buffer of 0 meters, conducted by Leigh Bate on 24 October 2023.**

**The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.**




A search of Heritage NSW AHIMS Web Services (Aboriginal Heritage Information Management System) has shown that:

| | |
|---|---|
| 45 | Aboriginal sites are recorded in or near the above location. |
| 0 | Aboriginal places have been declared in or near the above location. * |

**If your search shows Aboriginal sites or places what should you do?**

- You must do an extensive search if AHIMS has shown that there are Aboriginal sites or places recorded in the search area.
- If you are checking AHIMS as a part of your due diligence, refer to the next steps of the Due Diligence Code of practice.
- You can get further information about Aboriginal places by looking at the gazettal notice that declared it. Aboriginal places gazetted after 2001 are available on the NSW Government Gazette (https://www.legislation.nsw.gov.au/gazette) website. Gazettal notices published prior to 2001 can be obtained from Heritage NSW upon request

**Important information about your AHIMS search**

- The information derived from the AHIMS search is only to be used for the purpose for which it was requested. It is not be made available to the public.
- AHIMS records information about Aboriginal sites that have been provided to Heritage NSW and Aboriginal places that have been declared by the Minister;
- Information recorded on AHIMS may vary in its accuracy and may not be up to date. Location details are recorded as grid references and it is important to note that there may be errors or omissions in these recordings,
- Some parts of New South Wales have not been investigated in detail and there may be fewer records of Aboriginal sites in those areas. These areas may contain Aboriginal sites which are not recorded on AHIMS.
- Aboriginal objects are protected under the National Parks and Wildlife Act 1974 even if they are not recorded as a site on AHIMS.
- This search can form part of your due diligence and remains valid for 12 months.

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Email: ahims@environment.nsw.gov.au
Web: www.heritage.nsw.gov.au

# AHIMS Web Services (AWS)
## Search Result

Your Ref/PO Number : 23115f

Client Service ID : 832445

Apex Archaeology

PO BOX 236

Nowra New South Wales 2541

Attention: Leigh Bate

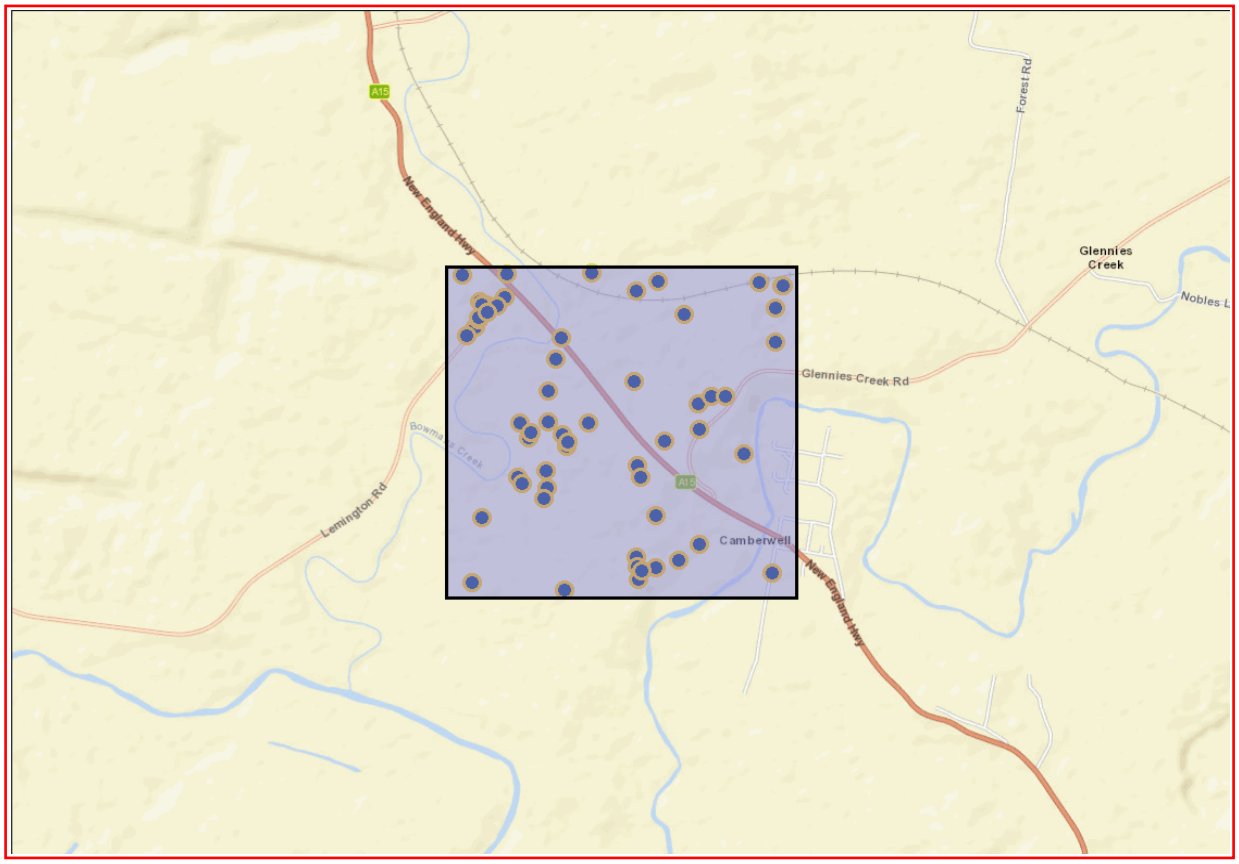
Email: leigh@apexarchaeology.com.au

Date: 24 October 2023

Dear Sir or Madam:

**AHIMS Web Service search for the following area at Datum :GDA, Zone : 56, Eastings : 317800.0 - 320347.0, Northings : 6404784.0 - 6407230.0 with a Buffer of 0 meters, conducted by Leigh Bate on 24 October 2023.**

**The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.**




A search of Heritage NSW AHIMS Web Services (Aboriginal Heritage Information Management System) has shown that:

| | |
|---|---|
| 59 | Aboriginal sites are recorded in or near the above location. |
| 0 | Aboriginal places have been declared in or near the above location. * |

**If your search shows Aboriginal sites or places what should you do?**

- You must do an extensive search if AHIMS has shown that there are Aboriginal sites or places recorded in the search area.
- If you are checking AHIMS as a part of your due diligence, refer to the next steps of the Due Diligence Code of practice.
- You can get further information about Aboriginal places by looking at the gazettal notice that declared it. Aboriginal places gazetted after 2001 are available on the NSW Government Gazette (https://www.legislation.nsw.gov.au/gazette) website. Gazettal notices published prior to 2001 can be obtained from Heritage NSW upon request

**Important information about your AHIMS search**

- The information derived from the AHIMS search is only to be used for the purpose for which it was requested. It is not be made available to the public.
- AHIMS records information about Aboriginal sites that have been provided to Heritage NSW and Aboriginal places that have been declared by the Minister;
- Information recorded on AHIMS may vary in its accuracy and may not be up to date. Location details are recorded as grid references and it is important to note that there may be errors or omissions in these recordings,
- Some parts of New South Wales have not been investigated in detail and there may be fewer records of Aboriginal sites in those areas. These areas may contain Aboriginal sites which are not recorded on AHIMS.
- Aboriginal objects are protected under the National Parks and Wildlife Act 1974 even if they are not recorded as a site on AHIMS.
- This search can form part of your due diligence and remains valid for 12 months.

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ABN 34 945 244 274
Email: ahims@environment.nsw.gov.au
Web: www.heritage.nsw.gov.au

# AHIMS Web Services (AWS)
## Search Result

Your Ref/PO Number : 23115g

Client Service ID : 832446

Apex Archaeology

PO BOX 236

Nowra New South Wales 2541

Attention: Leigh Bate

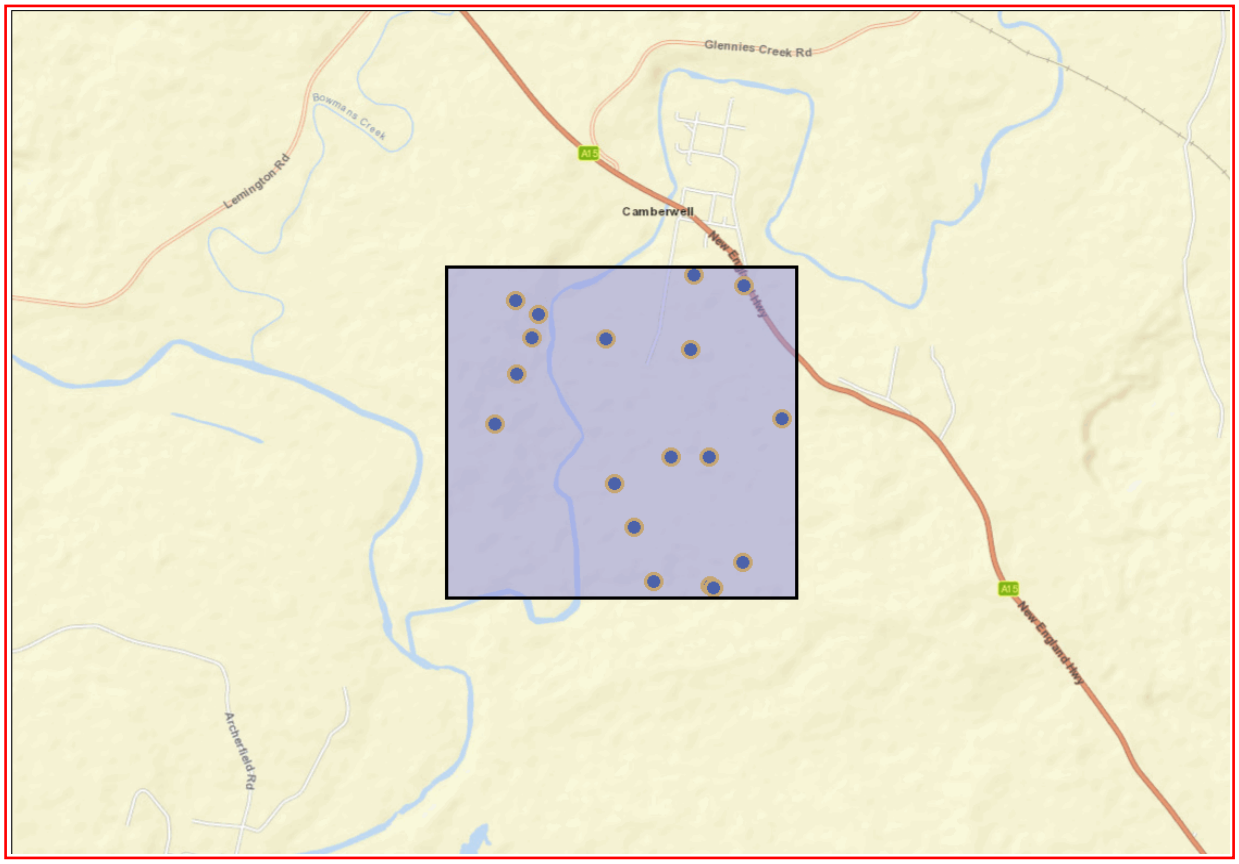
Email: leigh@apexarchaeology.com.au

Date: 24 October 2023

Dear Sir or Madam:

**AHIMS Web Service search for the following area at Datum :GDA, Zone : 56, Eastings : 318565.0 - 321112.0, Northings : 6402317.0 - 6404764.0 with a Buffer of 0 meters, conducted by Leigh Bate on 24 October 2023.**

**The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.**




A search of Heritage NSW AHIMS Web Services (Aboriginal Heritage Information Management System) has shown that:

| | |
|---|---|
| 18 | Aboriginal sites are recorded in or near the above location. |
| 0 | Aboriginal places have been declared in or near the above location. * |

**If your search shows Aboriginal sites or places what should you do?**

- You must do an extensive search if AHIMS has shown that there are Aboriginal sites or places recorded in the search area.
- If you are checking AHIMS as a part of your due diligence, refer to the next steps of the Due Diligence Code of practice.
- You can get further information about Aboriginal places by looking at the gazettal notice that declared it. Aboriginal places gazetted after 2001 are available on the NSW Government Gazette (https://www.legislation.nsw.gov.au/gazette) website. Gazettal notices published prior to 2001 can be obtained from Heritage NSW upon request

**Important information about your AHIMS search**

- The information derived from the AHIMS search is only to be used for the purpose for which it was requested. It is not be made available to the public.
- AHIMS records information about Aboriginal sites that have been provided to Heritage NSW and Aboriginal places that have been declared by the Minister;
- Information recorded on AHIMS may vary in its accuracy and may not be up to date. Location details are recorded as grid references and it is important to note that there may be errors or omissions in these recordings,
- Some parts of New South Wales have not been investigated in detail and there may be fewer records of Aboriginal sites in those areas. These areas may contain Aboriginal sites which are not recorded on AHIMS.
- Aboriginal objects are protected under the National Parks and Wildlife Act 1974 even if they are not recorded as a site on AHIMS.
- This search can form part of your due diligence and remains valid for 12 months.

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ABN 34 945 244 274
Email: ahims@environment.nsw.gov.au
Web: www.heritage.nsw.gov.au

# AHIMS Web Services (AWS)
## Search Result

Your Ref/PO Number : 23115h

Client Service ID : 832447

Apex Archaeology

PO BOX 236

Nowra New South Wales 2541

Attention: Leigh Bate

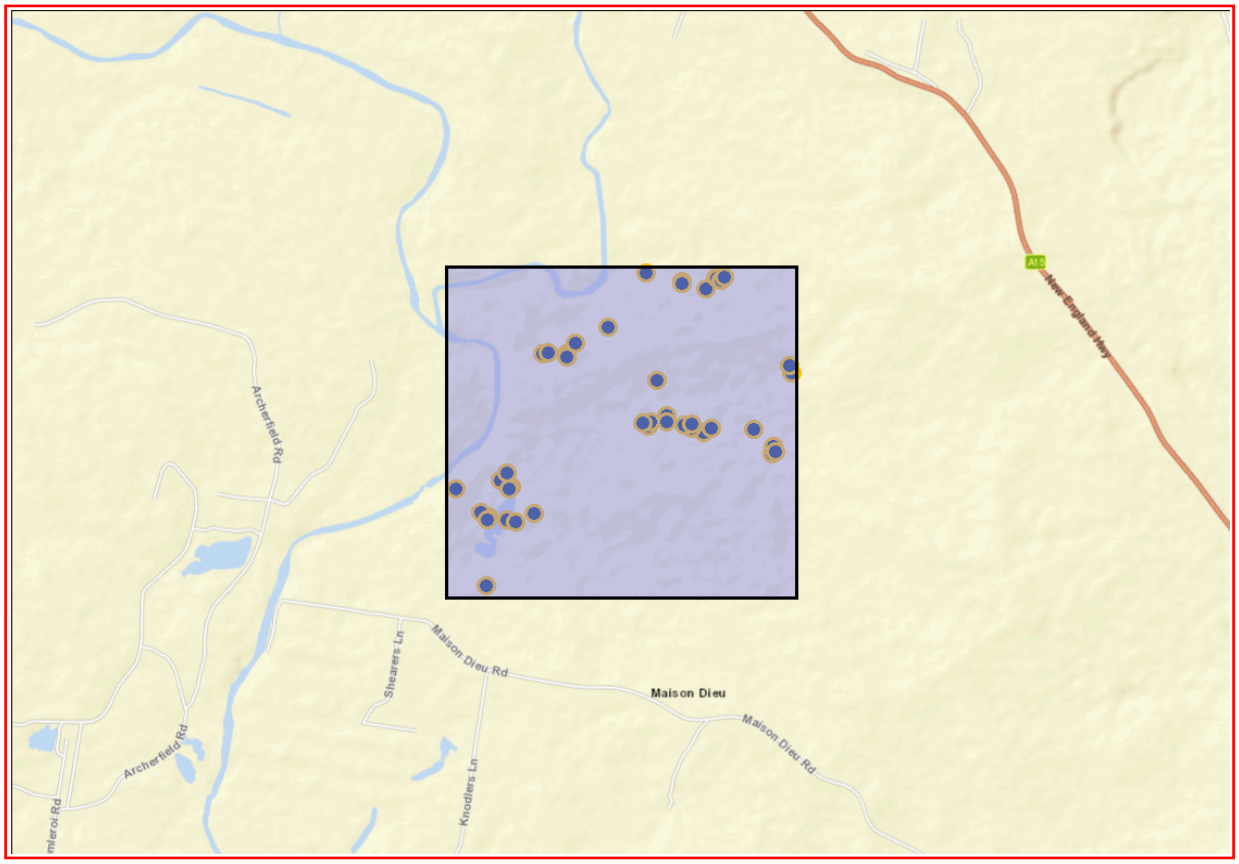
Email: leigh@apexarchaeology.com.au

Date: 24 October 2023

Dear Sir or Madam:

**AHIMS Web Service search for the following area at Datum :GDA, Zone : 56, Eastings : 318409.0 - 320956.0, Northings : 6399851.0 - 6402298.0 with a Buffer of 0 meters, conducted by Leigh Bate on 24 October 2023.**

**The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.**




A search of Heritage NSW AHIMS Web Services (Aboriginal Heritage Information Management System) has shown that:

| | |
|---|---|
| 44 | Aboriginal sites are recorded in or near the above location. |
| 0 | Aboriginal places have been declared in or near the above location. * |

**If your search shows Aboriginal sites or places what should you do?**

- You must do an extensive search if AHIMS has shown that there are Aboriginal sites or places recorded in the search area.
- If you are checking AHIMS as a part of your due diligence, refer to the next steps of the Due Diligence Code of practice.
- You can get further information about Aboriginal places by looking at the gazettal notice that declared it. Aboriginal places gazetted after 2001 are available on the NSW Government Gazette (https://www.legislation.nsw.gov.au/gazette) website. Gazettal notices published prior to 2001 can be obtained from Heritage NSW upon request

**Important information about your AHIMS search**

- The information derived from the AHIMS search is only to be used for the purpose for which it was requested. It is not be made available to the public.
- AHIMS records information about Aboriginal sites that have been provided to Heritage NSW and Aboriginal places that have been declared by the Minister;
- Information recorded on AHIMS may vary in its accuracy and may not be up to date. Location details are recorded as grid references and it is important to note that there may be errors or omissions in these recordings,
- Some parts of New South Wales have not been investigated in detail and there may be fewer records of Aboriginal sites in those areas. These areas may contain Aboriginal sites which are not recorded on AHIMS.
- Aboriginal objects are protected under the National Parks and Wildlife Act 1974 even if they are not recorded as a site on AHIMS.
- This search can form part of your due diligence and remains valid for 12 months.

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ABN 34 945 244 274
Email: ahims@environment.nsw.gov.au
Web: www.heritage.nsw.gov.au

# AHIMS Web Services (AWS)
## Search Result

Your Ref/PO Number : 23115i

Client Service ID : 832448

Apex Archaeology

PO BOX 236

Nowra New South Wales 2541

Attention: Leigh Bate

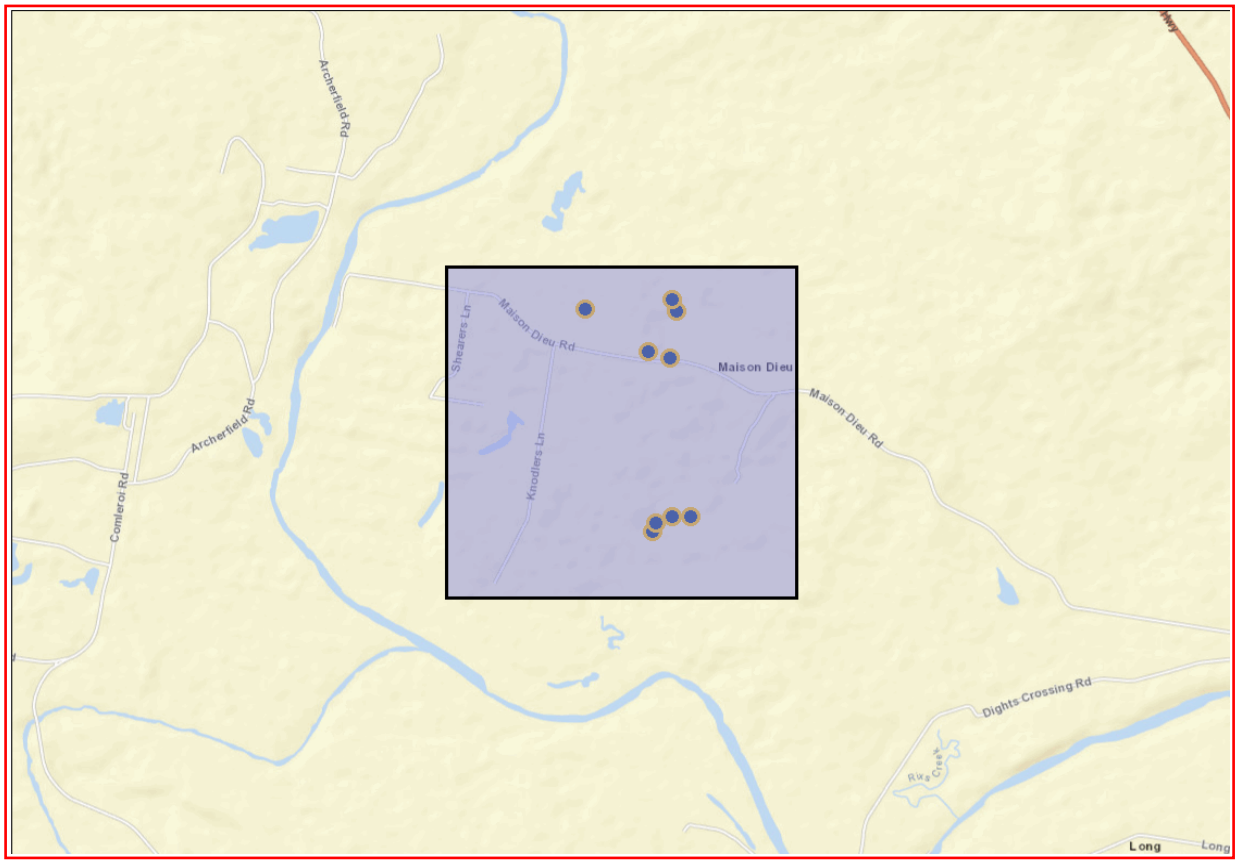
Email: leigh@apexarchaeology.com.au

Date: 24 October 2023

Dear Sir or Madam:

**AHIMS Web Service search for the following area at Datum :GDA, Zone : 56, Eastings : 317956.0 - 320502.0, Northings : 6397386.0 - 6399832.0 with a Buffer of 0 meters, conducted by Leigh Bate on 24 October 2023.**

**The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.**




A search of Heritage NSW AHIMS Web Services (Aboriginal Heritage Information Management System) has shown that:

| | |
|---|---|
| 9 | **Aboriginal sites are recorded in or near the above location.** |
| 0 | **Aboriginal places have been declared in or near the above location. *** |

**If your search shows Aboriginal sites or places what should you do?**

- You must do an extensive search if AHIMS has shown that there are Aboriginal sites or places recorded in the search area.
- If you are checking AHIMS as a part of your due diligence, refer to the next steps of the Due Diligence Code of practice.
- You can get further information about Aboriginal places by looking at the gazettal notice that declared it. Aboriginal places gazetted after 2001 are available on the NSW Government Gazette (https://www.legislation.nsw.gov.au/gazette) website. Gazettal notices published prior to 2001 can be obtained from Heritage NSW upon request

**Important information about your AHIMS search**

- The information derived from the AHIMS search is only to be used for the purpose for which it was requested. It is not be made available to the public.
- AHIMS records information about Aboriginal sites that have been provided to Heritage NSW and Aboriginal places that have been declared by the Minister;
- Information recorded on AHIMS may vary in its accuracy and may not be up to date. Location details are recorded as grid references and it is important to note that there may be errors or omissions in these recordings,
- Some parts of New South Wales have not been investigated in detail and there may be fewer records of Aboriginal sites in those areas. These areas may contain Aboriginal sites which are not recorded on AHIMS.
- Aboriginal objects are protected under the National Parks and Wildlife Act 1974 even if they are not recorded as a site on AHIMS.
- This search can form part of your due diligence and remains valid for 12 months.

Level 6, 10 Valentine Ave, Parramatta 2150
Locked Bag 5020 Parramatta NSW 2124
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ABN 34 945 244 274
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Web: www.heritage.nsw.gov.au

# AHIMS Web Services (AWS)
## Search Result

Your Ref/PO Number : 23115j

Client Service ID : 832449

Apex Archaeology

PO BOX 236

Nowra New South Wales 2541

Attention: Leigh Bate

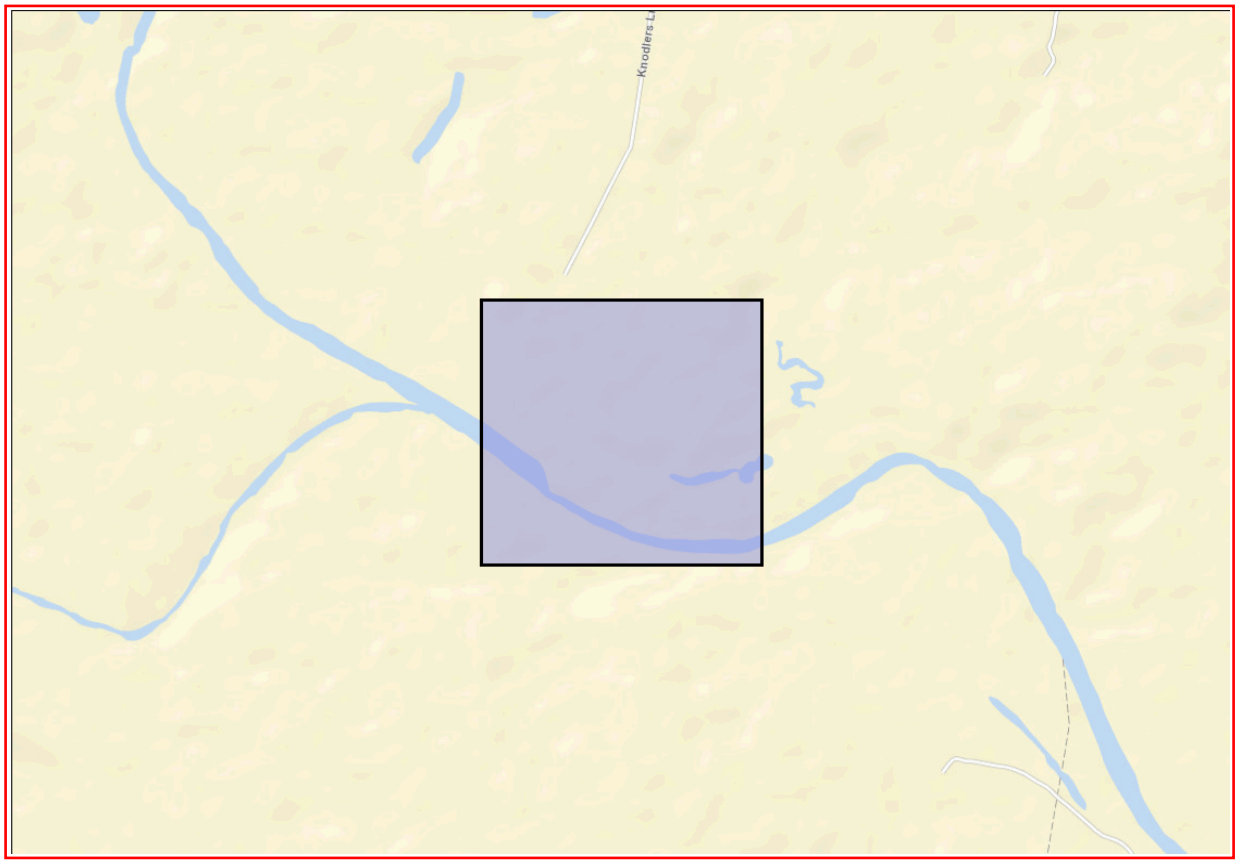
Email: leigh@apexarchaeology.com.au

Date: 24 October 2023

Dear Sir or Madam:

**AHIMS Web Service search for the following area at Datum :GDA, Zone : 56, Eastings : 318022.0 - 319042.0, Northings : 6396377.0 - 6397356.0 with a Buffer of 0 meters, conducted by Leigh Bate on 24 October 2023.**

**The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.**



A search of Heritage NSW AHIMS Web Services (Aboriginal Heritage Information Management System) has shown that:

| | |
|---|---|
| 0 | **Aboriginal sites are recorded in or near the above location.** |
| 0 | **Aboriginal places have been declared in or near the above location. *** |

**If your search shows Aboriginal sites or places what should you do?**

- You must do an extensive search if AHIMS has shown that there are Aboriginal sites or places recorded in the search area.
- If you are checking AHIMS as a part of your due diligence, refer to the next steps of the Due Diligence Code of practice.
- You can get further information about Aboriginal places by looking at the gazettal notice that declared it. Aboriginal places gazetted after 2001 are available on the NSW Government Gazette (https://www.legislation.nsw.gov.au/gazette) website. Gazettal notices published prior to 2001 can be obtained from Heritage NSW upon request

**Important information about your AHIMS search**

- The information derived from the AHIMS search is only to be used for the purpose for which it was requested. It is not be made available to the public.
- AHIMS records information about Aboriginal sites that have been provided to Heritage NSW and Aboriginal places that have been declared by the Minister;
- Information recorded on AHIMS may vary in its accuracy and may not be up to date. Location details are recorded as grid references and it is important to note that there may be errors or omissions in these recordings,
- Some parts of New South Wales have not been investigated in detail and there may be fewer records of Aboriginal sites in those areas. These areas may contain Aboriginal sites which are not recorded on AHIMS.
- Aboriginal objects are protected under the National Parks and Wildlife Act 1974 even if they are not recorded as a site on AHIMS.
- This search can form part of your due diligence and remains valid for 12 months.

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# AHIMS Web Services (AWS)
## Search Result

Your Ref/PO Number : 23115k

Client Service ID : 832450

Apex Archaeology

PO BOX 236

Nowra New South Wales 2541

Attention: Leigh Bate

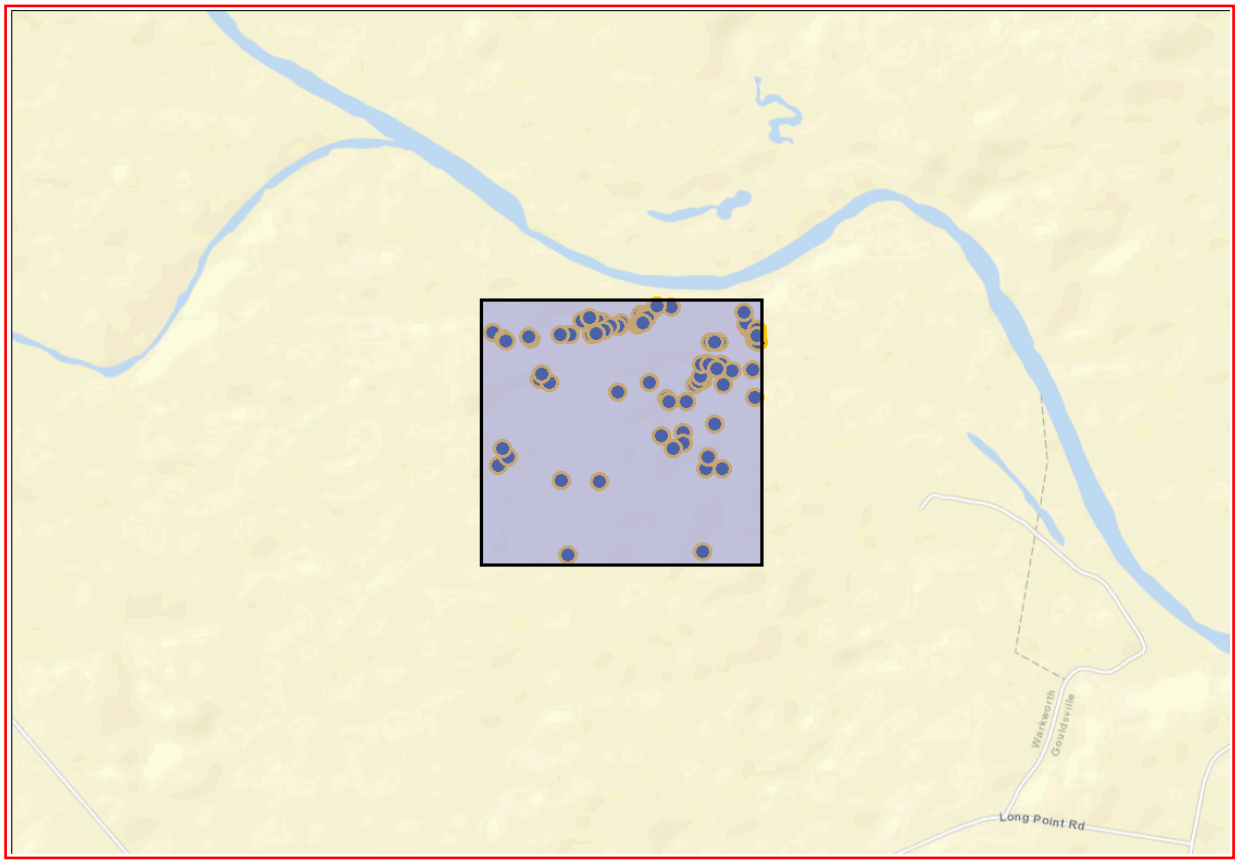
Email: leigh@apexarchaeology.com.au

Date: 24 October 2023

Dear Sir or Madam:

**AHIMS Web Service search for the following area at Datum :GDA, Zone : 56, Eastings : 318121.0 - 319141.0, Northings : 6395385.0 - 6396364.0 with a Buffer of 0 meters, conducted by Leigh Bate on 24 October 2023.**

**The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.**




A search of Heritage NSW AHIMS Web Services (Aboriginal Heritage Information Management System) has shown that:

| | |
|---|---|
| 81 | Aboriginal sites are recorded in or near the above location. |
| 0 | Aboriginal places have been declared in or near the above location. * |

**If your search shows Aboriginal sites or places what should you do?**

- You must do an extensive search if AHIMS has shown that there are Aboriginal sites or places recorded in the search area.
- If you are checking AHIMS as a part of your due diligence, refer to the next steps of the Due Diligence Code of practice.
- You can get further information about Aboriginal places by looking at the gazettal notice that declared it. Aboriginal places gazetted after 2001 are available on the NSW Government Gazette (https://www.legislation.nsw.gov.au/gazette) website. Gazettal notices published prior to 2001 can be obtained from Heritage NSW upon request

**Important information about your AHIMS search**

- The information derived from the AHIMS search is only to be used for the purpose for which it was requested. It is not be made available to the public.
- AHIMS records information about Aboriginal sites that have been provided to Heritage NSW and Aboriginal places that have been declared by the Minister;
- Information recorded on AHIMS may vary in its accuracy and may not be up to date. Location details are recorded as grid references and it is important to note that there may be errors or omissions in these recordings,
- Some parts of New South Wales have not been investigated in detail and there may be fewer records of Aboriginal sites in those areas. These areas may contain Aboriginal sites which are not recorded on AHIMS.
- Aboriginal objects are protected under the National Parks and Wildlife Act 1974 even if they are not recorded as a site on AHIMS.
- This search can form part of your due diligence and remains valid for 12 months.

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# AHIMS Web Services (AWS)
## Search Result

Your Ref/PO Number : 23115l

Client Service ID : 832451

Apex Archaeology

PO BOX 236

Nowra New South Wales 2541

Attention: Leigh Bate

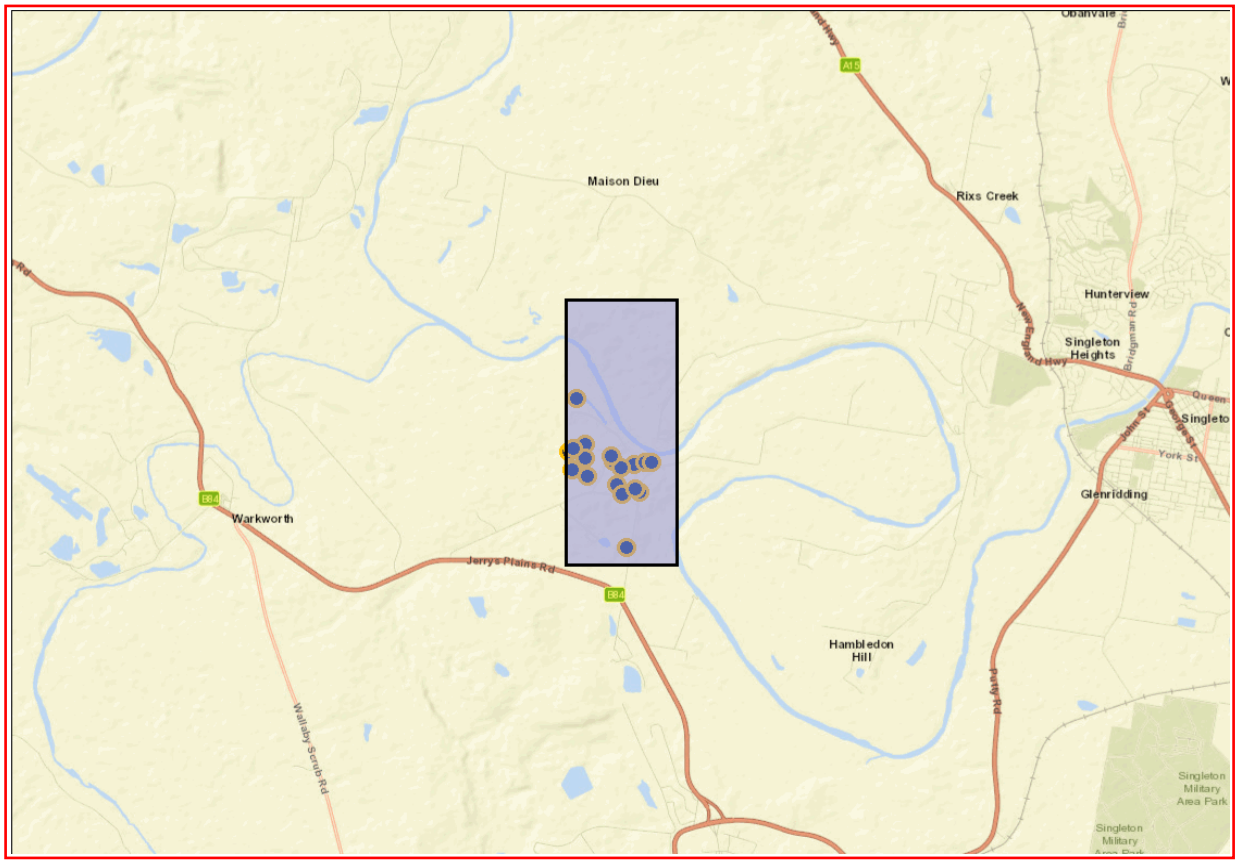
Email: leigh@apexarchaeology.com.au

Date: 24 October 2023

Dear Sir or Madam:

**AHIMS Web Service search for the following area at Datum :GDA, Zone : 56, Eastings : 319710.0 - 321283.0, Northings : 6393390.0 - 6397350.0 with a Buffer of 0 meters, conducted by Leigh Bate on 24 October 2023.**

**The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.**




A search of Heritage NSW AHIMS Web Services (Aboriginal Heritage Information Management System) has shown that:

| | |
|---|---|
| 18 | Aboriginal sites are recorded in or near the above location. |
| 0 | Aboriginal places have been declared in or near the above location. * |

**If your search shows Aboriginal sites or places what should you do?**

- You must do an extensive search if AHIMS has shown that there are Aboriginal sites or places recorded in the search area.
- If you are checking AHIMS as a part of your due diligence, refer to the next steps of the Due Diligence Code of practice.
- You can get further information about Aboriginal places by looking at the gazettal notice that declared it. Aboriginal places gazetted after 2001 are available on the NSW Government Gazette (https://www.legislation.nsw.gov.au/gazette) website. Gazettal notices published prior to 2001 can be obtained from Heritage NSW upon request

**Important information about your AHIMS search**

- The information derived from the AHIMS search is only to be used for the purpose for which it was requested. It is not be made available to the public.
- AHIMS records information about Aboriginal sites that have been provided to Heritage NSW and Aboriginal places that have been declared by the Minister;
- Information recorded on AHIMS may vary in its accuracy and may not be up to date. Location details are recorded as grid references and it is important to note that there may be errors or omissions in these recordings,
- Some parts of New South Wales have not been investigated in detail and there may be fewer records of Aboriginal sites in those areas. These areas may contain Aboriginal sites which are not recorded on AHIMS.
- Aboriginal objects are protected under the National Parks and Wildlife Act 1974 even if they are not recorded as a site on AHIMS.
- This search can form part of your due diligence and remains valid for 12 months.

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# AHIMS Web Services (AWS)
## Search Result

Your Ref/PO Number : 23115m

Client Service ID : 832452

Apex Archaeology

PO BOX 236

Nowra New South Wales 2541

Attention: Leigh Bate

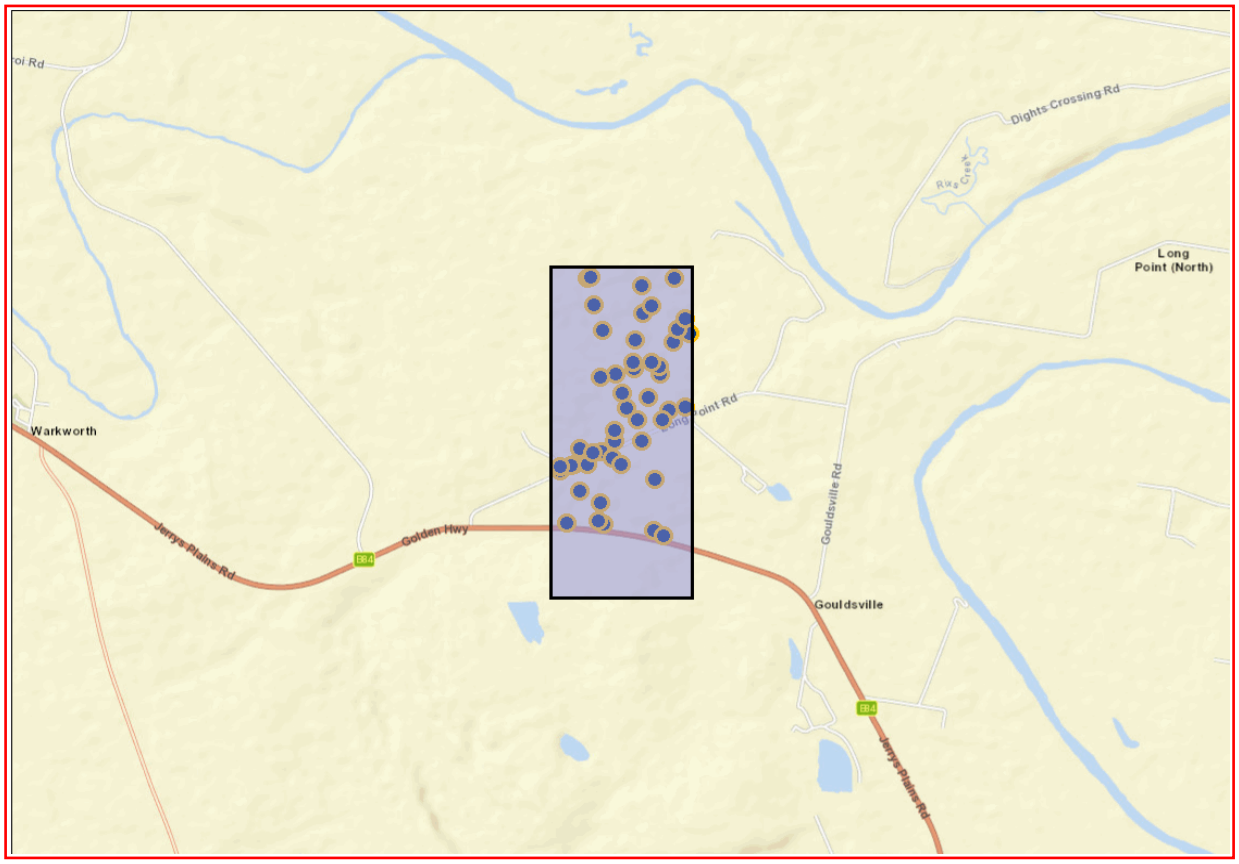
Email: leigh@apexarchaeology.com.au

Date: 24 October 2023

Dear Sir or Madam:

**AHIMS Web Service search for the following area at Datum :GDA, Zone : 56, Eastings : 318599.0 - 319600.0, Northings : 6392900.0 - 6395376.0 with a Buffer of 0 meters, conducted by Leigh Bate on 24 October 2023.**

**The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.**




A search of Heritage NSW AHIMS Web Services (Aboriginal Heritage Information Management System) has shown that:

| | |
|---|---|
| 49 | Aboriginal sites are recorded in or near the above location. |
| 0 | Aboriginal places have been declared in or near the above location. * |

**If your search shows Aboriginal sites or places what should you do?**

- You must do an extensive search if AHIMS has shown that there are Aboriginal sites or places recorded in the search area.
- If you are checking AHIMS as a part of your due diligence, refer to the next steps of the Due Diligence Code of practice.
- You can get further information about Aboriginal places by looking at the gazettal notice that declared it. Aboriginal places gazetted after 2001 are available on the NSW Government Gazette (https://www.legislation.nsw.gov.au/gazette) website. Gazettal notices published prior to 2001 can be obtained from Heritage NSW upon request

**Important information about your AHIMS search**

- The information derived from the AHIMS search is only to be used for the purpose for which it was requested. It is not be made available to the public.
- AHIMS records information about Aboriginal sites that have been provided to Heritage NSW and Aboriginal places that have been declared by the Minister;
- Information recorded on AHIMS may vary in its accuracy and may not be up to date. Location details are recorded as grid references and it is important to note that there may be errors or omissions in these recordings,
- Some parts of New South Wales have not been investigated in detail and there may be fewer records of Aboriginal sites in those areas. These areas may contain Aboriginal sites which are not recorded on AHIMS.
- Aboriginal objects are protected under the National Parks and Wildlife Act 1974 even if they are not recorded as a site on AHIMS.
- This search can form part of your due diligence and remains valid for 12 months.

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# AHIMS Web Services (AWS)
## Search Result

Your Ref/PO Number : 23115n

Client Service ID : 832453

Apex Archaeology

PO BOX 236

Nowra New South Wales 2541

Attention: Leigh Bate

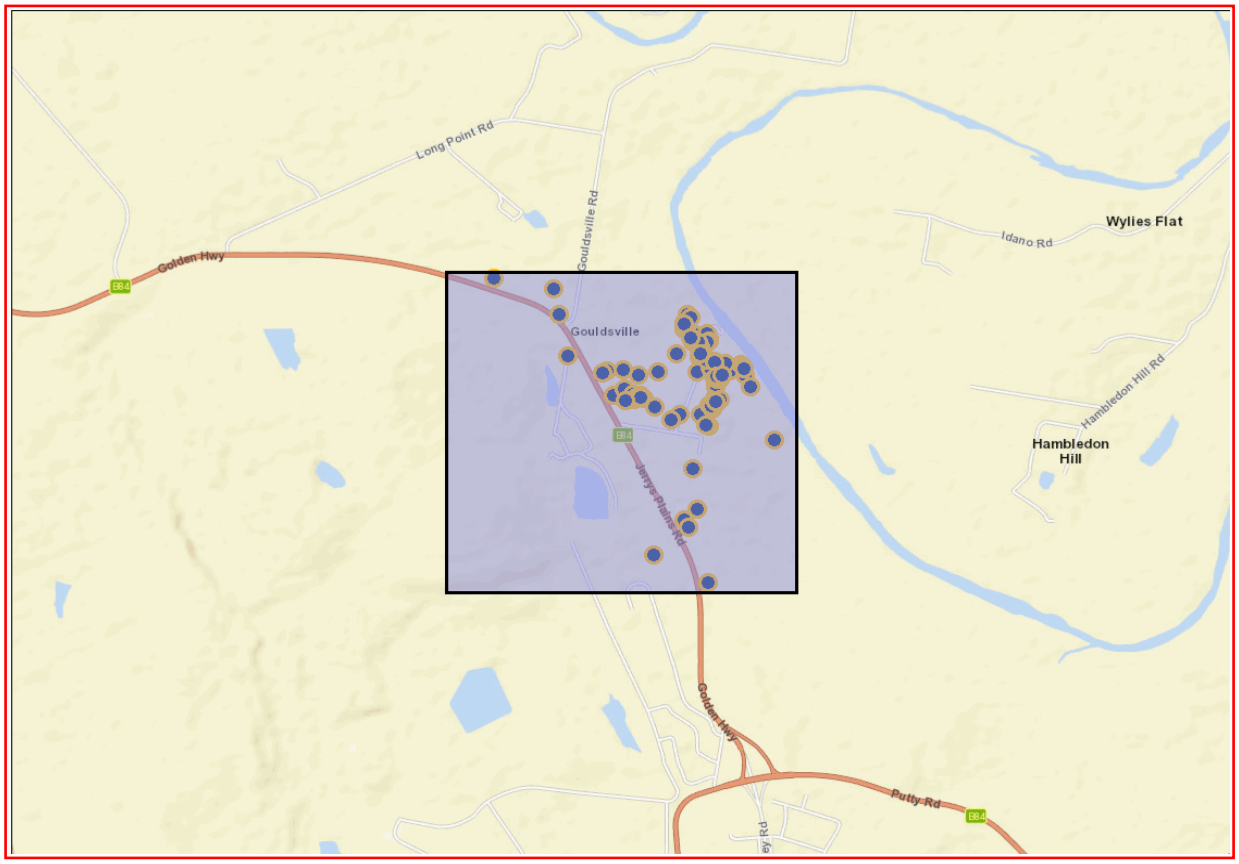
Email: leigh@apexarchaeology.com.au

Date: 24 October 2023

Dear Sir or Madam:

**AHIMS Web Service search for the following area at Datum :GDA, Zone : 56, Eastings : 319671.0 - 322215.0, Northings : 6390927.0 - 6393300.0 with a Buffer of 0 meters, conducted by Leigh Bate on 24 October 2023.**

**The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.**




A search of Heritage NSW AHIMS Web Services (Aboriginal Heritage Information Management System) has shown that:

| | |
|---|---|
| 95 | Aboriginal sites are recorded in or near the above location. |
| 0 | Aboriginal places have been declared in or near the above location. * |

**If your search shows Aboriginal sites or places what should you do?**

- You must do an extensive search if AHIMS has shown that there are Aboriginal sites or places recorded in the search area.
- If you are checking AHIMS as a part of your due diligence, refer to the next steps of the Due Diligence Code of practice.
- You can get further information about Aboriginal places by looking at the gazettal notice that declared it. Aboriginal places gazetted after 2001 are available on the NSW Government Gazette (https://www.legislation.nsw.gov.au/gazette) website. Gazettal notices published prior to 2001 can be obtained from Heritage NSW upon request

**Important information about your AHIMS search**

- The information derived from the AHIMS search is only to be used for the purpose for which it was requested. It is not be made available to the public.
- AHIMS records information about Aboriginal sites that have been provided to Heritage NSW and Aboriginal places that have been declared by the Minister;
- Information recorded on AHIMS may vary in its accuracy and may not be up to date. Location details are recorded as grid references and it is important to note that there may be errors or omissions in these recordings,
- Some parts of New South Wales have not been investigated in detail and there may be fewer records of Aboriginal sites in those areas. These areas may contain Aboriginal sites which are not recorded on AHIMS.
- Aboriginal objects are protected under the National Parks and Wildlife Act 1974 even if they are not recorded as a site on AHIMS.
- This search can form part of your due diligence and remains valid for 12 months.

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Web: www.heritage.nsw.gov.au

# AHIMS Web Services (AWS)
## Search Result

Your Ref/PO Number : 23115o

Client Service ID : 832454

Apex Archaeology

PO BOX 236

Nowra New South Wales 2541

Attention: Leigh Bate

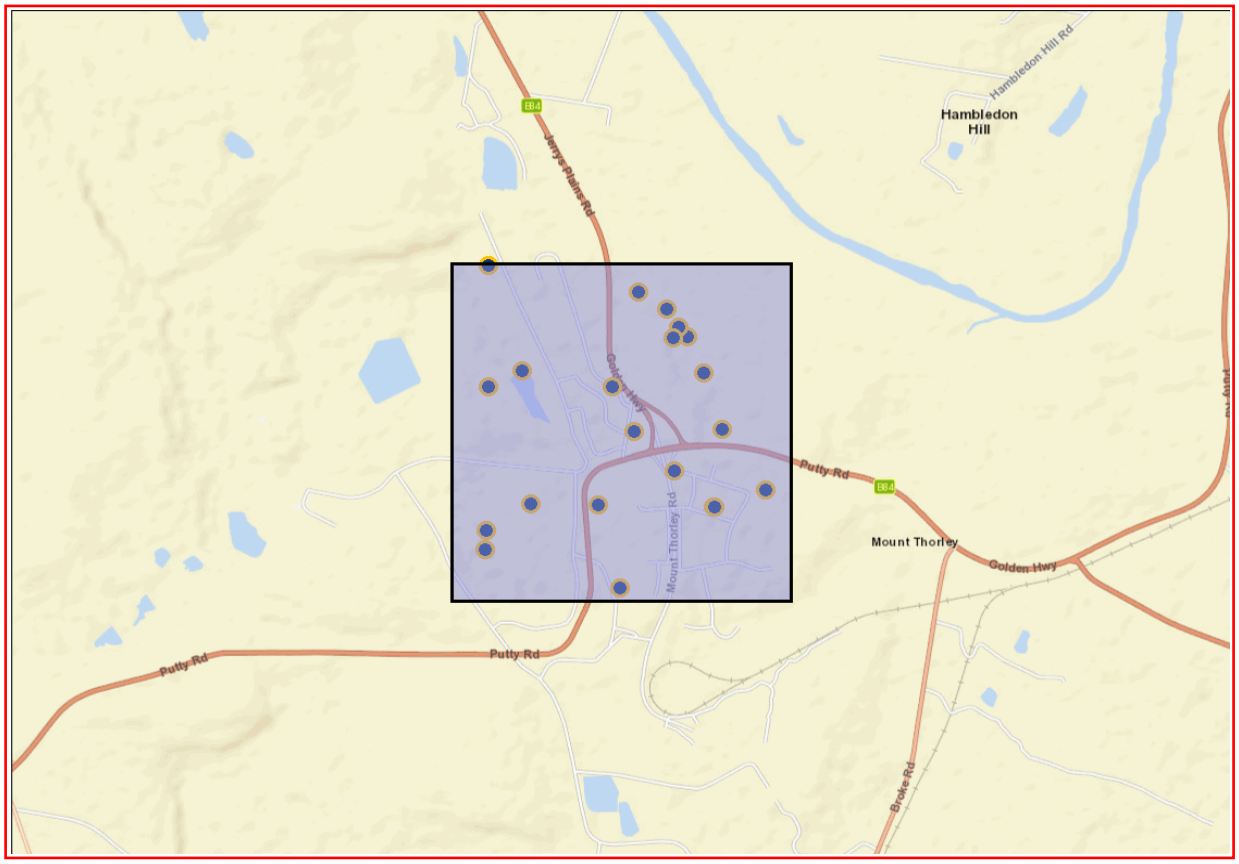
Email: leigh@apexarchaeology.com.au

Date: 24 October 2023

Dear Sir or Madam:

**AHIMS Web Service search for the following area at Datum :GDA, Zone : 56, Eastings : 320428.0 - 322900.0, Northings : 6388400.0 - 6390891.0 with a Buffer of 0 meters, conducted by Leigh Bate on 24 October 2023.**

**The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.**




A search of Heritage NSW AHIMS Web Services (Aboriginal Heritage Information Management System) has shown that:

| | |
|---|---|
| 22 | **Aboriginal sites are recorded in or near the above location.** |
| 0 | **Aboriginal places have been declared in or near the above location. *** |

**If your search shows Aboriginal sites or places what should you do?**

- You must do an extensive search if AHIMS has shown that there are Aboriginal sites or places recorded in the search area.
- If you are checking AHIMS as a part of your due diligence, refer to the next steps of the Due Diligence Code of practice.
- You can get further information about Aboriginal places by looking at the gazettal notice that declared it. Aboriginal places gazetted after 2001 are available on the NSW Government Gazette (https://www.legislation.nsw.gov.au/gazette) website. Gazettal notices published prior to 2001 can be obtained from Heritage NSW upon request

**Important information about your AHIMS search**

- The information derived from the AHIMS search is only to be used for the purpose for which it was requested. It is not be made available to the public.
- AHIMS records information about Aboriginal sites that have been provided to Heritage NSW and Aboriginal places that have been declared by the Minister;
- Information recorded on AHIMS may vary in its accuracy and may not be up to date. Location details are recorded as grid references and it is important to note that there may be errors or omissions in these recordings,
- Some parts of New South Wales have not been investigated in detail and there may be fewer records of Aboriginal sites in those areas. These areas may contain Aboriginal sites which are not recorded on AHIMS.
- Aboriginal objects are protected under the National Parks and Wildlife Act 1974 even if they are not recorded as a site on AHIMS.
- This search can form part of your due diligence and remains valid for 12 months.

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Web: www.heritage.nsw.gov.au

# AHIMS Web Services (AWS)
## Search Result

Your Ref/PO Number : 23115p

Client Service ID : 832455

Apex Archaeology

PO BOX 236

Nowra New South Wales 2541

Attention: Leigh Bate

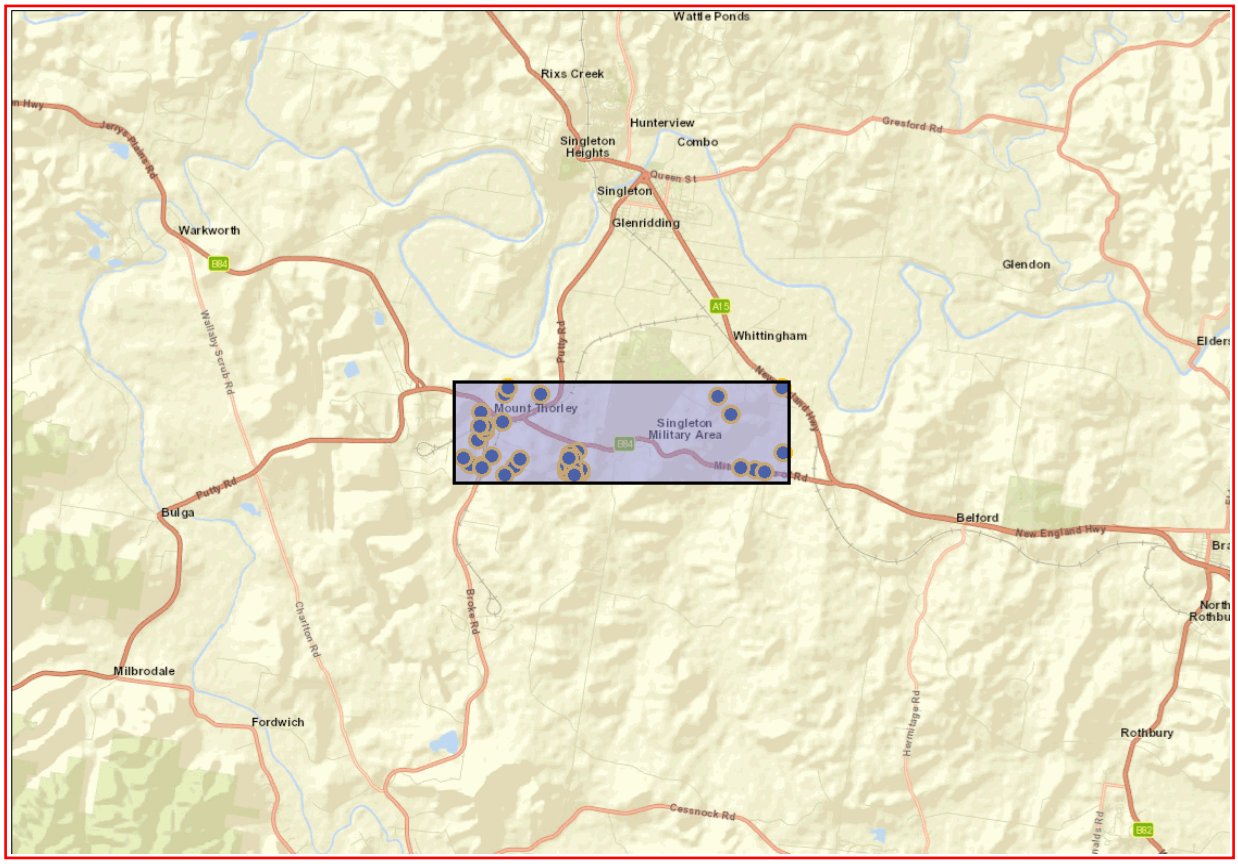
Email: leigh@apexarchaeology.com.au

Date: 24 October 2023

Dear Sir or Madam:

**AHIMS Web Service search for the following area at Datum :GDA, Zone : 56, Eastings : 323006.0 - 332900.0, Northings : 6386900.0 - 6389746.0 with a Buffer of 0 meters, conducted by Leigh Bate on 24 October 2023.**

**The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.**




A search of Heritage NSW AHIMS Web Services (Aboriginal Heritage Information Management System) has shown that:

| | |
|---|---|
| 37 | **Aboriginal sites are recorded in or near the above location.** |
| 0 | **Aboriginal places have been declared in or near the above location. *** |

**If your search shows Aboriginal sites or places what should you do?**

- You must do an extensive search if AHIMS has shown that there are Aboriginal sites or places recorded in the search area.
- If you are checking AHIMS as a part of your due diligence, refer to the next steps of the Due Diligence Code of practice.
- You can get further information about Aboriginal places by looking at the gazettal notice that declared it. Aboriginal places gazetted after 2001 are available on the NSW Government Gazette (https://www.legislation.nsw.gov.au/gazette) website. Gazettal notices published prior to 2001 can be obtained from Heritage NSW upon request

**Important information about your AHIMS search**

- The information derived from the AHIMS search is only to be used for the purpose for which it was requested. It is not be made available to the public.
- AHIMS records information about Aboriginal sites that have been provided to Heritage NSW and Aboriginal places that have been declared by the Minister;
- Information recorded on AHIMS may vary in its accuracy and may not be up to date. Location details are recorded as grid references and it is important to note that there may be errors or omissions in these recordings,
- Some parts of New South Wales have not been investigated in detail and there may be fewer records of Aboriginal sites in those areas. These areas may contain Aboriginal sites which are not recorded on AHIMS.
- Aboriginal objects are protected under the National Parks and Wildlife Act 1974 even if they are not recorded as a site on AHIMS.
- This search can form part of your due diligence and remains valid for 12 months.

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Web: www.heritage.nsw.gov.au

# AHIMS Web Services (AWS)
## Search Result

Your Ref/PO Number : 23115q

Client Service ID : 832456

Apex Archaeology

PO BOX 236

Nowra New South Wales 2541

Attention: Leigh Bate

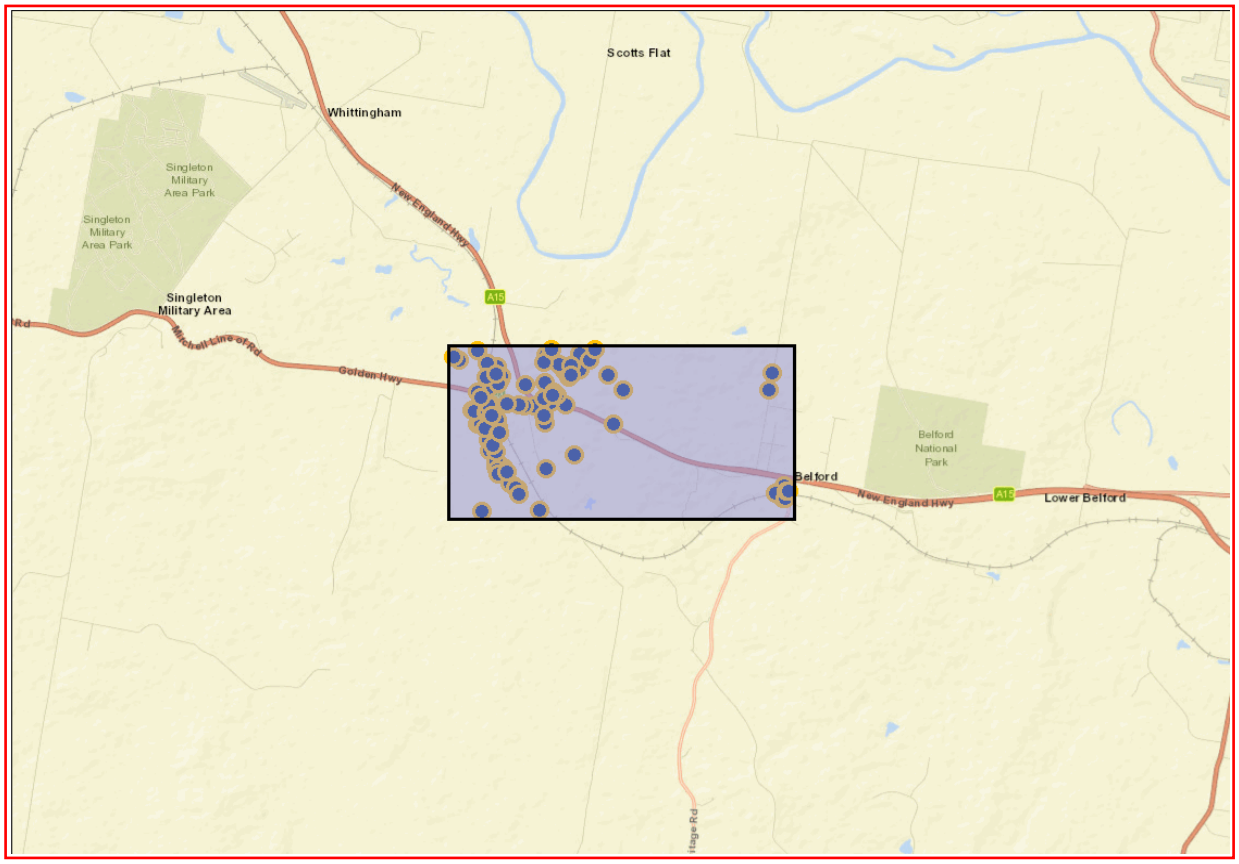
Email: leigh@apexarchaeology.com.au

Date: 24 October 2023

Dear Sir or Madam:

**AHIMS Web Service search for the following area at Datum :GDA, Zone : 56, Eastings : 333106.0 - 338200.0, Northings : 6385200.0 - 6387730.0 with a Buffer of 0 meters, conducted by Leigh Bate on 24 October 2023.**

**The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.**




A search of Heritage NSW AHIMS Web Services (Aboriginal Heritage Information Management System) has shown that:

| | |
|---|---|
| 89 | Aboriginal sites are recorded in or near the above location. |
| 0 | Aboriginal places have been declared in or near the above location. * |

**If your search shows Aboriginal sites or places what should you do?**

- You must do an extensive search if AHIMS has shown that there are Aboriginal sites or places recorded in the search area.
- If you are checking AHIMS as a part of your due diligence, refer to the next steps of the Due Diligence Code of practice.
- You can get further information about Aboriginal places by looking at the gazettal notice that declared it. Aboriginal places gazetted after 2001 are available on the NSW Government Gazette (https://www.legislation.nsw.gov.au/gazette) website. Gazettal notices published prior to 2001 can be obtained from Heritage NSW upon request

**Important information about your AHIMS search**

- The information derived from the AHIMS search is only to be used for the purpose for which it was requested. It is not be made available to the public.
- AHIMS records information about Aboriginal sites that have been provided to Heritage NSW and Aboriginal places that have been declared by the Minister;
- Information recorded on AHIMS may vary in its accuracy and may not be up to date. Location details are recorded as grid references and it is important to note that there may be errors or omissions in these recordings,
- Some parts of New South Wales have not been investigated in detail and there may be fewer records of Aboriginal sites in those areas. These areas may contain Aboriginal sites which are not recorded on AHIMS.
- Aboriginal objects are protected under the National Parks and Wildlife Act 1974 even if they are not recorded as a site on AHIMS.
- This search can form part of your due diligence and remains valid for 12 months.

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Web: www.heritage.nsw.gov.au

# AHIMS Web Services (AWS)
## Search Result

Your Ref/PO Number : 23115r

Client Service ID : 832457

Apex Archaeology

PO BOX 236

Nowra New South Wales 2541

Attention: Leigh Bate

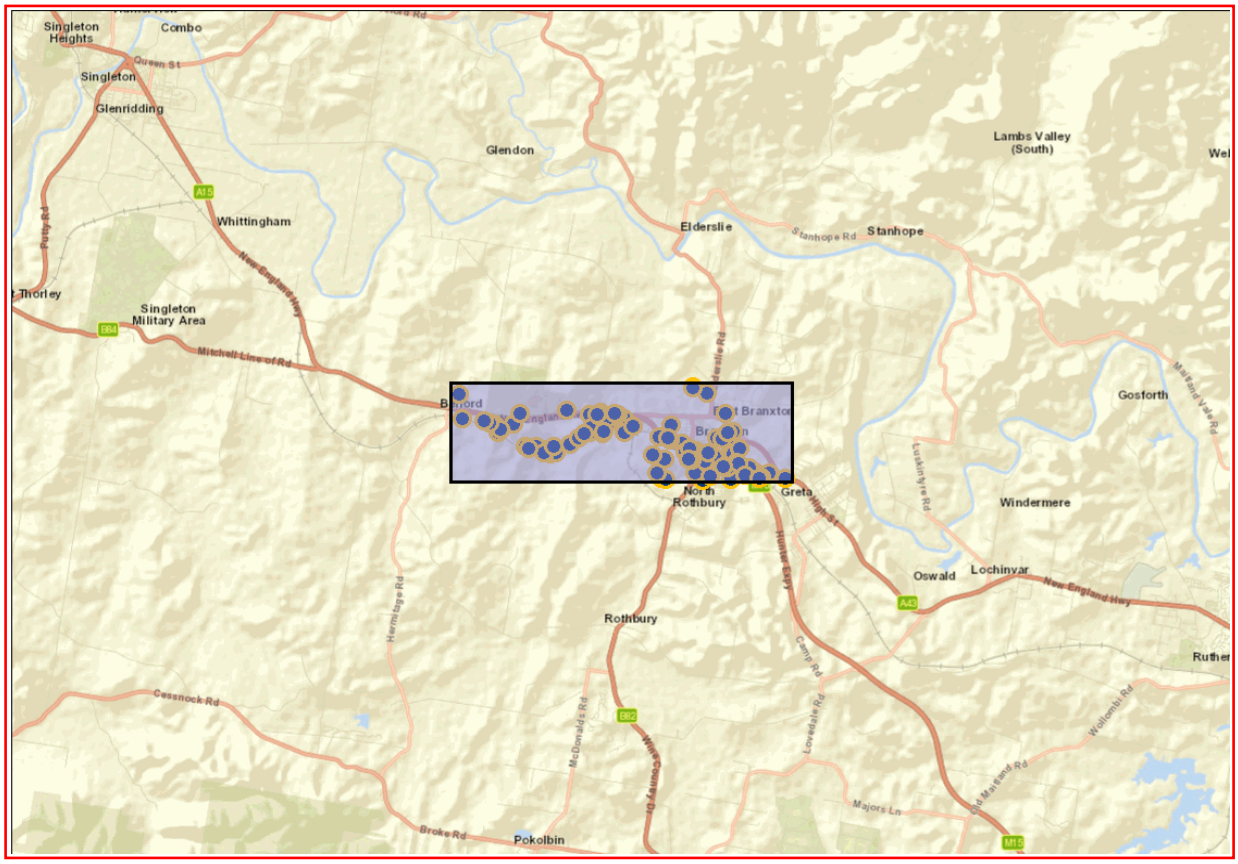
Email: leigh@apexarchaeology.com.au

Date: 24 October 2023

Dear Sir or Madam:

**AHIMS Web Service search for the following area at Datum :GDA, Zone : 56, Eastings : 338265.0 - 348330.0, Northings : 6383727.0 - 6386544.0 with a Buffer of 0 meters, conducted by Leigh Bate on 24 October 2023.**

**The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.**




A search of Heritage NSW AHIMS Web Services (Aboriginal Heritage Information Management System) has shown that:

| | |
|---|---|
| 105 | Aboriginal sites are recorded in or near the above location. |
| 0 | Aboriginal places have been declared in or near the above location. * |

**If your search shows Aboriginal sites or places what should you do?**

- You must do an extensive search if AHIMS has shown that there are Aboriginal sites or places recorded in the search area.
- If you are checking AHIMS as a part of your due diligence, refer to the next steps of the Due Diligence Code of practice.
- You can get further information about Aboriginal places by looking at the gazettal notice that declared it. Aboriginal places gazetted after 2001 are available on the NSW Government Gazette (https://www.legislation.nsw.gov.au/gazette) website. Gazettal notices published prior to 2001 can be obtained from Heritage NSW upon request

**Important information about your AHIMS search**

- The information derived from the AHIMS search is only to be used for the purpose for which it was requested. It is not be made available to the public.
- AHIMS records information about Aboriginal sites that have been provided to Heritage NSW and Aboriginal places that have been declared by the Minister;
- Information recorded on AHIMS may vary in its accuracy and may not be up to date. Location details are recorded as grid references and it is important to note that there may be errors or omissions in these recordings,
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- Aboriginal objects are protected under the National Parks and Wildlife Act 1974 even if they are not recorded as a site on AHIMS.
- This search can form part of your due diligence and remains valid for 12 months.

Level 6, 10 Valentine Ave, Parramatta 2150
Locked Bag 5020 Parramatta NSW 2124
Tel: (02) 9585 6345

ABN 34 945 244 274
Email: ahims@environment.nsw.gov.au
Web: www.heritage.nsw.gov.au

# AHIMS Web Services (AWS)
## Search Result

Your Ref/PO Number : 23115s

Client Service ID : 832461

Apex Archaeology

PO BOX 236

Nowra New South Wales 2541

Attention: Leigh Bate

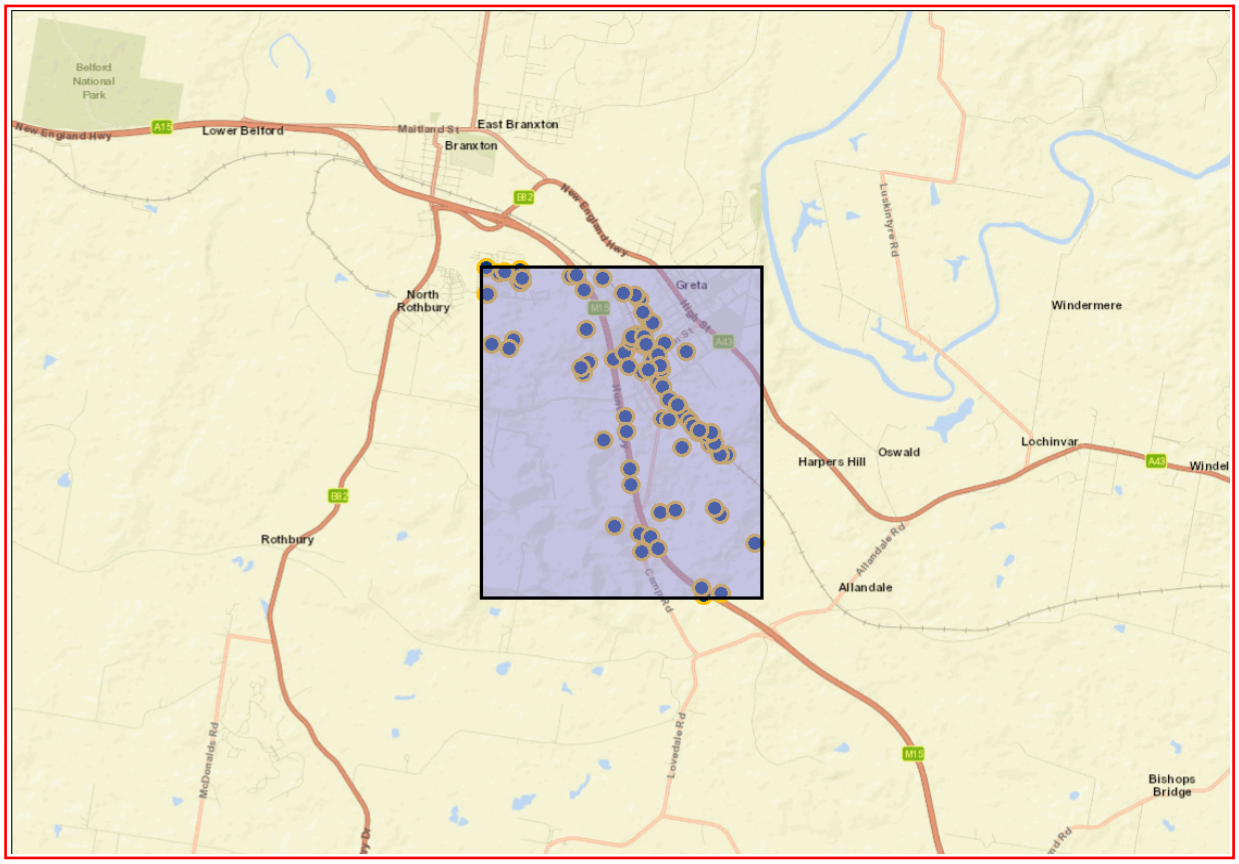
Email: leigh@apexarchaeology.com.au

Date: 24 October 2023

Dear Sir or Madam:

**AHIMS Web Service search for the following area at Datum :GDA, Zone : 56, Eastings : 346165.0 - 350248.0, Northings : 6378676.0 - 6383600.0 with a Buffer of 0 meters, conducted by Leigh Bate on 24 October 2023.**

**The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.**




A search of Heritage NSW AHIMS Web Services (Aboriginal Heritage Information Management System) has shown that:

| | |
|---|---|
| 101 | Aboriginal sites are recorded in or near the above location. |
| 0 | Aboriginal places have been declared in or near the above location. * |

**If your search shows Aboriginal sites or places what should you do?**

- You must do an extensive search if AHIMS has shown that there are Aboriginal sites or places recorded in the search area.
- If you are checking AHIMS as a part of your due diligence, refer to the next steps of the Due Diligence Code of practice.
- You can get further information about Aboriginal places by looking at the gazettal notice that declared it. Aboriginal places gazetted after 2001 are available on the NSW Government Gazette (https://www.legislation.nsw.gov.au/gazette) website. Gazettal notices published prior to 2001 can be obtained from Heritage NSW upon request

**Important information about your AHIMS search**

- The information derived from the AHIMS search is only to be used for the purpose for which it was requested. It is not be made available to the public.
- AHIMS records information about Aboriginal sites that have been provided to Heritage NSW and Aboriginal places that have been declared by the Minister;
- Information recorded on AHIMS may vary in its accuracy and may not be up to date. Location details are recorded as grid references and it is important to note that there may be errors or omissions in these recordings,
- Some parts of New South Wales have not been investigated in detail and there may be fewer records of Aboriginal sites in those areas. These areas may contain Aboriginal sites which are not recorded on AHIMS.
- Aboriginal objects are protected under the National Parks and Wildlife Act 1974 even if they are not recorded as a site on AHIMS.
- This search can form part of your due diligence and remains valid for 12 months.

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# AHIMS Web Services (AWS)
## Search Result

Your Ref/PO Number : 23115t

Client Service ID : 832462

Apex Archaeology

PO BOX 236

Nowra New South Wales 2541

Attention: Leigh Bate

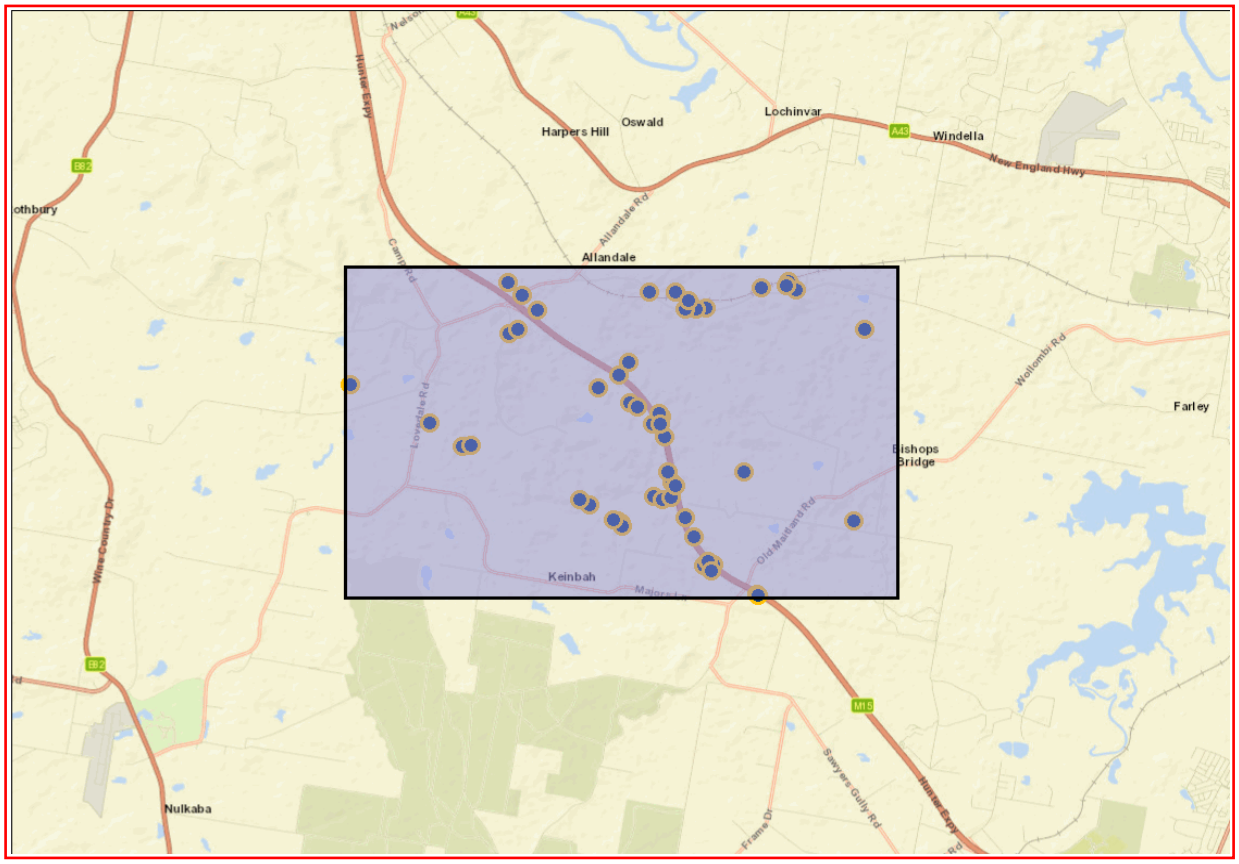
Email: leigh@apexarchaeology.com.au

Date: 24 October 2023

Dear Sir or Madam:

**AHIMS Web Service search for the following area at Datum :GDA, Zone : 56, Eastings : 348032.0 - 356124.0, Northings : 6373798.0 - 6378663.0 with a Buffer of 0 meters, conducted by Leigh Bate on 24 October 2023.**

**The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.**




A search of Heritage NSW AHIMS Web Services (Aboriginal Heritage Information Management System) has shown that:

| | |
|---|---|
| 52 | Aboriginal sites are recorded in or near the above location. |
| 0 | Aboriginal places have been declared in or near the above location. * |

**If your search shows Aboriginal sites or places what should you do?**

- You must do an extensive search if AHIMS has shown that there are Aboriginal sites or places recorded in the search area.
- If you are checking AHIMS as a part of your due diligence, refer to the next steps of the Due Diligence Code of practice.
- You can get further information about Aboriginal places by looking at the gazettal notice that declared it. Aboriginal places gazetted after 2001 are available on the NSW Government Gazette (https://www.legislation.nsw.gov.au/gazette) website. Gazettal notices published prior to 2001 can be obtained from Heritage NSW upon request

**Important information about your AHIMS search**

- The information derived from the AHIMS search is only to be used for the purpose for which it was requested. It is not be made available to the public.
- AHIMS records information about Aboriginal sites that have been provided to Heritage NSW and Aboriginal places that have been declared by the Minister;
- Information recorded on AHIMS may vary in its accuracy and may not be up to date. Location details are recorded as grid references and it is important to note that there may be errors or omissions in these recordings,
- Some parts of New South Wales have not been investigated in detail and there may be fewer records of Aboriginal sites in those areas. These areas may contain Aboriginal sites which are not recorded on AHIMS.
- Aboriginal objects are protected under the National Parks and Wildlife Act 1974 even if they are not recorded as a site on AHIMS.
- This search can form part of your due diligence and remains valid for 12 months.

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# AHIMS Web Services (AWS)
## Search Result

Your Ref/PO Number : 23115u

Client Service ID : 832463

Apex Archaeology

PO BOX 236

Nowra New South Wales 2541

Attention: Leigh Bate

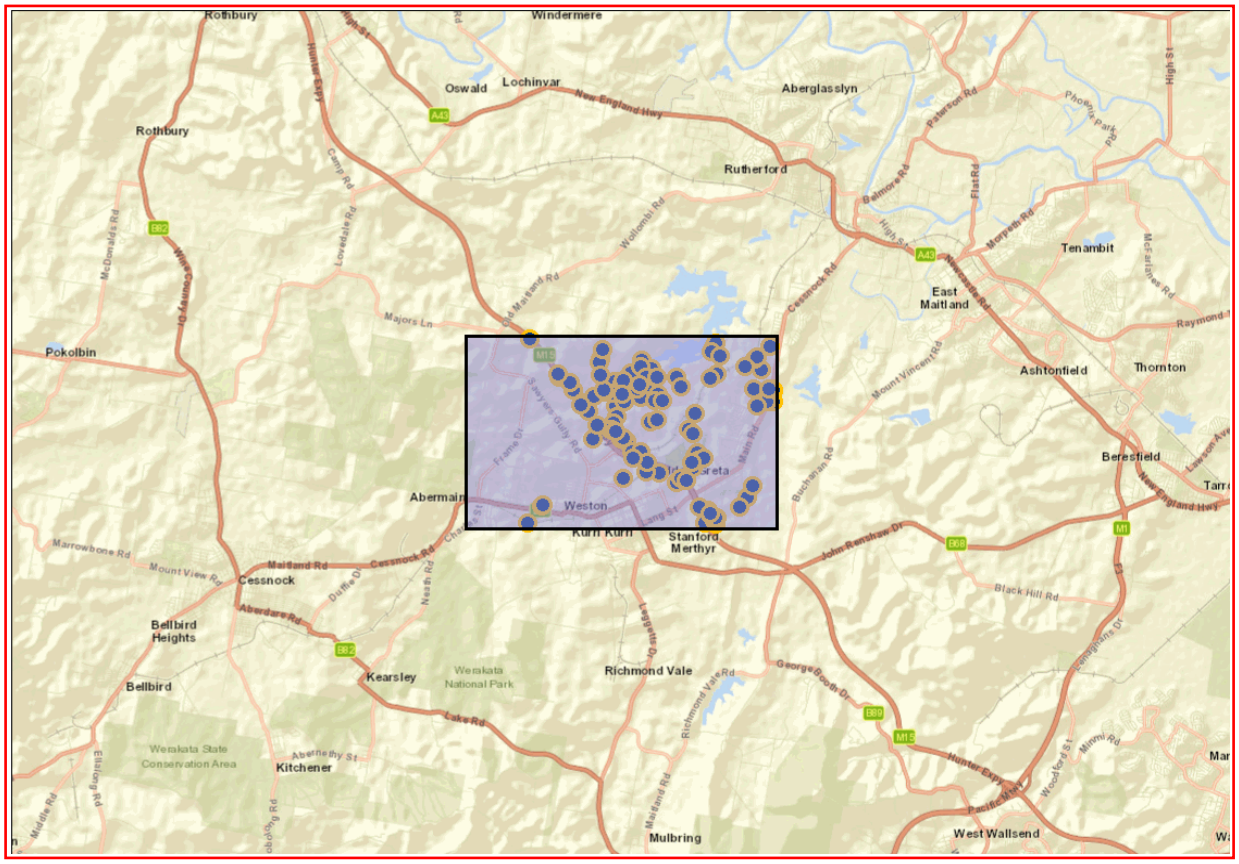
Email: leigh@apexarchaeology.com.au

Date: 24 October 2023

Dear Sir or Madam:

**AHIMS Web Service search for the following area at Datum :GDA, Zone : 56, Eastings : 352828.0 - 361927.0, Northings : 6367857.0 - 6373500.0 with a Buffer of 0 meters, conducted by Leigh Bate on 24 October 2023.**

**The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.**




A search of Heritage NSW AHIMS Web Services (Aboriginal Heritage Information Management System) has shown that:

| | |
|---|---|
| **117** | **Aboriginal sites are recorded in or near the above location.** |
| **0** | **Aboriginal places have been declared in or near the above location. *** |

**If your search shows Aboriginal sites or places what should you do?**

- You must do an extensive search if AHIMS has shown that there are Aboriginal sites or places recorded in the search area.
- If you are checking AHIMS as a part of your due diligence, refer to the next steps of the Due Diligence Code of practice.
- You can get further information about Aboriginal places by looking at the gazettal notice that declared it. Aboriginal places gazetted after 2001 are available on the NSW Government Gazette (https://www.legislation.nsw.gov.au/gazette) website. Gazettal notices published prior to 2001 can be obtained from Heritage NSW upon request

**Important information about your AHIMS search**

- The information derived from the AHIMS search is only to be used for the purpose for which it was requested. It is not be made available to the public.
- AHIMS records information about Aboriginal sites that have been provided to Heritage NSW and Aboriginal places that have been declared by the Minister;
- Information recorded on AHIMS may vary in its accuracy and may not be up to date. Location details are recorded as grid references and it is important to note that there may be errors or omissions in these recordings,
- Some parts of New South Wales have not been investigated in detail and there may be fewer records of Aboriginal sites in those areas. These areas may contain Aboriginal sites which are not recorded on AHIMS.
- Aboriginal objects are protected under the National Parks and Wildlife Act 1974 even if they are not recorded as a site on AHIMS.
- This search can form part of your due diligence and remains valid for 12 months.

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# AHIMS Web Services (AWS)
## Search Result

Your Ref/PO Number : 23115 north

Client Service ID : 832464

Apex Archaeology

PO BOX 236

Nowra New South Wales 2541

Attention: Leigh Bate

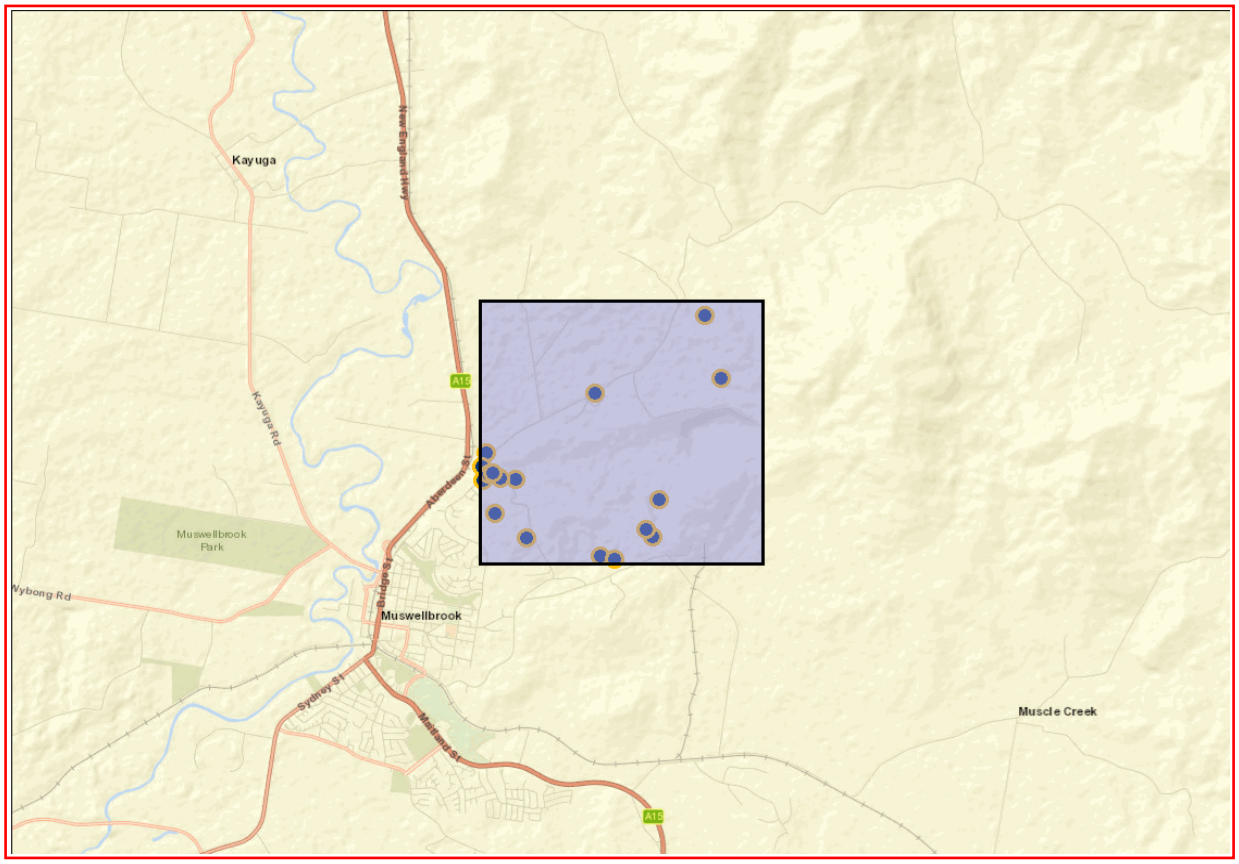
Email: leigh@apexarchaeology.com.au

Date: 24 October 2023

Dear Sir or Madam:

**AHIMS Web Service search for the following area at Datum :GDA, Zone : 56, Eastings : 302640.0 - 306768.0, Northings : 6429438.0 - 6433348.0 with a Buffer of 0 meters, conducted by Leigh Bate on 24 October 2023.**

**The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.**




A search of Heritage NSW AHIMS Web Services (Aboriginal Heritage Information Management System) has shown that:

| | |
|---|---|
| 17 | Aboriginal sites are recorded in or near the above location. |
| 0 | Aboriginal places have been declared in or near the above location. * |

**If your search shows Aboriginal sites or places what should you do?**

- You must do an extensive search if AHIMS has shown that there are Aboriginal sites or places recorded in the search area.
- If you are checking AHIMS as a part of your due diligence, refer to the next steps of the Due Diligence Code of practice.
- You can get further information about Aboriginal places by looking at the gazettal notice that declared it. Aboriginal places gazetted after 2001 are available on the NSW Government Gazette (https://www.legislation.nsw.gov.au/gazette) website. Gazettal notices published prior to 2001 can be obtained from Heritage NSW upon request

**Important information about your AHIMS search**

- The information derived from the AHIMS search is only to be used for the purpose for which it was requested. It is not be made available to the public.
- AHIMS records information about Aboriginal sites that have been provided to Heritage NSW and Aboriginal places that have been declared by the Minister;
- Information recorded on AHIMS may vary in its accuracy and may not be up to date. Location details are recorded as grid references and it is important to note that there may be errors or omissions in these recordings,
- Some parts of New South Wales have not been investigated in detail and there may be fewer records of Aboriginal sites in those areas. These areas may contain Aboriginal sites which are not recorded on AHIMS.
- Aboriginal objects are protected under the National Parks and Wildlife Act 1974 even if they are not recorded as a site on AHIMS.
- This search can form part of your due diligence and remains valid for 12 months.

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115 north

Client Service ID : 834730

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-2-1985 | M-4 | AGD | 56 | 305091 | 6429633 | Open site | Valid | Art (Pigment or Engraved) : - | | |
| | **Contact** | **Recorders** | Ms.Meaghan Russell,Ms.Vanessa Hardy | | | | | **Permits** | 2132 | |
| 37-2-5952 | Muswellbrook Bypass AFT 1 | GDA | 56 | 302698 | 6431043 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Matthew Kelleher,Kelleher Nightingale Consulting Pty Ltd (Generic users) | | | | | **Permits** | | |
| 37-2-5953 | Muswellbrook Bypass AFT 2 | GDA | 56 | 303146 | 6430640 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Matthew Kelleher,Mr. | | | | | **Permits** | | |
| 37-2-0105 | Bells Mountain | AGD | 56 | 306063 | 6432039 | Open site | Valid | Modified Tree (Carved or Scarred) : - | Scarred Tree | 635 |
| | **Contact** | **Recorders** | Ms.Betty Ross | | | | | **Permits** | | |
| 37-2-2050 | NM15 | AGD | 56 | 302537 | 6430640 | Open site | Valid | Artefact : 1 | | |
| | **Contact** T Russell | **Recorders** | Ms.Penny Mccardle | | | | | **Permits** | | |
| 37-2-2040 | NM16 | AGD | 56 | 302553 | 6430437 | Open site | Valid | Artefact : 1 | | |
| | **Contact** T Russell | **Recorders** | Ms.Penny Mccardle | | | | | **Permits** | | |
| 37-2-5954 | Muswellbrook Bypass AFT 3 | GDA | 56 | 303333 | 6429759 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Matthew Kelleher,Kelleher Nightingale Consulting Pty Ltd (Generic users) | | | | | **Permits** | | |
| 37-2-1984 | M-3 | AGD | 56 | 305006 | 6429742 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Ms.Meaghan Russell,Ms.Vanessa Hardy | | | | | **Permits** | 2132 | |
| 37-2-0104 | Muswellbrook;Bimbadeen; | AGD | 56 | 305182 | 6430193 | Open site | Valid | Modified Tree (Carved or Scarred) : - | Scarred Tree | |
| | **Contact** | **Recorders** | Helen Brayshaw | | | | | **Permits** | | |
| 37-2-2038 | NM5 | AGD | 56 | 302812 | 6430467 | Open site | Valid | Artefact : 5 | | |
| | **Contact** T Russell | **Recorders** | Ms.Penny Mccardle | | | | | **Permits** | | |
| 37-2-5052 | TR/1 | GDA | 56 | 305916 | 6433179 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Balazs Hansel | | | | | **Permits** | | |
| 37-2-2592 | SANDY CREEK ROAD ISO1 | AGD | 56 | 304200 | 6431780 | Open site | Valid | Artefact : 1 | | 100738 |
| | **Contact** Searle | **Recorders** | Mr.John Appleton | | | | | **Permits** | | |
| 37-2-2041 | NM3 | AGD | 56 | 302641 | 6430524 | Open site | Valid | Artefact : 1 | | |
| | **Contact** T Russell | **Recorders** | Ms.Penny Mccardle | | | | | **Permits** | | |
| 37-2-2049 | NM14 | AGD | 56 | 302745 | 6429937 | Open site | Valid | Artefact : 2 | | 100052,100053 |
| | **Contact** T Russell | **Recorders** | Ms.Penny Mccardle | | | | | **Permits** | | |
| 37-2-2039 | NM4 | AGD | 56 | 302700 | 6430542 | Open site | Valid | Artefact : 2 | | |
| | **Contact** T Russell | **Recorders** | Ms.Penny Mccardle | | | | | **Permits** | | |
| 37-2-1982 | M-1 | AGD | 56 | 304327 | 6429316 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Ms.Meaghan Russell,Ms.Vanessa Hardy | | | | | **Permits** | 2132 | |

**Report generated by AHIMS Web Service on 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 302640.0 - 306768.0, Northings : 6429438.0 - 6433348.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 17**

This information is not guaranteed to be free from error omission. Heritage NSW and its employees disclaim liability for any act done or omission made on the information and consequences of such acts or omission.

# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115 north

Client Service ID : 834730

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-2-1983 | M-2 | AGD | 56 | 304546 | 6429286 | Open site | Valid | Artefact : - | | |

**Contact** **Recorders** Ms.Meaghan Russell,Ms.Vanessa Hardy **Permits** 2132

**** 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 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 302640.0 - 306768.0, Northings : 6429438.0 - 6433348.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 17**

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115u

Client Service ID : 834733

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-6-1357 | Swamp Creek RTA 5 IF | AGD | 56 | 358943 | 6368993 | Open site | Valid | Artefact : 1 | | 102388 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2102 | |
| 38-4-1713 | Hydro-AS04-14 | GDA | 56 | 360085 | 6373261 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Andrew McLaren | | | | | **Permits** | | |
| 38-4-1310 | RPS STANFORD METHYR IF4 | GDA | 56 | 360233 | 6368157 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | RPS AAP Consulting Pty Ltd - Hamilton,Ms.Laraine Nelson | | | | | **Permits** | | |
| 38-4-2122 | GH21-PAD-4 | GDA | 56 | 361870 | 6371974 | Open site | Valid | Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Niche Environment and Heritage,Niche Environment and Heritage,Niche Environm | | | | | **Permits** | | |
| 37-6-3794 | Kurri Kurri SC01 | GDA | 56 | 357447 | 6369296 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | EMM Consulting - St Leonards - Individual users,Mr.Andrew Crisp | | | | | **Permits** | | |
| 37-6-1233 | Hebden Estate Isolated find | AGD | 56 | 354550 | 6367700 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Dominic Steele Archaeological Consulting | | | | | **Permits** | 2047 | |
| 38-4-2255 | GH-IF-01 | GDA | 56 | 361482 | 6372617 | Closed site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Biosis Pty Ltd - Wollongong,Mrs.Samantha Keats | | | | | **Permits** | 5163 | |
| 37-6-1962 | KK14 | GDA | 56 | 356727 | 6372857 | Open site | Valid | Artefact : 1 | | 102231 |
| | **Contact** | **Recorders** | Australian Museum Consulting (AM Consulting),Mrs.Tessa Boer-Mah | | | | | **Permits** | 3203 | |
| 37-6-1964 | KK16 | GDA | 56 | 356790 | 6373144 | Open site | Valid | Artefact : - | | 102231 |
| | **Contact** | **Recorders** | Australian Museum Consulting (AM Consulting),Mrs.Tessa Boer-Mah | | | | | **Permits** | | |
| 37-6-3055 | Hydro-AS12-14 | GDA | 56 | 357175 | 6372186 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Andrew McLaren | | | | | **Permits** | | |
| 37-6-3969 | Hydro-IA35-15 | GDA | 56 | 357209 | 6371474 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | AECOM Australia Pty Ltd - Sydney,Doctor.Andrew Peter Mclaren | | | | | **Permits** | | |
| 37-6-3068 | Hydro-AS26-14 | GDA | 56 | 357247 | 6371141 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | McLachlan Thorpe Partners | | | | | **Permits** | | |
| 37-6-2007 | KR04 | GDA | 56 | 357367 | 6370539 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Australian Museum Consulting (AM Consulting),Mrs.Tessa Boer-Mah | | | | | **Permits** | 3201 | |
| 37-6-2006 | KR03 | GDA | 56 | 357491 | 6370454 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Australian Museum Consulting (AM Consulting),Jacobs Group (Australia) Pty Ltd - I | | | | | **Permits** | 3201 | |
| 37-6-3058 | Hydro-AS15-14 | GDA | 56 | 357565 | 6372127 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Andrew McLaren | | | | | **Permits** | | |
| 37-6-3054 | Hydro-AS11-14 | GDA | 56 | 357628 | 6372468 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Andrew McLaren | | | | | **Permits** | | |
| 38-4-1308 | RPS STANFORD METHYR IF2 | GDA | 56 | 359982 | 6368022 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | RPS AAP Consulting Pty Ltd - Hamilton,Ms.Laraine Nelson | | | | | **Permits** | | |
| 37-6-0269 | Kurri Kurri No.3; | AGD | 56 | 359480 | 6369790 | Open site | Valid | Artefact : - | Open Camp Site | 783,102388 |

**Report generated by AHIMS Web Service on 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 352828.0 - 361927.0, Northings : 6367857.0 - 6373500.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 117**

This information is not guaranteed to be free from error omission. Heritage NSW and its employees disclaim liability for any act done or omission made on the information and consequences of such acts or omission.

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| | **Contact** | **Recorders** | A Djekic | | | | | **Permits** | | |
| 38-4-1368 | Wallis Creek RTA 10 IF | GDA | 56 | 360221 | 6367962 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Miss.Steph Howden | | | | | **Permits** | | |
| 38-4-1702 | Heddon Greta Rezonong PAD 1 | GDA | 56 | 361133 | 6368759 | Open site | Destroyed | Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Penny Mccardle,Mr.Jeremy Hill | | | | | **Permits** | 3757 | |
| 38-4-2256 | Hydro-IA03-14 | GDA | 56 | 361291 | 6372936 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Biosis Pty Ltd - Wollongong,Mrs.Samantha Keats | | | | | **Permits** | | |
| 37-6-3056 | Hydro-AS13-14 | GDA | 56 | 357378 | 6372130 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Andrew McLaren | | | | | **Permits** | | |
| 37-6-1364 | Sawyers Gully RTA 11 (formerly PAD12 Sawyers Gully) | AGD | 56 | 354542 | 6373239 | Open site | Valid | Potential Archaeological Deposit (PAD) : 1, Artefact : - | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2096,2562 | |
| 37-6-1652 | Northern Swamp Tributaries 2 | AGD | 56 | 356637 | 6372207 | Open site | Valid | Artefact : 2 | | 100062,102231 |
| | **Contact** Searle | **Recorders** | Ms.Tudur Llwyd Davies | | | | | **Permits** | 2520,2660,3151,3203 | |
| 37-6-1361 | Swamp Creek RTA 9 | AGD | 56 | 357005 | 6370549 | Open site | Valid | Artefact : 7 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2102 | |
| 37-6-3069 | Hydro-AS27-14 | GDA | 56 | 357148 | 6370939 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Andrew McLaren | | | | | **Permits** | | |
| 37-6-2005 | KR02 | GDA | 56 | 357528 | 6370404 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Australian Museum Consulting (AM Consulting),Mrs.Tessa Boer-Mah | | | | | **Permits** | 3201 | |
| 37-6-3059 | Hydro-AS16-14 | GDA | 56 | 357531 | 6372061 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Andrew McLaren | | | | | **Permits** | | |
| 37-6-3064 | Hydro-AS21-14 | GDA | 56 | 357637 | 6371864 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Andrew McLaren | | | | | **Permits** | | |
| 37-6-1645 | Swamp Creek Catchment 4 | AGD | 56 | 357603 | 6369908 | Open site | Valid | Artefact : 1 | | 100062 |
| | **Contact** Searle | **Recorders** | Ms.Tudur Llwyd Davies | | | | | **Permits** | 2520,2660 | |
| 37-6-4252 | KKLP PAD12 | GDA | 56 | 357971 | 6372836 | Open site | Valid | Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Miss.Alison Fenwick | | | | | **Permits** | | |
| 37-6-3051 | Hydro-AS08-14 | GDA | 56 | 358265 | 6372585 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Andrew McLaren | | | | | **Permits** | | |
| 38-4-1306 | STANFORD MERTHYR AS4 | GDA | 56 | 359890 | 6367977 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | RPS AAP Consulting Pty Ltd - Hamilton,Ms.Laraine Nelson | | | | | **Permits** | | |

**Report generated by AHIMS Web Service on 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 352828.0 - 361927.0, Northings : 6367857.0 - 6373500.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 117**

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115u

Client Service ID : 834733

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-6-0268 | Kurri Kurri No 2.; | AGD | 56 | 359450 | 6369680 | Open site | Valid | Artefact : - | Open Camp Site | 783 |
| **Contact** | | **Recorders** | A Djekic | | | | | **Permits** | | |
| 37-6-3926 | RPS HG01 | GDA | 56 | 359573 | 6369800 | Open site | Destroyed | Artefact : 1 | | |
| **Contact** | | **Recorders** | RPS AAP Consulting Pty Ltd - Hamilton,RPS AAP Consulting Pty Ltd - York Street Sy | | | | | **Permits** | 4597 | |
| 37-6-0271 | Kurri Kurri No.5; | AGD | 56 | 359520 | 6369890 | Open site | Valid | Artefact : - | Open Camp Site | 102135,102388 |
| **Contact** | | **Recorders** | A Djekic | | | | | **Permits** | | |
| 38-4-1615 | Wallis Creek RTA 26 IF | GDA | 56 | 360164 | 6368047 | Open site | Valid | Artefact : 1 | | |
| **Contact** | | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Mr.Kirwan Williams | | | | | **Permits** | | |
| 38-4-2253 | KKLP PAD5 | GDA | 56 | 360185 | 6372476 | Open site | Valid | Potential Archaeological Deposit (PAD) : - | | |
| **Contact** | | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Miss.Alison Fenwick | | | | | **Permits** | | |
| 38-4-2015 | TH-IF-001 | GDA | 56 | 361866 | 6371651 | Open site | Valid | Artefact : 1 | | |
| **Contact** | | **Recorders** | Kayandel Archaeological Services,Miss.Meg Walker | | | | | **Permits** | | |
| 37-6-3065 | Hydro-AS22-14 | GDA | 56 | 357458 | 6371685 | Open site | Valid | Artefact : - | | |
| **Contact** | | **Recorders** | Andrew McLaren | | | | | **Permits** | | |
| 37-6-1341 | Black Waterholes Creek RTA 1 IF | AGD | 56 | 355826 | 6371730 | Open site | Valid | Artefact : 1 | | |
| **Contact** | | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2102 | |
| 37-6-1961 | KK13 | GDA | 56 | 356713 | 6372765 | Open site | Valid | Artefact : 1 | | 102231 |
| **Contact** | | **Recorders** | Australian Museum Consulting (AM Consulting),Mrs.Tessa Boer-Mah | | | | | **Permits** | 3203 | |
| 37-6-2004 | KR01 | GDA | 56 | 357959 | 6370106 | Open site | Valid | Artefact : - | | |
| **Contact** | | **Recorders** | Australian Museum Consulting (AM Consulting),Mrs.Tessa Boer-Mah | | | | | **Permits** | 3201 | |
| 37-6-1359 | Swamp Creek RTA 7 IF | AGD | 56 | 358425 | 6369259 | Open site | Valid | Artefact : 1 | | 102388 |
| **Contact** | | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2102 | |
| 38-4-1367 | Wallis Creek RTA 9 | GDA | 56 | 359970 | 6368362 | Open site | Valid | Artefact : - | | |
| **Contact** | | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Miss.Steph Howden | | | | | **Permits** | | |
| 38-4-2254 | KKLP PAD6 | GDA | 56 | 359975 | 6372345 | Open site | Valid | Potential Archaeological Deposit (PAD) : - | | |
| **Contact** | | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Miss.Alison Fenwick | | | | | **Permits** | | |
| 38-4-1467 | Wallis Creek RTA 13 IF | GDA | 56 | 360056 | 6368233 | Open site | Valid | Artefact : 1 | | |
| **Contact** | | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Mr.Kirwan Williams | | | | | **Permits** | | |
| 38-4-1703 | Heddon Greta Rezonong PAD 2 | GDA | 56 | 360901 | 6368469 | Open site | Destroyed | Potential Archaeological Deposit (PAD) : - | | |
| **Contact** | | **Recorders** | Ms.Penny Mccardle,Ms.Jo Nelson | | | | | **Permits** | 3757 | |
| 38-4-1309 | RPS STANFORD METHYR IF3 | GDA | 56 | 360196 | 6368134 | Open site | Valid | Artefact : - | | |

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115u

Client Service ID : 834733

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| | Contact | Recorders | RPS AAP Consulting Pty Ltd - Hamilton,Ms.Laraine Nelson | | | | | Permits | | |
| 38-4-1712 | Hydro-AS03-14 | GDA | 56 | 360138 | 6373383 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | Andrew McLaren | | | | | Permits | | |
| 38-4-2143 | Heddon Greta AA AFT PAD | GDA | 56 | 361299 | 6369121 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | Contact | Recorders | RPS AAP Consulting Pty Ltd - Pitt Street Sydney,Doctor.Bengi Selvi-Lamb | | | | | Permits | | |
| 38-4-2252 | KKLP PAD4 | GDA | 56 | 361266 | 6372038 | Open site | Valid | Potential Archaeological Deposit (PAD) : - | | |
| | Contact | Recorders | Umwelt (Australia) Pty Limited - Individual users,Miss.Alison Fenwick | | | | | Permits | | |
| 38-4-1839 | PAD GH1 | GDA | 56 | 361758 | 6373304 | Open site | Not a Site | Potential Archaeological Deposit (PAD) : - | | |
| | Contact | Recorders | RPS AAP Consulting Pty Ltd - Hamilton,RPS AAP Consulting Pty Ltd - Hamilton,Mr.I | | | | | Permits | 4066 | |
| 37-6-3057 | Hydro-AS14-14 | GDA | 56 | 357432 | 6372247 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | Andrew McLaren | | | | | Permits | | |
| 37-6-1344 | Black Waterholes Creek RTA 4 IF (BWC RTA 4 IF) | AGD | 56 | 355416 | 6372102 | Open site | Valid | Artefact : 1 | | |
| | Contact | Recorders | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | Permits | 2102 | |
| 37-6-1959 | KK11 | GDA | 56 | 357079 | 6371849 | Open site | Valid | Artefact : 1 | | 102231 |
| | Contact | Recorders | Australian Museum Consulting (AM Consulting),Mrs.Tessa Boer-Mah | | | | | Permits | 3203 | |
| 37-6-4251 | KKLP PAD11 | GDA | 56 | 357935 | 6372665 | Open site | Valid | Potential Archaeological Deposit (PAD) : - | | |
| | Contact | Recorders | Umwelt (Australia) Pty Limited - Individual users,Miss.Alison Fenwick | | | | | Permits | | |
| 37-6-3061 | Hydro-AS18-14 | GDA | 56 | 358062 | 6372025 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | Andrew McLaren | | | | | Permits | | |
| 37-6-3053 | Hydro-AS10-14 | GDA | 56 | 358096 | 6372326 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | Andrew McLaren | | | | | Permits | | |
| 37-6-0865 | KK-IF-2 | GDA | 56 | 358141 | 6369492 | Open site | Valid | Artefact : - | Isolated Find | 98174,102135 |
| | Contact | Recorders | Mrs.Robynne Mills,Miss.Nicola Roche | | | | | Permits | | |
| 37-6-0866 | KK-IF-1 | GDA | 56 | 358157 | 6369780 | Open site | Valid | Artefact : - | Isolated Find | 98174,102231 |
| | Contact | Recorders | Mrs.Robynne Mills,Miss.Nicola Roche | | | | | Permits | | |
| 37-6-3063 | Hydro-AS20-14 | GDA | 56 | 358459 | 6371828 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | Andrew McLaren | | | | | Permits | | |
| 38-4-1715 | Hydro-AS06-14 | GDA | 56 | 359994 | 6373142 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | Andrew McLaren | | | | | Permits | | |
| 37-6-3050 | Hydro-AS07-14 | GDA | 56 | 359003 | 6372353 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | Andrew McLaren | | | | | Permits | | |

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115u

Client Service ID : 834733

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-6-1355 | Swamp Creek RTA 3 | AGD | 56 | 359052 | 6369135 | Open site | Valid | Artefact : 10 | | 102388 |
| Contact | Recorders | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | | Permits | 2102 | |
| 38-4-0814 | Swamp Creek RTA 2 | AGD | 56 | 359614 | 6368267 | Open site | Destroyed | Artefact : 6 | | |
| Contact | Recorders | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | | Permits | 2102 | |
| 37-6-3066 | Hydro-AS24-14 | GDA | 56 | 355859 | 6372140 | Open site | Valid | Artefact : - | | |
| Contact | Recorders | Andrew McLaren | | | | | | Permits | | |
| 37-6-2093 | Chinamans Hollow PAD | GDA | 56 | 355069 | 6368415 | Open site | Valid | Potential Archaeological Deposit (PAD) : 1 | | |
| Contact | Recorders | Doctor.Tim Owen | | | | | | Permits | | |
| 37-6-1363 | PAD11 Black Waterholes Creek | AGD | 56 | 356091 | 6371356 | Open site | Valid | Potential Archaeological Deposit (PAD) : 1 | | 102231 |
| Contact | Recorders | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | | Permits | 2096 | |
| 37-6-1343 | Black Waterholes Creek RTA 3 IF | AGD | 56 | 356293 | 6371108 | Open site | Valid | Artefact : 1 | | 102231 |
| Contact | Recorders | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | | Permits | 2102 | |
| 37-6-1963 | KK15 | GDA | 56 | 356790 | 6373144 | Open site | Valid | Artefact : 1 | | 102231 |
| Contact | Recorders | Australian Museum Consulting (AM Consulting),Mrs.Tessa Boer-Mah | | | | | | Permits | | |
| 37-6-1960 | KK12 | GDA | 56 | 356887 | 6371887 | Open site | Valid | Artefact : 1 | | 102231 |
| Contact | Recorders | Australian Museum Consulting (AM Consulting),Mrs.Tessa Boer-Mah | | | | | | Permits | 3203 | |
| 37-6-4263 | HPS ART 2 | GDA | 56 | 357160 | 6370710 | Open site | Valid | Artefact : - | | |
| Contact | Recorders | Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.pauline ramsey | | | | | | Permits | | |
| 37-6-1362 | Swamp Creek RTA 11 IF (formerly PAD9 Swamp Creek) | AGD | 56 | 357630 | 6369700 | Open site | Valid | Potential Archaeological Deposit (PAD) : 1, Artefact : - | | |
| Contact | Recorders | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | | Permits | 2096,2562 | |
| 45-3-3387 | KK04 (Wyong) | GDA | 56 | 357942 | 6371717 | Open site | Valid | Artefact : 103, Potential Archaeological Deposit (PAD) : - | | |
| Contact | Recorders | Australian Museum Consulting (AM Consulting),Mrs.Tessa Boer-Mah | | | | | | Permits | 3151,3203 | |
| 38-4-1714 | Hydro-AS05-14 | GDA | 56 | 360256 | 6373012 | Open site | Valid | Artefact : - | | |
| Contact | Recorders | Andrew McLaren | | | | | | Permits | | |
| 37-6-1953 | KK03 | GDA | 56 | 359355 | 6370790 | Open site | Valid | Artefact : 10 | | |
| Contact | Recorders | Australian Museum Consulting (AM Consulting),Mrs.Tessa Boer-Mah | | | | | | Permits | 3203 | |
| 37-6-1956 | KK08 | GDA | 56 | 359497 | 6370657 | Open site | Destroyed | Artefact : 1 | | 103000,103001 |
| Contact | Recorders | Australian Museum Consulting (AM Consulting),Mrs.Tessa Boer-Mah | | | | | | Permits | 3203,3640 | |

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115u

Client Service ID : 834733

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-6-0267 | Kurri Kurri No.1; | AGD | 56 | 359420 | 6369460 | Open site | Valid | Artefact : - | Open Camp Site | 783,102388 |
| | **Contact** | **Recorders** | A Djekic | | | | | **Permits** | | |
| 38-4-1149 | KKO1 (Beresfield) | GDA | 56 | 359679 | 6369869 | Open site | Valid | Artefact : 3 | | |
| | **Contact** | **Recorders** | Australian Museum Consulting (AM Consulting),Mrs.Tessa Boer-Mah | | | | | **Permits** | 3151 | |
| 37-6-1360 | Swamp Creek RTA 8 IF | AGD | 56 | 357269 | 6370282 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2102 | |
| 38-4-2257 | GH-IF-03 | GDA | 56 | 361373 | 6372983 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Biosis Pty Ltd - Wollongong,Mrs.Samantha Keats | | | | | **Permits** | 5163 | |
| 37-6-2090 | Chinamans Hollow IF1 | GDA | 56 | 355094 | 6368443 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | Doctor.Tim Owen | | | | | **Permits** | | |
| 37-6-1644 | Swamp Creek Catchment 5 | AGD | 56 | 356949 | 6370574 | Open site | Valid | Artefact : 2 | | 100062 |
| | **Contact** Searle | **Recorders** | Ms.Tudur Llwyd Davies | | | | | **Permits** | 2520,2660 | |
| 37-6-4253 | KKLP IA7 | GDA | 56 | 357092 | 6370761 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Miss.Alison Fenwick | | | | | **Permits** | | |
| 37-6-2008 | KR05 | GDA | 56 | 357171 | 6370683 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Australian Museum Consulting (AM Consulting),Jacobs Group (Australia) Pty Ltd - | | | | | **Permits** | 3201 | |
| 37-6-3062 | Hydro-AS19-14 | GDA | 56 | 357827 | 6371996 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Andrew McLaren | | | | | **Permits** | | |
| 38-4-1997 | TH-PAD-002 | GDA | 56 | 361760 | 6372040 | Open site | Valid | Potential Archaeological Deposit (PAD) : 1 | | |
| | **Contact** | **Recorders** | Kayandel Archaeological Services,Miss.Meg Walker | | | | | **Permits** | 4580 | |
| 38-4-2119 | GH21-IF-4 | GDA | 56 | 361821 | 6372048 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Niche Environment and Heritage,Mr.Riley Finnerty | | | | | **Permits** | | |
| 38-4-2250 | KKLP PAD3 | GDA | 56 | 361858 | 6371998 | Open site | Valid | Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Miss.Alison Fenwick | | | | | **Permits** | | |
| 37-6-4262 | HPS ART 1 | GDA | 56 | 357433 | 6370511 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Jacobs Group (Australia) Pty Ltd - North Sydney,Miss.pauline ramsey | | | | | **Permits** | | |
| 37-6-3872 | Hydro PAD 1 | GDA | 56 | 357445 | 6371592 | Open site | Not a Site | Potential Archaeological Deposit (PAD) : - | | 104816 |
| | **Contact** | **Recorders** | AECOM Australia Pty Ltd - Sydney,Doctor.Andrew Peter Mclaren | | | | | **Permits** | | |
| 37-6-1342 | Black Waterholes Creek RTA 2 IF | AGD | 56 | 355388 | 6372208 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2102 | |
| 37-6-3067 | Hydro-AS25-14 | GDA | 56 | 356555 | 6371753 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Andrew McLaren | | | | | **Permits** | | |

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115u

Client Service ID : 834733

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-6-1650 | Northern Swamp Tributaries 4 | AGD | 56 | 356724 | 6371757 | Open site | Valid | Artefact : 29 | | 100062,102231 |
| | **Contact** Searle | **Recorders** | Ms.Tudur Llwyd Davies | | | | | **Permits** | 2520,2660,3151,3203 | |
| 37-6-3070 | Hydro-AS28-14 | GDA | 56 | 357219 | 6370703 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Andrew McLaren | | | | | **Permits** | | |
| 37-6-3052 | Hydro-AS09-14 | GDA | 56 | 358412 | 6372339 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Andrew McLaren | | | | | **Permits** | | |
| 38-4-1150 | KKO2 (Beresfield) | GDA | 56 | 359819 | 6369944 | Open site | Valid | Artefact : 3 | | |
| | **Contact** | **Recorders** | Australian Museum Consulting (AM Consulting),Mrs.Tessa Boer-Mah | | | | | **Permits** | 3151 | |
| 37-6-4250 | KKLP PAD7 | GDA | 56 | 359112 | 6372071 | Open site | Valid | Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Miss.Alison Fenwick | | | | | **Permits** | | |
| 37-6-1358 | Swamp Creek RTA 6 IF | AGD | 56 | 359229 | 6369057 | Open site | Valid | Artefact : 1 | | 102388 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2102 | |
| 37-6-0270 | No. 4 Kurri | GDA | 56 | 359490 | 6369810 | Closed site | Destroyed | Artefact : - | Open Camp Site | 783,102135,102388 |
| | **Contact** | **Recorders** | A Djekic,RPS AAP Consulting Pty Ltd - York Street Sydney ,Mrs.Amanda Crick | | | | | **Permits** | 4597 | |
| 37-6-3073 | Hydro-AS31-14 | GDA | 56 | 359541 | 6371256 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Andrew McLaren | | | | | **Permits** | | |
| 38-4-2258 | GH-IF-02 | GDA | 56 | 361013 | 6372698 | Closed site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Biosis Pty Ltd - Wollongong,Mrs.Samantha Keats | | | | | **Permits** | 5163 | |
| 38-4-1998 | TH-AS-001 | GDA | 56 | 361660 | 6371648 | Open site | Valid | Artefact : 1, Potential Archaeological Deposit (PAD) : 1 | | |
| | **Contact** | **Recorders** | Kayandel Archaeological Services,Miss.Meg Walker | | | | | **Permits** | 4580 | |
| 38-4-2251 | TH-PAD-01 Extension | GDA | 56 | 361730 | 6372028 | Open site | Valid | Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Miss.Alison Fenwick | | | | | **Permits** | | |
| 37-6-1958 | KK10 | GDA | 56 | 357407 | 6371800 | Open site | Valid | Artefact : 3 | | 102231 |
| | **Contact** | **Recorders** | Australian Museum Consulting (AM Consulting),Mrs.Tessa Boer-Mah | | | | | **Permits** | 3203 | |
| 38-4-0898 | Cliftleigh 1 | AGD | 56 | 361284 | 6371336 | Open site | Valid | Artefact : 1 | | 102231,102388 |
| | **Contact** T Russell | **Recorders** | Ms.Penny Mccardle | | | | | **Permits** | | |
| 37-6-2009 | KR06 | GDA | 56 | 356187 | 6371481 | Open site | Valid | Artefact : - | | 102231 |
| | **Contact** | **Recorders** | Australian Museum Consulting (AM Consulting),Mrs.Tessa Boer-Mah | | | | | **Permits** | 3201 | |
| 37-6-1325 | Swamp Creek RTA 10 IF (SWC RTA 10IF) | AGD | 56 | 356447 | 6370271 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2102 | |

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115u

Client Service ID : 834733

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-6-1356 | Swamp Creek RTA 4 | AGD | 56 | 356557 | 6370688 | Open site | Valid | Artefact : 4 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2102 | |
| 37-6-1955 | KK07 | GDA | 56 | 356742 | 6372396 | Open site | Valid | Artefact : 2 | | 102231 |
| | **Contact** | **Recorders** | Australian Museum Consulting (AM Consulting),Mrs.Tessa Boer-Mah | | | | | **Permits** | 3151,3203 | |
| 37-6-3060 | Hydro-AS17-14 | GDA | 56 | 357897 | 6372119 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Andrew McLaren | | | | | **Permits** | | |
| 37-6-3071 | Hydro-AS29-14 | GDA | 56 | 358225 | 6371002 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Andrew McLaren | | | | | **Permits** | | |
| 37-6-1957 | KK09 | GDA | 56 | 358372 | 6371638 | Open site | Valid | Artefact : 1 | | 102231 |
| | **Contact** | **Recorders** | Australian Museum Consulting (AM Consulting),Mrs.Tessa Boer-Mah | | | | | **Permits** | 3203 | |
| 37-6-3072 | Hydro-AS30-14 | GDA | 56 | 358420 | 6371046 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Andrew McLaren | | | | | **Permits** | | |
| 37-6-1954 | KK05 | GDA | 56 | 358577 | 6371627 | Open site | Valid | Artefact : 17 | | 102231 |
| | **Contact** | **Recorders** | Australian Museum Consulting (AM Consulting),Mrs.Tessa Boer-Mah | | | | | **Permits** | 3203 | |
| 38-4-1366 | Wallis Creek RTA 8 | GDA | 56 | 360032 | 6368267 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Miss.Steph Howden | | | | | **Permits** | | |

**** 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 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 352828.0 - 361927.0, Northings : 6367857.0 - 6373500.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 117**

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115t

Client Service ID : 834735

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-6-0171 | Farley;Farley N; | AGD | 56 | 355550 | 6377637 | Open site | Valid | Artefact : - | Open Camp Site | 102646 |
| | **Contact** | **Recorders** | Len Dyall | | | | | **Permits** | | |
| 37-6-1334 | Bishops Creek RTA 5 IF (BC RTA 5 IF) | AGD | 56 | 352100 | 6376485 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2102 | |
| 37-6-2131 | Allandale Rail 19 | GDA | 56 | 352466 | 6378346 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | | |
| 37-6-2016 | KR12 | GDA | 56 | 351625 | 6375120 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Australian Museum Consulting (AM Consulting),Mrs.Tessa Boer-Mah | | | | | **Permits** | 3201 | |
| 37-6-2935 | KR63 | GDA | 56 | 352096 | 6374866 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mrs.Jenna Weston | | | | | **Permits** | | |
| 37-6-1335 | Bishops Creek RTA 6 (BC RTA 6) | AGD | 56 | 352203 | 6376414 | Open site | Valid | Artefact : 11 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2102 | |
| 37-6-1354 | Sawyers Gully RTA 10 (SG RTA 10) | AGD | 56 | 352465 | 6375080 | Open site | Valid | Artefact : 14 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2102 | |
| 37-6-1353 | Sawyers Gully RTA 9 (SG RTA 9) | AGD | 56 | 352603 | 6375040 | Open site | Valid | Artefact : 4 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2102 | |
| 37-6-1352 | Sawyers Gully RTA 8 (SG RTA 8) | AGD | 56 | 352730 | 6375070 | Open site | Valid | Artefact : 4 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2102 | |
| 37-6-2129 | Station Lane 2 | GDA | 56 | 354524 | 6378532 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | 3286 | |
| 37-6-2020 | KR16 | GDA | 56 | 349249 | 6376332 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Australian Museum Consulting (AM Consulting),Mrs.Tessa Boer-Mah | | | | | **Permits** | 3201 | |
| 37-6-2243 | Lochinvar Rail 5 | GDA | 56 | 354113 | 6378433 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | Mr.Peter Kuskie | | | | | **Permits** | 3658 | |
| 37-6-2019 | KR15 | GDA | 56 | 349730 | 6375973 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Australian Museum Consulting (AM Consulting),Mrs.Tessa Boer-Mah | | | | | **Permits** | 3201 | |
| 37-6-0683 | Allandale #2 / Anvil Creek RTA 1 | AGD | 56 | 350700 | 6377860 | Open site | Valid | Artefact : 50 | Open Camp Site | 3169,102135,102646 |
| | **Contact** | **Recorders** | Helen Brayshaw,Leila McAdam | | | | | **Permits** | 2102,2541,2565,3343 | |
| 37-6-1366 | PAD14 Sawyers Gully | AGD | 56 | 352746 | 6375294 | Open site | Valid | Potential Archaeological Deposit (PAD) : 1 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2096,2562 | |
| 37-6-1349 | Sawyers Gully RTA 5 | AGD | 56 | 352946 | 6374761 | Open site | Valid | Artefact : 8 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2102 | |
| 37-6-1348 | Sawyers Gully RTA 4 | AGD | 56 | 353072 | 6374476 | Open site | Valid | Artefact : 4 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2102 | |

**Report generated by AHIMS Web Service on 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 348032.0 - 356124.0, Northings : 6373798.0 - 6378663.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 52**

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115t

Client Service ID : 834735

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-6-2234 | Allandale Rail 25 | GDA | 56 | 353306 | 6378118 | Open site | Valid | Artefact : 2 | | |
| | **Contact** | **Recorders** | Mr.Peter Kuskie | | | | | **Permits** | | |
| 37-6-2010 | KR07 | GDA | 56 | 354120 | 6373825 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Australian Museum Consulting (AM Consulting),Mrs.Tessa Boer-Mah | | | | | **Permits** | 3201 | |
| 37-6-1333 | Bishops Creek RTA 4 (BC RTA 4) | AGD | 56 | 351627 | 6376696 | Open site | Valid | Artefact : 14 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2102 | |
| 37-6-2014 | KR10 | GDA | 56 | 352055 | 6374896 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Australian Museum Consulting (AM Consulting),Mrs.Tessa Boer-Mah | | | | | **Permits** | 3201 | |
| 37-6-1332 | Bishops Creek RTA 3 | AGD | 56 | 351925 | 6376897 | Open site | Valid | Artefact : 2 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2102 | |
| 37-6-2013 | KR09 | GDA | 56 | 352119 | 6374818 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Australian Museum Consulting (AM Consulting),Mrs.Tessa Boer-Mah | | | | | **Permits** | 3201 | |
| 37-6-1336 | Bishops Creek RTA 7 (BC RTA 7) | AGD | 56 | 352438 | 6376163 | Open site | Valid | Artefact : 4 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2102 | |
| 37-6-2235 | Allandale Rail 26 | GDA | 56 | 353160 | 6378088 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | Mr.Peter Kuskie | | | | | **Permits** | | |
| 37-6-1347 | Sawyers Gully RTA 3 | AGD | 56 | 353372 | 6374064 | Open site | Valid | Artefact : 86 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2102,2562 | |
| 37-6-2190 | Station Lane 1 | GDA | 56 | 354641 | 6378413 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | 3286,3658 | |
| 37-6-2132 | Allandale Rail 20 | GDA | 56 | 352850 | 6378343 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | | |
| 37-6-1653 | Northern Swamp Tributaries 1 | AGD | 56 | 353795 | 6375473 | Open site | Valid | Artefact : 20 | | 100062 |
| | **Contact** Searle | **Recorders** | Ms.Tudur Llwyd Davies | | | | | **Permits** | 2520,2660 | |
| 37-6-1346 | Sawyers Gully RTA 2 IF | AGD | 56 | 354033 | 6373623 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2102 | |
| 37-6-1326 | Anvil Creek RTA 23 IF | AGD | 56 | 350297 | 6377491 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2102 | |
| 37-6-1231 | Anvil Creek RTA 2 IF | AGD | 56 | 350474 | 6378069 | Open site | Valid | Artefact : 1 | | 102135 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2102 | |
| 37-6-2015 | KR11 | GDA | 56 | 351985 | 6374910 | Open site | Valid | Grinding Groove : - | | |
| | **Contact** | **Recorders** | Australian Museum Consulting (AM Consulting),Mrs.Tessa Boer-Mah | | | | | **Permits** | 3201 | |
| 37-6-1331 | Bishops Creek RTA 2 | AGD | 56 | 352562 | 6376287 | Open site | Valid | Artefact : 10 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2102 | |
| 37-6-2018 | KR14 | GDA | 56 | 349857 | 6375995 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Australian Museum Consulting (AM Consulting),Mrs.Tessa Boer-Mah | | | | | **Permits** | 3201 | |

**Report generated by AHIMS Web Service on 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 348032.0 - 356124.0, Northings : 6373798.0 - 6378663.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 52**

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115t

Client Service ID : 834735

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-6-1330 | Bishops Creek RTA 1 | AGD | 56 | 352613 | 6375973 | Open site | Valid | Artefact : 3 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2102 | |
| 37-6-2187 | Lochinvar Rail 1 | GDA | 56 | 354485 | 6378465 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | 3658 | |
| 37-6-1338 | Bishops Creek RTA 9 | AGD | 56 | 352534 | 6376325 | Open site | Valid | Artefact : 6 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2102 | |
| 37-6-0684 | Allandale #1 | AGD | 56 | 350260 | 6378260 | Open site | Valid | Artefact : - | Open Camp Site | 3169,102135,102646 |
| | **Contact** | **Recorders** | Helen Brayshaw | | | | | **Permits** | | |
| 37-6-3811 | Bishops Bridge PAD 1 | GDA | 56 | 355530 | 6374943 | Open site | Valid | Potential Archaeological Deposit (PAD) : 1 | | |
| | **Contact** | **Recorders** | Advitech Pty Limited,Ms.Viki Gordon | | | | | **Permits** | | |
| 37-6-2017 | KR13 | GDA | 56 | 351476 | 6375201 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Australian Museum Consulting (AM Consulting),Mrs.Tessa Boer-Mah | | | | | **Permits** | 3201 | |
| 37-6-1337 | Bishops Creek RTA 8 (BC RTA 8) | AGD | 56 | 352065 | 6377092 | Open site | Valid | Artefact : 4 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2102 | |
| 37-6-1367 | Bishops Creek RTA 10 (formerly PAD15 Bishops Creek) | AGD | 56 | 352549 | 6376170 | Open site | Valid | Potential Archaeological Deposit (PAD) : 1 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2096,2562 | |
| 37-6-1351 | Sawyers Gully RTA 7 | AGD | 56 | 352670 | 6375451 | Open site | Valid | Artefact : 2 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2102 | |
| 37-6-2233 | Allandale Rail 24 | GDA | 56 | 352992 | 6378091 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | Mr.Peter Kuskie | | | | | **Permits** | | |
| 37-6-2133 | Allandale Rail 21 | GDA | 56 | 353051 | 6378222 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | 3658 | |
| 37-6-2012 | KR08a | GDA | 56 | 353324 | 6374237 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Australian Museum Consulting (AM Consulting),Mrs.Tessa Boer-Mah | | | | | **Permits** | 3201 | |
| 37-6-1365 | PAD13 Sawyers Gully | AGD | 56 | 353293 | 6374118 | Open site | Valid | Potential Archaeological Deposit (PAD) : 1 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2096,2562 | |
| 37-6-2011 | KR08 | GDA | 56 | 353440 | 6374169 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Australian Museum Consulting (AM Consulting),Mrs.Tessa Boer-Mah | | | | | **Permits** | 3201 | |
| 37-6-2021 | KR17 | GDA | 56 | 348056 | 6376883 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Australian Museum Consulting (AM Consulting),Mrs.Tessa Boer-Mah | | | | | **Permits** | 3201 | |
| 37-6-1350 | Sawyers Gully RTA 6 | AGD | 56 | 352785 | 6375244 | Open site | Valid | Artefact : 8 | | |

**Report generated by AHIMS Web Service on 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 348032.0 - 356124.0, Northings : 6373798.0 - 6378663.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 52**

This information is not guaranteed to be free from error omission. Heritage NSW and its employees disclaim liability for any act done or omission made on the information and consequences of such acts or omission.

# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115t

Client Service ID : 834735

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2102,2562 | |
| 37-6-1327 | Anvil Creek RTA 24 | AGD | 56 | 350421 | 6377570 | Open site | Valid | Artefact : 5 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2102 | |

**** 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 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 348032.0 - 356124.0, Northings : 6373798.0 - 6378663.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 52**

This information is not guaranteed to be free from error omission. Heritage NSW and its employees disclaim liability for any act done or omission made on the information and consequences of such acts or omission.

# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115s

Client Service ID : 834738

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-6-3686 | Huntlee 20 S12 | GDA | 56 | 346697 | 6383358 | Open site | Destroyed | Artefact : - | | |
| | **Contact** | **Recorders** | RPS AAP Consulting Pty Ltd - Hamilton,RPS AAP Consulting Pty Ltd - Hamilton,Mr.I | | | | | **Permits** | | |
| 37-6-2183 | Greta Rail 15 | GDA | 56 | 349323 | 6381187 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | 3658 | |
| 37-6-1321 | Anvil Creek RTA 19 | AGD | 56 | 347320 | 6383275 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2102 | |
| 37-6-1329 | Anvil Creek RTA 26 | AGD | 56 | 348405 | 6379419 | Open site | Valid | Artefact : 2 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2102 | |
| 37-6-2819 | Greta Rail 30 | GDA | 56 | 348479 | 6382461 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology,Mr.Stephen Free | | | | | **Permits** | | |
| 37-6-3955 | South Greta IF 1 | GDA | 56 | 348655 | 6382278 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Biosis Pty Ltd - Wollongong,Mrs.Samantha Keats | | | | | **Permits** | 4858 | |
| 37-6-4325 | Nelson St Greta AFT-01 | GDA | 56 | 348734 | 6382347 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Heritage Now - Belmont,Mrs.Jenna Weston | | | | | **Permits** | | |
| 37-6-1667 | Greta Village Estate - 4 (GVE-4) | GDA | 56 | 348798 | 6379934 | Open site | Valid | Artefact : 70 | | |
| | **Contact** Searle | **Recorders** | AECOM Australia Pty Ltd - Sydney | | | | | **Permits** | 2565,3343 | |
| 37-6-1658 | Greta Village Estate - 1 (GVE-1) | GDA | 56 | 348810 | 6381342 | Open site | Valid | Artefact : 35 | | 100119 |
| | **Contact** Searle | **Recorders** | Ms.Meaghan Russell | | | | | **Permits** | 2565,3343 | |
| 37-6-4199 | AS6_Huntlee | GDA | 56 | 346270 | 6382433 | Open site | Destroyed | Artefact : - | | |
| | **Contact** | **Recorders** | Niche Environment and Heritage,Niche Environment and Heritage,Miss.Kate Morri | | | | | **Permits** | | |
| 37-6-3673 | Huntlee 33 S12a | GDA | 56 | 346369 | 6383503 | Open site | Destroyed | Artefact : - | | 104464 |
| | **Contact** | **Recorders** | RPS AAP Consulting Pty Ltd - Hamilton,RPS AAP Consulting Pty Ltd - Hamilton,Mr.I | | | | | **Permits** | | |
| 37-6-3676 | Huntlee 26 S12 | GDA | 56 | 346675 | 6383391 | Open site | Destroyed | Artefact : - | | 104464 |
| | **Contact** | **Recorders** | RPS AAP Consulting Pty Ltd - Hamilton,RPS AAP Consulting Pty Ltd - Hamilton,Mr.I | | | | | **Permits** | | |
| 37-6-4201 | IF4_Huntlee | GDA | 56 | 347893 | 6383450 | Open site | Destroyed | Artefact : - | | |
| | **Contact** | **Recorders** | Niche Environment and Heritage,Niche Environment and Heritage,Miss.Kate Morri | | | | | **Permits** | | |
| 37-6-2165 | Sawyers Creek Artefact Scatter 1 | GDA | 56 | 348252 | 6382341 | Open site | Valid | Artefact : 125 | | 101839,102228,102230 |
| | **Contact** | **Recorders** | Mr.Joseph Brooke | | | | | **Permits** | | |
| 37-6-3809 | Anvil Creek Bridge IF (ACB 1) | GDA | 56 | 348713 | 6382275 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | RPS AAP Consulting Pty Ltd - Hamilton,Ms.Jo Nelson | | | | | **Permits** | | |
| 37-6-2177 | Greta Rail 9 | GDA | 56 | 349053 | 6381533 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | 3658 | |
| 37-6-2184 | Greta Rail 17 | GDA | 56 | 349354 | 6381151 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | | |
| 37-6-2186 | Greta Rail 19 | GDA | 56 | 349771 | 6380820 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | 3658 | |

**Report generated by AHIMS Web Service on 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 346165.0 - 350248.0, Northings : 6378676.0 - 6383600.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 101**

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| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-6-3400 | Huntlee 8 | GDA | 56 | 346178 | 6383174 | Open site | Destroyed | Artefact : - | | 104464 |
| | **Contact** | **Recorders** | RPS AAP Consulting Pty Ltd - Hamilton,Ms.Cheng-Yen Loo,Mr.Ben Slack | | | | | **Permits** | | |
| 37-6-3675 | Huntlee 27 S12 | GDA | 56 | 346694 | 6383370 | Open site | Destroyed | Artefact : - | | 104464 |
| | **Contact** | **Recorders** | RPS AAP Consulting Pty Ltd - Hamilton,RPS AAP Consulting Pty Ltd - Hamilton,Mr.I | | | | | **Permits** | | |
| 37-6-4087 | GG1_Potential Grinding Groove Huntlee | GDA | 56 | 346586 | 6382500 | Open site | Valid | Grinding Groove : - | | 104464 |
| | **Contact** | **Recorders** | RPS AAP Consulting Pty Ltd - Newcastle,RPS AAP Consulting Pty Ltd - Newcastle,M | | | | | **Permits** | | |
| 37-6-3688 | Huntlee 23 S12 | GDA | 56 | 346668 | 6383437 | Open site | Destroyed | Artefact : - | | 104464 |
| | **Contact** | **Recorders** | RPS AAP Consulting Pty Ltd - Hamilton,RPS AAP Consulting Pty Ltd - Hamilton,Mr.I | | | | | **Permits** | | |
| 37-6-3672 | Huntlee 32 S12 | GDA | 56 | 346704 | 6383388 | Open site | Destroyed | Artefact : - | | 104464 |
| | **Contact** | **Recorders** | RPS AAP Consulting Pty Ltd - Hamilton,RPS AAP Consulting Pty Ltd - Hamilton,Mr.I | | | | | **Permits** | | |
| 37-6-1320 | Anvil Creek RTA 18 IF | AGD | 56 | 347514 | 6383070 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2102 | |
| 37-6-2816 | Greta Rail 33 | GDA | 56 | 348454 | 6383139 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology,Mr.Leigh Bate | | | | | **Permits** | | |
| 37-6-1328 | Anvil Creek RTA 25 | AGD | 56 | 348427 | 6379148 | Open site | Valid | Artefact : 15 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2102 | |
| 37-6-2211 | Greta Rail 24 | GDA | 56 | 348520 | 6382050 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | Mr.Peter Kuskie | | | | | **Permits** | 3286 | |
| 37-6-2174 | Greta Rail 6 | GDA | 56 | 348765 | 6381887 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | | |
| 37-6-1377 | South Greta - 1 | AGD | 56 | 348724 | 6382298 | Open site | Valid | Aboriginal Resource and Gathering : - | | |
| | **Contact** T Russell | **Recorders** | Mr.Giles (dup ID#12832) Hamm,Mr.Giles (dup ID#12832) Hamm | | | | | **Permits** | 2826,2828 | |
| 37-6-1674 | Greta Village Estate - 8 (GVE-8) | GDA | 56 | 349462 | 6378701 | Open site | Valid | Artefact : 11 | | 100147 |
| | **Contact** Searle | **Recorders** | AECOM Australia Pty Ltd - Sydney | | | | | **Permits** | 2565,3343 | |
| 37-6-2242 | Greta Rail 26 | GDA | 56 | 349680 | 6380822 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | Mr.Peter Kuskie | | | | | **Permits** | | |
| 37-6-3402 | Huntlee 10 | GDA | 56 | 346177 | 6383176 | Open site | Destroyed | Artefact : - | | 104464 |
| | **Contact** | **Recorders** | RPS AAP Consulting Pty Ltd - Hamilton,Ms.Cheng-Yen Loo,Mr.Ben Slack | | | | | **Permits** | | |
| 37-6-1369 | Anvil Creek RTA 28 (Formerly PAD17 Anvil Creek) | AGD | 56 | 347968 | 6382047 | Open site | Valid | Potential Archaeological Deposit (PAD) : 1 | | 101116 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2096,2562 | |
| 37-6-3401 | Huntlee 9 | GDA | 56 | 346188 | 6383173 | Open site | Destroyed | Artefact : - | | 104464 |
| | **Contact** | **Recorders** | RPS AAP Consulting Pty Ltd - Hamilton,Ms.Cheng-Yen Loo,Mr.Ben Slack | | | | | **Permits** | | |
| 37-6-3669 | Huntlee 29 S12 | GDA | 56 | 346662 | 6383399 | Open site | Destroyed | Artefact : - | | 104464 |
| | **Contact** | **Recorders** | RPS AAP Consulting Pty Ltd - Hamilton,RPS AAP Consulting Pty Ltd - Hamilton,Mr.I | | | | | **Permits** | | |

**Report generated by AHIMS Web Service on 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 346165.0 - 350248.0, Northings : 6378676.0 - 6383600.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 101**

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115s

Client Service ID : 834738

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-6-3689 | Huntlee 22 S12 | GDA | 56 | 346706 | 6383437 | Open site | Destroyed | Artefact : - | | 104464 |
| | **Contact** | **Recorders** | RPS AAP Consulting Pty Ltd - Hamilton,RPS AAP Consulting Pty Ltd - Hamilton,Mr.I | | | | | **Permits** | | |
| 37-6-1318 | Anvil Creek RTA 16 GG | AGD | 56 | 347603 | 6381993 | Open site | Valid | Grinding Groove : 3 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | | |
| 37-6-2212 | SawyersCreek Artefact Scatter2 | GDA | 56 | 348326 | 6382510 | Open site | Valid | Art (Pigment or Engraved) : 1, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Mr.Joseph Brooke | | | | | **Permits** | | |
| 37-6-1308 | Anvil Creek RTA 6 | AGD | 56 | 348261 | 6380155 | Open site | Valid | Artefact : 6 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2102 | |
| 37-6-2815 | Greta Rail 34 | GDA | 56 | 348390 | 6383202 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology,Mr.Leigh Bate | | | | | **Permits** | | |
| 37-6-2208 | Greta Rail 21 | GDA | 56 | 348660 | 6382220 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | Mr.Peter Kuskie | | | | | **Permits** | 3286 | |
| 37-6-2813 | Greta Rail 36 | GDA | 56 | 348813 | 6381828 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology,Mr.Stephen Free | | | | | **Permits** | 3658 | |
| 37-6-2180 | Greta Rail 12 | GDA | 56 | 349145 | 6381379 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | | |
| 37-6-1232 | Anvil Creek RTA 3 (Incorporating #37-6-1368 PAD16 Anvil Creek) | GDA | 56 | 349435 | 6378803 | Open site | Partially Destroyed | Artefact : 50 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Umwelt (Australia) Pty Limited - | | | | | **Permits** | 2096,2562 | |
| 37-6-2185 | Greta Rail 18 | GDA | 56 | 349523 | 6380980 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | | |
| 37-6-1669 | Greta Village Estate - 6 (GVE-6) | GDA | 56 | 349717 | 6378735 | Closed site | Valid | Artefact : 47 | | 100147 |
| | **Contact** Searle | **Recorders** | AECOM Australia Pty Ltd - Sydney | | | | | **Permits** | 2565,3343 | |
| 37-6-1670 | Greta Village Estate - 7 (GVE-7) | GDA | 56 | 350206 | 6379487 | Open site | Valid | Artefact : 1 | | 100147 |
| | **Contact** Searle | **Recorders** | AECOM Australia Pty Ltd - Sydney | | | | | **Permits** | 2565,3343 | |
| 37-6-3678 | Huntlee 24 S12 | GDA | 56 | 346680 | 6383403 | Open site | Destroyed | Artefact : - | | 104464 |
| | **Contact** | **Recorders** | RPS AAP Consulting Pty Ltd - Hamilton,RPS AAP Consulting Pty Ltd - Hamilton,Mr.I | | | | | **Permits** | | |
| 37-6-3674 | Huntlee 28 S12 | GDA | 56 | 346678 | 6383560 | Open site | Destroyed | Artefact : - | | 104464 |
| | **Contact** | **Recorders** | RPS AAP Consulting Pty Ltd - Hamilton,RPS AAP Consulting Pty Ltd - Hamilton,Mr.I | | | | | **Permits** | | |
| 37-6-1319 | Anvil Creek RTA 17 | AGD | 56 | 347555 | 6382486 | Open site | Valid | Artefact : 2 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2102 | |
| 37-6-4152 | Mount Molly Morgan | GDA | 56 | 348129 | 6379715 | Open site | Valid | Aboriginal Ceremony and Dreaming : -, Artefact : - | | |

**Report generated by AHIMS Web Service on 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 346165.0 - 350248.0, Northings : 6378676.0 - 6383600.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 101**

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115s

Client Service ID : 834738

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| | **Contact** | **Recorders** | Miss.Rachel (Elle) (left Virtus Company) Lillis,Virtus Heritage Pty Ltd - Pottsville | | | | | **Permits** | | |
| 37-6-1311 | Anvil Creek RTA 9 | AGD | 56 | 348157 | 6381182 | Open site | Valid | Artefact : 6 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2102 | |
| 37-6-2171 | Greta Rail 3 | GDA | 56 | 348402 | 6382612 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | 3286 | |
| 37-6-2821 | Greta Rail 28 | GDA | 56 | 348575 | 6382830 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology,Mr.Stephen Free | | | | | **Permits** | | |
| 37-6-1307 | Anvil Creek RTA 5 | AGD | 56 | 348555 | 6379373 | Open site | Valid | Artefact : 10 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2102 | |
| 37-6-2209 | Greta Rail 22 | GDA | 56 | 348700 | 6382120 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | Mr.Peter Kuskie | | | | | **Permits** | 3286 | |
| 37-6-2241 | Greta Rail 25 | GDA | 56 | 348789 | 6382090 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | Mr.Peter Kuskie | | | | | **Permits** | | |
| 37-6-2178 | Greta Rail 10 | GDA | 56 | 349035 | 6381496 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | | |
| 37-6-2179 | Greta Rail 11 | GDA | 56 | 349091 | 6381442 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | | |
| 37-6-1666 | Greta Village Estate - 3 (GVE-3) | GDA | 56 | 349103 | 6380916 | Open site | Valid | Artefact : 5 | | 100147 |
| | **Contact** Searle | **Recorders** | AECOM Australia Pty Ltd - Sydney | | | | | **Permits** | 2565,3343 | |
| 37-6-2812 | Greta Rail 37 | GDA | 56 | 349591 | 6380983 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology,Mr.Stephen Free | | | | | **Permits** | 3658 | |
| 37-6-3671 | Huntlee 31 S12 | GDA | 56 | 346680 | 6383407 | Open site | Destroyed | Artefact : - | | 104464 |
| | **Contact** | **Recorders** | RPS AAP Consulting Pty Ltd - Hamilton,RPS AAP Consulting Pty Ltd - Hamilton,Mr.I | | | | | **Permits** | | |
| 37-6-2181 | Greta Rail 13 | GDA | 56 | 349214 | 6381315 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | | |
| 37-6-2182 | Greta Rail 14 | GDA | 56 | 349268 | 6381246 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | | |
| 37-6-3657 | Huntlee 16 | GDA | 56 | 346180 | 6383574 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | RPS AAP Consulting Pty Ltd - Hamilton,Mr.Ben Slack | | | | | **Permits** | | |
| 37-6-4198 | AS4_Huntlee | GDA | 56 | 346455 | 6383526 | Open site | Destroyed | Artefact : - | | |
| | **Contact** | **Recorders** | Niche Environment and Heritage,Niche Environment and Heritage,Miss.Kate Morri | | | | | **Permits** | | |
| 37-6-3677 | Huntlee 25 S12 | GDA | 56 | 346711 | 6383387 | Open site | Destroyed | Artefact : - | | 104464 |
| | **Contact** | **Recorders** | RPS AAP Consulting Pty Ltd - Hamilton,RPS AAP Consulting Pty Ltd - Hamilton,Mr.I | | | | | **Permits** | | |
| 37-6-1316 | Anvil Creek RTA 14 IF | AGD | 56 | 347523 | 6381821 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2102 | |
| 37-6-2811 | Greta Rail 38 | GDA | 56 | 347954 | 6381020 | Open site | Valid | Artefact : 1 | | |

**Report generated by AHIMS Web Service on 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 346165.0 - 350248.0, Northings : 6378676.0 - 6383600.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 101**

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115s

Client Service ID : 834738

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| | **Contact** | **Recorders** | South East Archaeology,Mr.Stephen Free | | | | | **Permits** | 3658 | |
| 37-6-2172 | Greta Rail 4 | GDA | 56 | 348243 | 6382330 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | | |
| 37-6-1309 | Anvil Creek RTA 7 | AGD | 56 | 348234 | 6380400 | Open site | Valid | Artefact : 10 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2102 | |
| 37-6-2164 | Sawyers Creek Artefact Scatter 2 | GDA | 56 | 348326 | 6382510 | Open site | Valid | Artefact : 102 | | 101839,102230 |
| | **Contact** | **Recorders** | Mr.Joseph Brooke | | | | | **Permits** | | |
| 37-6-2820 | Greta Rail 29 | GDA | 56 | 348649 | 6382784 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology,Mr.Stephen Free | | | | | **Permits** | | |
| 33-6-0030 | Greta Rail 20 | GDA | 56 | 348735 | 6382305 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | Mr.Peter Kuskie | | | | | **Permits** | 3286 | |
| 37-6-2210 | Greta Rail 23 | GDA | 56 | 348772 | 6382155 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | Mr.Peter Kuskie | | | | | **Permits** | | |
| 37-6-2175 | Greta Rail 7 | GDA | 56 | 348900 | 6381634 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | 3658 | |
| 37-6-1672 | Greta Village Estate - 10 (GVE -10) | GDA | 56 | 349024 | 6379967 | Open site | Valid | Artefact : 5, Potential Archaeological Deposit (PAD) : 1 | | 100147 |
| | **Contact** Searle | **Recorders** | AECOM Australia Pty Ltd - Sydney | | | | | **Permits** | 2565,3343 | |
| 37-6-2176 | Greta Rail 8 | GDA | 56 | 349033 | 6381563 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | 3658 | |
| 37-6-2809 | Greta Rail 40 | GDA | 56 | 349395 | 6381164 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology,Mr.Stephen Free | | | | | **Permits** | 3658 | |
| 37-6-1368 | PAD16 Anvil Creek | AGD | 56 | 349330 | 6378614 | Open site | Valid | Potential Archaeological Deposit (PAD) : 1, Artefact : - | | 101116,102113 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2096,2562 | |
| 37-6-2810 | Greta Rail 39 | GDA | 56 | 349457 | 6381114 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology,Mr.Stephen Free | | | | | **Permits** | 3658 | |
| 37-6-4168 | Government Railway Corridor ACD | GDA | 56 | 349534 | 6381157 | Open site | Valid | Aboriginal Ceremony and Dreaming : - | | |
| | **Contact** | **Recorders** | Miss.Rachel (Elle) (left Virtus Company) Lillis,Virtus Heritage Pty Ltd - Pottsville | | | | | **Permits** | | |
| 37-6-4169 | Greta Migrant Camp PAD | GDA | 56 | 349681 | 6379922 | Open site | Valid | Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Miss.Rachel (Elle) (left Virtus Company) Lillis,Virtus Heritage Pty Ltd - Pottsville | | | | | **Permits** | | |
| 37-6-4086 | AS1_Huntlee_Artefact_Scatter | GDA | 56 | 346527 | 6382363 | Open site | Valid | Artefact : - | | 104464 |

**Report generated by AHIMS Web Service on 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 346165.0 - 350248.0, Northings : 6378676.0 - 6383600.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 101**

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115s

Client Service ID : 834738

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| | **Contact** | **Recorders** | RPS AAP Consulting Pty Ltd - Newcastle,RPS AAP Consulting Pty Ltd - Newcastle,M | | | | | **Permits** | | |
| 37-6-1317 | Anvil Creek RTA 15 | AGD | 56 | 347497 | 6381914 | Open site | Valid | Artefact : 300 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | | |
| 37-6-2814 | Greta Rail 35 | GDA | 56 | 348210 | 6383232 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology,Mr.Leigh Bate | | | | | **Permits** | | |
| 37-6-1310 | Anvil Creek RTA 8 | AGD | 56 | 348175 | 6380957 | Open site | Valid | Artefact : 4 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2102 | |
| 37-6-2736 | Greta Rail 2 (GR2) | GDA | 56 | 348345 | 6382566 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | Ms.Penny Mccardle | | | | | **Permits** | | |
| 37-6-2822 | Greta Rail 27 | GDA | 56 | 348514 | 6382582 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology,Mr.Stephen Free | | | | | **Permits** | | |
| 37-6-2818 | Greta Rail 31 | GDA | 56 | 348553 | 6382459 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology,Mr.Leigh Bate | | | | | **Permits** | | |
| 37-6-1306 | Anvil Creek RTA 4 IF | AGD | 56 | 348676 | 6379207 | Open site | Valid | Artefact : - | | |
| | **Contact** T Russell | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2102 | |
| 37-6-1665 | Greta Village Estate - 2 (GVE-2) | GDA | 56 | 348917 | 6381332 | Open site | Valid | Artefact : 12 | | 100147,102600 |
| | **Contact** Searle | **Recorders** | AECOM Australia Pty Ltd - Sydney | | | | | **Permits** | 2565,3343 | |
| 37-6-2128 | Greta Rail 16 | GDA | 56 | 349372 | 6381173 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | 3658 | |
| 37-6-3670 | Huntlee 30 S12 | GDA | 56 | 346679 | 6383358 | Open site | Destroyed | Artefact : - | | 104464 |
| | **Contact** | **Recorders** | RPS AAP Consulting Pty Ltd - Hamilton,RPS AAP Consulting Pty Ltd - Hamilton,Mr.I | | | | | **Permits** | | |
| 37-6-1378 | South Greta - 3 | AGD | 56 | 349053 | 6382177 | Open site | Valid | Aboriginal Resource and Gathering : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** T Russell | **Recorders** | Mr.Giles (dup ID#12832) Hamm,Mr.Giles (dup ID#12832) Hamm | | | | | **Permits** | 2826,2828 | |
| 37-6-3690 | Huntlee 21 S12 | GDA | 56 | 346704 | 6383426 | Open site | Destroyed | Artefact : - | | 104464 |
| | **Contact** | **Recorders** | RPS AAP Consulting Pty Ltd - Hamilton,RPS AAP Consulting Pty Ltd - Hamilton,Mr.I | | | | | **Permits** | | |
| 37-6-4204 | AS9_Huntlee | GDA | 56 | 347516 | 6383483 | Open site | Destroyed | Artefact : - | | |
| | **Contact** | **Recorders** | Niche Environment and Heritage,Niche Environment and Heritage,Miss.Kate Morri | | | | | **Permits** | | |
| 37-6-2737 | Greta Rail 1 (GR1) | GDA | 56 | 348309 | 6382129 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | Ms.Penny Mccardle | | | | | **Permits** | | |
| 37-6-2817 | Greta Rail 32 | GDA | 56 | 348503 | 6382939 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology,Mr.Leigh Bate | | | | | **Permits** | | |
| 37-6-2173 | Greta Rail 5 | GDA | 56 | 348600 | 6382086 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | Doctor.Johan Kamminga | | | | | **Permits** | 3286 | |

**Report generated by AHIMS Web Service on 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 346165.0 - 350248.0, Northings : 6378676.0 - 6383600.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 101**

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115s

Client Service ID : 834738

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-6-1673 | Greta Village Estate - 11 (GVE-11) | GDA | 56 | 349603 | 6380013 | Open site | Valid | Artefact : 3 | | 100147 |

**Contact** Searle **Recorders** AECOM Australia Pty Ltd - Sydney **Permits** 2565,3343

**** 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 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 346165.0 - 350248.0, Northings : 6378676.0 - 6383600.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 101**

This information is not guaranteed to be free from error omission. Heritage NSW and its employees disclaim liability for any act done or omission made on the information and consequences of such acts or omission.

# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115r

Client Service ID : 834750

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-6-1034 | AGL 3 | AGD | 56 | 341557 | 6385586 | Open site | Valid | Artefact : 2 | | 4749 |
| | **Contact** | **Recorders** | Victor Perry | | | | | **Permits** | | |
| 37-6-3916 | HAF011 | GDA | 56 | 345356 | 6384393 | Open site | Valid | Artefact : - | | 104464 |
| | **Contact** | **Recorders** | RPS AAP Consulting Pty Ltd - Hamilton,Mr.Ben Slack | | | | | **Permits** | | |
| 37-6-2227 | Elderslie Road OC2 | GDA | 56 | 345388 | 6386531 | Open site | Valid | Artefact : 10 | | 102402 |
| | **Contact** | **Recorders** | Mr.Paul Irish,Mr.Paul Irish,Mr.Joshua Connelly | | | | | **Permits** | | |
| 37-6-3801 | Huntlee 48 | GDA | 56 | 345541 | 6384616 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | RPS AAP Consulting Pty Ltd - Hamilton,Mr.Ben Slack | | | | | **Permits** | | |
| 37-6-2142 | Belford Rail 9 | GDA | 56 | 339720 | 6385130 | Open site | Valid | Artefact : 1 | | 102402 |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | 3286 | |
| 37-6-2095 | Restriction applied. Please contact ahims@environment.nsw.gov.au. | | | | | Open site | Valid | | | |
| | **Contact** | **Recorders** | Ms.Suzie Worth | | | | | **Permits** | | |
| 37-6-2236 | Belford Rail 16 | GDA | 56 | 340485 | 6384650 | Open site | Valid | Artefact : 1 | | 102402 |
| | **Contact** | **Recorders** | Mr.Peter Kuskie | | | | | **Permits** | | |
| 37-6-2239 | Belford Rail 19 | GDA | 56 | 341230 | 6384460 | Open site | Valid | Artefact : 1 | | 102402 |
| | **Contact** | **Recorders** | Mr.Peter Kuskie | | | | | **Permits** | | |
| 37-6-2746 | Black Creek RTA6 | GDA | 56 | 342896 | 6385639 | Open site | Destroyed | Artefact : 5 | | 102402 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Janice Wilson,Mr.Kirwan William | | | | | **Permits** | 3467 | |
| 37-6-1340 | Black Creek RTA 3 | AGD | 56 | 342812 | 6385305 | Open site | Valid | Artefact : 3 | | 102402,102600 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2102 | |
| 37-6-3920 | HAF005 | GDA | 56 | 345730 | 6383732 | Open site | Valid | Artefact : - | | 104464 |
| | **Contact** | **Recorders** | RPS AAP Consulting Pty Ltd - Hamilton,Mr.Ben Slack | | | | | **Permits** | | |
| 37-6-1603 | Redhouse Creek 1 | AGD | 56 | 346462 | 6384549 | Open site | Valid | Artefact : 34 | | 102113 |
| | **Contact** T Russell | **Recorders** | Umwelt (Australia) Pty Limited - Individual users | | | | | **Permits** | 2562 | |
| 37-6-0995 | AGL 2 | AGD | 56 | 341557 | 6385590 | Open site | Valid | Artefact : - | | 4749,102056,102135 |
| | **Contact** | **Recorders** | Junburra Aboriginal Consultancy Services | | | | | **Permits** | | |
| 37-6-0685 | Black Creek RTA 1 (Brayshaw - Black Creek) | AGD | 56 | 343278 | 6385345 | Open site | Valid | Artefact : 2 | Open Camp Site | 3169,102056,102135,102402,102646 |
| | **Contact** | **Recorders** | Helen Brayshaw,Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | | |
| 37-6-3802 | Huntlee 47 | GDA | 56 | 345533 | 6384050 | Open site | Destroyed | Artefact : - | | 104464 |
| | **Contact** | **Recorders** | RPS AAP Consulting Pty Ltd - Hamilton,RPS AAP Consulting Pty Ltd - Hamilton,Mr.I | | | | | **Permits** | | |
| 37-6-2826 | Black Creek RTA 10 IF | GDA | 56 | 342879 | 6385621 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Janice Wilson | | | | | **Permits** | 3654 | |
| 37-6-2750 | Black Creek RTA10 IF | GDA | 56 | 342879 | 6385621 | Open site | Valid | Artefact : 1 | | 102402 |

**Report generated by AHIMS Web Service on 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 338265.0 - 348330.0, Northings : 6383727.0 - 6386544.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 105**

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115r

Client Service ID : 834750

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| | **Contact** | **Recorders** | Janice Wilson | | | | | **Permits** | 3467 | |
| 37-6-2240 | Belford Rail 20 | GDA | 56 | 341380 | 6384470 | Open site | Valid | Artefact : 1 | | 102402 |
| | **Contact** | **Recorders** | Mr.Peter Kuskie | | | | | **Permits** | | |
| 37-6-3924 | HAF01 | GDA | 56 | 344603 | 6384341 | Open site | Valid | Artefact : - | | 104464 |
| | **Contact** | **Recorders** | RPS AAP Consulting Pty Ltd - Hamilton,Mr.Ben Slack | | | | | **Permits** | | |
| 37-6-2160 | Branxton Rail 12 | GDA | 56 | 345091 | 6384829 | Open site | Valid | Artefact : 1 | | 102402 |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | 3658 | |
| 37-6-0996 | AGL 1 | AGD | 56 | 346261 | 6385543 | Open site | Valid | Artefact : - | | 4749,102113,102646 |
| | **Contact** | **Recorders** | Junburra Aboriginal Consultancy Services | | | | | **Permits** | | |
| 37-6-3680 | Huntlee 35 S12a | GDA | 56 | 346567 | 6383748 | Open site | Destroyed | Artefact : - | | 104464 |
| | **Contact** | **Recorders** | RPS AAP Consulting Pty Ltd - Hamilton,RPS AAP Consulting Pty Ltd - Hamilton,Mr.I | | | | | **Permits** | | |
| 37-6-2167 | Branxton Rail 16 | GDA | 56 | 347272 | 6383992 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | | |
| 37-6-0332 | Jump Up Creek No.1 | AGD | 56 | 338384 | 6386001 | Open site | Valid | Artefact : - | Open Camp Site | 435,102402,102646 |
| | **Contact** | **Recorders** | Phil Hughes | | | | | **Permits** | 468 | |
| 37-6-2824 | Branxton Rail 17 | GDA | 56 | 343644 | 6385315 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | 3658 | |
| 37-6-3805 | Huntlee 44 | GDA | 56 | 345410 | 6384291 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | RPS AAP Consulting Pty Ltd - Hamilton,Mr.Ben Slack | | | | | **Permits** | | |
| 37-6-2207 | Branxton RW 41/A | GDA | 56 | 345496 | 6384504 | Open site | Valid | Artefact : 1 | | 102402,104464 |
| | **Contact** | **Recorders** | Mr.Peter Kuskie | | | | | **Permits** | | |
| 37-6-1313 | Anvil Creek RTA 11 IF | AGD | 56 | 345965 | 6384253 | Open site | Valid | Artefact : 1 | | 102113 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2102 | |
| 37-6-0987 | AGL4 | AGD | 56 | 340187 | 6385454 | Open site | Valid | Artefact : - | | 4749,102402 |
| | **Contact** | **Recorders** | Junburra Aboriginal Consultancy Services | | | | | **Permits** | | |
| 37-6-2153 | Branxton Rail 5 | GDA | 56 | 342891 | 6385397 | Open site | Valid | Artefact : 1 | | 102402 |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | | |
| 37-6-2226 | Elderslie Road OC1 | GDA | 56 | 345823 | 6386353 | Open site | Valid | Artefact : 5 | | |
| | **Contact** | **Recorders** | Mr.Paul Irish,Mr.Paul Irish,Mr.Joshua Connelly | | | | | **Permits** | | |
| 37-6-2789 | Wine Country Drive AS 1 | GDA | 56 | 345190 | 6384566 | Open site | Valid | Artefact : 1 | | 104464 |
| | **Contact** | **Recorders** | Niche Environment and Heritage,Ms.Clare Anderson | | | | | **Permits** | | |
| 37-6-2163 | Branxton Rail 15 | GDA | 56 | 347139 | 6384081 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | | |
| 37-6-2238 | Belford Rail 18 | GDA | 56 | 341068 | 6384478 | Open site | Valid | Artefact : 1 | | 102402 |
| | **Contact** | **Recorders** | Mr.Peter Kuskie | | | | | **Permits** | | |

**Report generated by AHIMS Web Service on 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 338265.0 - 348330.0, Northings : 6383727.0 - 6386544.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 105**

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115r

Client Service ID : 834750

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-6-2825 | Black Creek RTA 7 IF | GDA | 56 | 342612 | 6385619 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Janice Wilson | | | | | **Permits** | 3654 | |
| 37-6-2749 | Black Creek RTA9 | GDA | 56 | 342612 | 6385619 | Open site | Destroyed | Artefact : 2 | | 102402 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Janice Wilson,Mr.Kirwan William | | | | | **Permits** | 3467 | |
| 37-6-2156 | Branxton Rail 8 | GDA | 56 | 343398 | 6385115 | Open site | Destroyed | Artefact : 1 | | 102402,104464 |
| | **Contact** | **Recorders** | South East Archaeology,RPS AAP Consulting Pty Ltd - Hamilton,Mr.Ben Slack | | | | | **Permits** | | |
| 37-6-4256 | 7215_Huntlee_PAD1 | GDA | 56 | 344250 | 6384465 | Open site | Valid | Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Niche Environment and Heritage,Mr.Riley Finnerty | | | | | **Permits** | | |
| 37-6-3921 | HAF004 | GDA | 56 | 344525 | 6383769 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | RPS AAP Consulting Pty Ltd - Hamilton,Mr.Ben Slack | | | | | **Permits** | | |
| 37-6-3799 | Huntlee 50 | GDA | 56 | 345538 | 6384091 | Open site | Destroyed | Artefact : - | | 104464 |
| | **Contact** | **Recorders** | RPS AAP Consulting Pty Ltd - Hamilton,RPS AAP Consulting Pty Ltd - Hamilton,Mr.I | | | | | **Permits** | | |
| 37-6-2257 | Branxton RW 22/A | GDA | 56 | 346147 | 6385002 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | Mr.Peter Kuskie | | | | | **Permits** | | |
| 37-6-2140 | Belford Rail 7 | GDA | 56 | 339540 | 6385316 | Open site | Valid | Artefact : 1 | | 102402 |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | 3654 | |
| 37-6-2143 | Belford Rail 10 | GDA | 56 | 339671 | 6385065 | Open site | Valid | Artefact : 1 | | 102402 |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | 3286 | |
| 37-6-2748 | Black Creek RTA8/PAD/PACHD | GDA | 56 | 342355 | 6385642 | Open site | Valid | Artefact : 3, Aboriginal Resource and Gathering : -, Potential Archaeological Deposit (PAD) : - | | 102402 |
| | **Contact** | **Recorders** | Janice Wilson | | | | | **Permits** | | |
| 37-6-2745 | Black Creek RTA5IF | GDA | 56 | 342846 | 6385630 | Open site | Destroyed | Artefact : 1 | | 102402 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Janice Wilson,Mr.Kirwan William | | | | | **Permits** | 3467 | |
| 37-6-3922 | HAF003 | GDA | 56 | 344652 | 6383748 | Open site | Valid | Artefact : - | | 104464 |
| | **Contact** | **Recorders** | RPS AAP Consulting Pty Ltd - Hamilton,Mr.Ben Slack | | | | | **Permits** | | |
| 37-6-2157 | Branxton Rail 9 | GDA | 56 | 344778 | 6385357 | Open site | Valid | Artefact : 1 | | 102402 |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | | |
| 37-6-3679 | Huntlee 34 S12a | GDA | 56 | 346556 | 6383754 | Open site | Destroyed | Artefact : - | | 104464 |
| | **Contact** | **Recorders** | RPS AAP Consulting Pty Ltd - Hamilton,RPS AAP Consulting Pty Ltd - Hamilton,Mr.I | | | | | **Permits** | | |
| 37-6-1601 | Anvil Creek 27IF | AGD | 56 | 346521 | 6384350 | Open site | Valid | Artefact : 1 | | 101116,102113 |
| | **Contact** T Russell | **Recorders** | Umwelt (Australia) Pty Limited - Individual users | | | | | **Permits** | 2562 | |

**Report generated by AHIMS Web Service on 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 338265.0 - 348330.0, Northings : 6383727.0 - 6386544.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 105**

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115r

Client Service ID : 834750

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-6-1602 | PAD 21, RTA | AGD | 56 | 346711 | 6384511 | Open site | Valid | Potential Archaeological Deposit (PAD) : - | | 102113 |
| | **Contact** T Russell | **Recorders** | Umwelt (Australia) Pty Limited - Individual users | | | | | **Permits** | 2562 | |
| 37-6-2781 | Branxton AS 1 | GDA | 56 | 347699 | 6383976 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | Doctor.Diana Neuweger | | | | | **Permits** | | |
| 37-6-3726 | Whiteburn PAD | GDA | 56 | 348177 | 6383807 | Open site | Valid | Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | MCH - McCardle Cultural Heritage Pty Ltd,Ms.Penny Mccardle | | | | | **Permits** | | |
| 37-6-2148 | Belford Rail 15 | GDA | 56 | 341774 | 6384738 | Open site | Valid | Artefact : 1 | | 102402 |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | | |
| 37-6-2751 | Black Creek RTA13 | GDA | 56 | 342584 | 6385645 | Open site | Destroyed | Artefact : 1 | | 102402 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Janice Wilson,Mr.Kirwan William | | | | | **Permits** | 3467 | |
| 37-6-1314 | Anvil Creek RTA 12 IF | AGD | 56 | 345100 | 6384384 | Open site | Valid | Artefact : 1 | | 104464 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2102 | |
| 37-6-2271 | Elderslie Road PAD1 | AGD | 56 | 345300 | 6386300 | Open site | Valid | Potential Archaeological Deposit (PAD) : - | | 102402 |
| | **Contact** | **Recorders** | Mr.Paul Irish,Mr.Paul Irish | | | | | **Permits** | | |
| 37-6-3800 | Huntlee 49 | GDA | 56 | 345542 | 6384050 | Open site | Destroyed | Artefact : - | | 104464 |
| | **Contact** | **Recorders** | RPS AAP Consulting Pty Ltd - Hamilton,RPS AAP Consulting Pty Ltd - Hamilton,Mr.I | | | | | **Permits** | | |
| 37-6-2141 | Belford Rail 8 | GDA | 56 | 339710 | 6385155 | Open site | Valid | Artefact : 1 | | 102402 |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | 3286,3654 | |
| 37-6-1322 | Anvil Creek RTA 20 IF | AGD | 56 | 346377 | 6383908 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2102 | |
| 37-6-2168 | Branxton Rail Grinding Groove 1 | GDA | 56 | 347097 | 6384134 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | | |
| 37-6-2146 | Belford Rail 13 | GDA | 56 | 341009 | 6384582 | Open site | Valid | Artefact : 1 | | 102402 |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | | |
| 37-6-1339 | Black Creek RTA2 incorporating previously recorded PAD 20 (NPWS Site # 37-6-1371) | GDA | 56 | 343205 | 6385649 | Open site | Partially Destroyed | Artefact : 50 | | 101116,102113,102600 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Umwelt (Australia) Pty Limited - | | | | | **Permits** | 2096,2562,3467 | |
| 37-6-1315 | Anvil Creek RTA 13 IF | AGD | 56 | 344320 | 6384836 | Open site | Valid | Artefact : 1 | | 102402,102600,104464 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2102 | |
| 37-6-3803 | Huntlee 46 | GDA | 56 | 345518 | 6383944 | Open site | Valid | Artefact : - | | 104464 |
| | **Contact** | **Recorders** | RPS AAP Consulting Pty Ltd - Hamilton,Mr.Ben Slack | | | | | **Permits** | | |
| 37-6-2151 | Branxton Rail 3 | GDA | 56 | 342352 | 6385118 | Open site | Valid | Artefact : 1 | | 102402 |

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115r

Client Service ID : 834750

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | 3654 | |
| 37-6-2771 | RPS Standen Lane | GDA | 56 | 342438 | 6385266 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | Ms.Laraine Nelson,RPS AAP Consulting Pty Ltd - Echuca Victoria | | | | | **Permits** | | |
| 37-6-2752 | Black Creek RTA21/PAD/PACHD | GDA | 56 | 342664 | 6385716 | Open site | Valid | Potential Archaeological Deposit (PAD) : 1 | | 102402 |
| | **Contact** | **Recorders** | Janice Wilson | | | | | **Permits** | 3467 | |
| 37-6-2827 | Black Creek RTA 11 IF | GDA | 56 | 342898 | 6385613 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Janice Wilson | | | | | **Permits** | 3654 | |
| 37-6-2775 | Restriction applied. Please contact ahims@environment.nsw.gov.au. | | | | | Closed site | Valid | | | 104464 |
| | **Contact** Mr.Thomas Miller | **Recorders** | RPS AAP Consulting Pty Ltd - Hamilton,Mr.Ben Slack,Mr.Balazs Hansel | | | | | **Permits** | | |
| 37-6-2159 | Branxton Rail 11 | GDA | 56 | 344754 | 6384933 | Open site | Valid | Artefact : 1 | | 102402 |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | | |
| 37-6-2770 | Branxton WWTW 8/A | GDA | 56 | 346289 | 6384967 | Open site | Valid | Artefact : 13 | | |
| | **Contact** | **Recorders** | Mr.Peter Kuskie,South East Archaeology | | | | | **Permits** | | |
| 37-6-4208 | AS7_Huntlee | GDA | 56 | 346722 | 6384277 | Open site | Destroyed | Artefact : - | | |
| | **Contact** | **Recorders** | Niche Environment and Heritage,Niche Environment and Heritage,Miss.Kate Morri | | | | | **Permits** | | |
| 37-6-2137 | Belford Rail 4 | GDA | 56 | 338594 | 6385459 | Open site | Valid | Artefact : 1 | | 102402 |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | 3286 | |
| 37-6-2145 | Belford Rail 12 | GDA | 56 | 340784 | 6384662 | Open site | Valid | Artefact : 1 | | 102402 |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | | |
| 37-6-2747 | Black Creek RTA7 IF | GDA | 56 | 342612 | 6385619 | Open site | Valid | Artefact : 1 | | 102402 |
| | **Contact** | **Recorders** | Janice Wilson | | | | | **Permits** | 3467 | |
| 37-6-1371 | PAD20 Black Creek | AGD | 56 | 343052 | 6385455 | Open site | Valid | Potential Archaeological Deposit (PAD) : 1, Artefact : - | | 102402,102600 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2096,2562 | |
| 37-6-2161 | Branxton Rail 13 | GDA | 56 | 345344 | 6384668 | Open site | Valid | Artefact : 1 | | 102402 |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | | |
| 37-6-3804 | Huntlee 45 | GDA | 56 | 345404 | 6384317 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | RPS AAP Consulting Pty Ltd - Hamilton,Mr.Ben Slack | | | | | **Permits** | | |
| 37-6-3918 | HAF010 | GDA | 56 | 345958 | 6383841 | Open site | Valid | Artefact : - | | 104464 |
| | **Contact** | **Recorders** | RPS AAP Consulting Pty Ltd - Hamilton,Mr.Ben Slack | | | | | **Permits** | | |
| 37-6-2155 | Branxton Rail 7 | GDA | 56 | 342738 | 6385081 | Open site | Valid | Artefact : 1 | | 102402 |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | | |

**Report generated by AHIMS Web Service on 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 338265.0 - 348330.0, Northings : 6383727.0 - 6386544.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 105**

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115r

Client Service ID : 834750

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-6-2744 | Black Creek RTA4 (Incorporating #37-6-2752 Black Creek RTA21/PAD/PACHD)- | GDA | 56 | 342767 | 6385630 | Open site | Destroyed | Artefact : 1 | | 102402 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Janice Wilson,Mr.Kirwan William | | | | | **Permits** | 3467 | |
| 37-6-2152 | Branxton Rail 4 | GDA | 56 | 342834 | 6385505 | Open site | Valid | Artefact : 1 | | 102402 |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | | |
| 37-6-3923 | HAF002 | GDA | 56 | 344632 | 6383739 | Open site | Valid | Artefact : - | | 104464 |
| | **Contact** | **Recorders** | RPS AAP Consulting Pty Ltd - Hamilton,Mr.Ben Slack | | | | | **Permits** | | |
| 37-6-2158 | Branxton Rail 10 | GDA | 56 | 344673 | 6384966 | Open site | Valid | Artefact : 1 | | 102402 |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | 3658 | |
| 37-6-2258 | Branxton WWTW 2/A | GDA | 56 | 346627 | 6385197 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | Mr.Peter Kuskie | | | | | **Permits** | 3362 | |
| 37-6-2162 | Branxton Rail 14 | GDA | 56 | 346785 | 6384241 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | | |
| 37-6-1312 | Anvil Creek RTA 10 | AGD | 56 | 346876 | 6383693 | Open site | Valid | Artefact : 2 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2102 | |
| 37-6-2169 | Greta Rail 1 | GDA | 56 | 347475 | 6383835 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | | |
| 37-6-2139 | Belford Rail 6 | GDA | 56 | 339393 | 6385359 | Open site | Valid | Artefact : 1 | | 102402 |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | | |
| 37-6-2237 | Belford Rail 17 | GDA | 56 | 341006 | 6384478 | Open site | Valid | Artefact : 1 | | 102402 |
| | **Contact** | **Recorders** | Mr.Peter Kuskie | | | | | **Permits** | | |
| 37-6-2149 | Branxton Rail 1 | GDA | 56 | 342033 | 6384928 | Open site | Valid | Artefact : 1 | | 102402 |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | 3654 | |
| 37-6-2150 | Branxton Rail 2 | GDA | 56 | 342204 | 6385060 | Open site | Valid | Artefact : 1 | | 102402 |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | 3654 | |
| 37-6-3871 | Black Creek RTA13 | GDA | 56 | 342584 | 6385645 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Mr.Kirwan Williams | | | | | **Permits** | | |
| 37-6-2823 | Branxton Rail 18 | GDA | 56 | 343644 | 6385315 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | 3654 | |
| 37-6-4255 | 7215_Huntlee_AF1 | GDA | 56 | 344381 | 6383919 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Niche Environment and Heritage,Mr.Riley Finnerty | | | | | **Permits** | | |
| 37-6-3915 | HAF012 | GDA | 56 | 345309 | 6384360 | Open site | Valid | Artefact : - | | 104464 |
| | **Contact** | **Recorders** | RPS AAP Consulting Pty Ltd - Hamilton,Mr.Ben Slack | | | | | **Permits** | | |
| 37-6-1324 | Anvil Creek RTA 22 | AGD | 56 | 345784 | 6384373 | Open site | Valid | Artefact : 2 | | 102113,102402,102600 |
| | **Contact** T Russell | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2102 | |
| 37-6-2147 | Belford Rail 14 | GDA | 56 | 341296 | 6384658 | Open site | Valid | Artefact : 1 | | 102402 |

**Report generated by AHIMS Web Service on 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 338265.0 - 348330.0, Northings : 6383727.0 - 6386544.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 105**

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115r

Client Service ID : 834750

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | | |
| 37-6-2154 | Branxton Rail 6 | GDA | 56 | 342778 | 6385156 | Open site | Valid | Artefact : 1 | | 102402 |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | | |
| 37-6-3870 | Black Creek RTA12 | GDA | 56 | 343107 | 6385682 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Mr.Kirwan Williams | | | | | **Permits** | | |
| 37-6-2144 | Belford Rail 11 | GDA | 56 | 340565 | 6384588 | Open site | Valid | Artefact : 1 | | 102402 |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | | |
| 37-6-1323 | Anvil Creek RTA 21 | AGD | 56 | 346233 | 6383950 | Open site | Valid | Artefact : 2 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2102 | |
| 37-6-1720 | Red House Creek 1b/PAD | GDA | 56 | 346452 | 6385184 | Open site | Not a Site | Potential Archaeological Deposit (PAD) : - | | 100451,100543,102113 |
| | **Contact** Searle | **Recorders** | Doctor.Jodie Benton | | | | | **Permits** | | |
| 37-6-1370 | Anvil Creek RTA 29 (formerly PAD18 Anvil Creek) | AGD | 56 | 347289 | 6383607 | Open site | Valid | Potential Archaeological Deposit (PAD) : 1 | | 101116,102600 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Leila McAdam | | | | | **Permits** | 2096,2562 | |
| 37-6-2138 | Belford Rail 5 | GDA | 56 | 339249 | 6385416 | Open site | Valid | Artefact : 1 | | 102402 |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | | |

**** 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 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 338265.0 - 348330.0, Northings : 6383727.0 - 6386544.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 105**

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115q

Client Service ID : 834753

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-6-1569 | USR 6 | AGD | 56 | 334920 | 6387441 | Open site | Valid | Artefact : 11 | | 101824 |
| | **Contact** T Russell | **Recorders** | Ms.Penny Mccardle | | | | | **Permits** | | |
| 37-6-1860 | Minimbah 23/A (M23/A) | GDA | 56 | 333680 | 6387100 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | Mr.Peter Kuskie | | | | | **Permits** | 3510 | |
| 37-6-1858 | Minimbah 15/A (M15/A) | GDA | 56 | 333710 | 6386160 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | Mr.Peter Kuskie | | | | | **Permits** | 3510 | |
| 37-6-1852 | Minimbah 11/A (M11/A) | GDA | 56 | 333580 | 6386660 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | Mr.Peter Kuskie | | | | | **Permits** | 3510 | |
| 37-6-1561 | USR 8 | AGD | 56 | 334689 | 6387180 | Open site | Valid | Artefact : - | | 101824 |
| | **Contact** T Russell | **Recorders** | ERM Australia Pty Ltd- Sydney CBD | | | | | **Permits** | | |
| 37-6-2044 | KR39 | GDA | 56 | 334969 | 6386114 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Australian Museum Consulting (AM Consulting),Mrs.Tessa Boer-Mah | | | | | **Permits** | 3201 | |
| 37-6-2068 | Minibah 15/C (M15/C) | GDA | 56 | 333845 | 6386412 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | 3510 | |
| 37-6-1866 | Minimbah 57/B (M57/B) | GDA | 56 | 333920 | 6385900 | Open site | Valid | Artefact : 6 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | | |
| 37-6-3691 | NEH AFT 2 | GDA | 56 | 335537 | 6386582 | Open site | Valid | Artefact : - | | 103955,103956,103957 |
| | **Contact** | **Recorders** | Kelleher Nightingale Consulting Pty Ltd,Mr.Benjamin Anderson | | | | | **Permits** | 4326 | |
| 37-6-0627 | Belford 3; | AGD | 56 | 337770 | 6387200 | Open site | Valid | Artefact : - | Isolated Find | 2684,102056,102402,102646 |
| | **Contact** | **Recorders** | Ms.Jill Ruig | | | | | **Permits** | | |
| 37-6-2805 | Belford Rail 22 | GDA | 56 | 338067 | 6385500 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology,Mr.Stephen Free | | | | | **Permits** | | |
| 37-6-2085 | Singleton Army Base Z1/C | GDA | 56 | 334078 | 6385624 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | 3510 | |
| 37-6-1589 | USR 28 | AGD | 56 | 334925 | 6387200 | Open site | Valid | Artefact : - | | 101824 |
| | **Contact** T Russell | **Recorders** | Ms.Penny Mccardle | | | | | **Permits** | | |
| 37-6-1595 | USR 34 | AGD | 56 | 335576 | 6386904 | Open site | Valid | Artefact : 22 | | 101824 |
| | **Contact** T Russell | **Recorders** | Ms.Penny Mccardle | | | | | **Permits** | | |
| 37-6-2196 | Minimbah 11/A | GDA | 56 | 333711 | 6386844 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | | |
| 37-6-2079 | Singleton Army Base Y1/C | GDA | 56 | 333814 | 6385910 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | 3510,4435 | |
| 37-6-3914 | NBR/NEH/GH/1 | GDA | 56 | 334354 | 6386837 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Kelleher Nightingale Consulting Pty Ltd,Miss.Kristen Taylor | | | | | **Permits** | | |
| 37-6-2195 | Minimbah 9/B | GDA | 56 | 333569 | 6386931 | Open site | Valid | Artefact : 7 | | |

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115q

Client Service ID : 834753

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | | |
| 37-6-2071 | Minimbah 24/D (M24/D) | GDA | 56 | 333846 | 6387228 | Open site | Destroyed | Artefact : - | | |
| | **Contact** | **Recorders** | South East Archaeology,Mr.Matthew Kelleher,Kelleher Nightingale Consulting Pty I | | | | | **Permits** | 3510 | |
| 37-6-1599 | USR 38 | AGD | 56 | 333703 | 6387238 | Open site | Valid | Artefact : - | | 101824 |
| | **Contact** T Russell | **Recorders** | Ms.Penny Mccardle | | | | | **Permits** | 3348,3510 | |
| 37-6-3720 | NEH IF 03 | GDA | 56 | 334821 | 6386864 | Open site | Valid | Artefact : - | | 103955,103957 |
| | **Contact** | **Recorders** | Kelleher Nightingale Consulting Pty Ltd,Mr.Benjamin Anderson | | | | | **Permits** | 4326 | |
| 37-6-2072 | Minimbah 24/E (M24/E) | GDA | 56 | 333873 | 6387284 | Open site | Destroyed | Artefact : - | | |
| | **Contact** | **Recorders** | South East Archaeology,Mr.Matthew Kelleher,Kelleher Nightingale Consulting Pty I | | | | | **Permits** | 3510 | |
| 37-6-2262 | Minimbah 65/A | GDA | 56 | 334472 | 6385268 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Peter Kuskie | | | | | **Permits** | 3510 | |
| 37-6-1577 | USR 16 | AGD | 56 | 334412 | 6386997 | Open site | Valid | Artefact : 5 | | 101824,103955 |
| | **Contact** T Russell | **Recorders** | Ms.Penny Mccardle | | | | | **Permits** | | |
| 37-6-0818 | WP 6 (Bulga) | AGD | 56 | 334500 | 6386700 | Open site | Valid | Artefact : - | Open Camp Site | 4564,103955,103956,103957 |
| | **Contact** | **Recorders** | Michael Green | | | | | **Permits** | 4326 | |
| 37-6-2806 | Belford Rail 23 | GDA | 56 | 338077 | 6385700 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology,Mr.Stephen Free | | | | | **Permits** | | |
| 37-6-2083 | Singleton Army Base Z1/A | GDA | 56 | 334131 | 6385577 | Open site | Valid | Artefact : 17 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | 3510 | |
| 37-6-3875 | NEH IF 01 | GDA | 56 | 334212 | 6386838 | Open site | Valid | Artefact : - | | 103955,103957 |
| | **Contact** | **Recorders** | Kelleher Nightingale Consulting Pty Ltd,Miss.Kristen Taylor | | | | | **Permits** | 4326 | |
| 37-6-1861 | Minimbah 24/B (M24/B) | GDA | 56 | 333660 | 6387460 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | Mr.Peter Kuskie | | | | | **Permits** | | |
| 37-6-2080 | Singleton Army Base Y1/D | GDA | 56 | 333832 | 6385976 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | 3510,4435 | |
| 37-6-1606 | QR 2 | AGD | 56 | 333733 | 6386310 | Open site | Valid | Artefact : 1 | | 99843 |
| | **Contact** | **Recorders** | Ms.Penny Mccardle | | | | | **Permits** | 2383 | |
| 37-6-2086 | Single Army Base Z1/D | GDA | 56 | 334030 | 6385655 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | 3510 | |
| 37-6-2084 | Singleton Army Base Z1/B | GDA | 56 | 334101 | 6385600 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | 3510 | |
| 37-6-1850 | Minimbah 9/A (M9/A) | GDA | 56 | 333440 | 6386760 | Open site | Valid | Artefact : 5 | | |
| | **Contact** | **Recorders** | Mr.Peter Kuskie | | | | | **Permits** | 3510 | |
| 37-6-1857 | Minimbah 14/A (M14/A) | GDA | 56 | 333690 | 6386310 | Open site | Valid | Artefact : 1 | | |

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115q

Client Service ID : 834753

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| | **Contact** | **Recorders** | Mr.Peter Kuskie | | | | | **Permits** | | |
| 37-6-2081 | Singleton Army Base Y1/E | GDA | 56 | 333814 | 6385987 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | 3510 | |
| 37-6-1605 | QR 1 | AGD | 56 | 333713 | 6386422 | Open site | Valid | Artefact : 1 | | 99843 |
| | **Contact** Searle | **Recorders** | Ms.Penny Mccardle | | | | | **Permits** | 2383 | |
| 37-6-2078 | Singleton Army Base Y1/B | GDA | 56 | 333833 | 6385874 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | 3510,4435 | |
| 37-6-1600 | USR 39 | AGD | 56 | 334593 | 6386810 | Open site | Valid | Artefact : 1 | | 101824,103955 |
| | **Contact** T Russell | **Recorders** | Ms.Penny Mccardle | | | | | **Permits** | | |
| 37-6-1853 | Minimbah 11/B (M11/B) | GDA | 56 | 333560 | 6386640 | Open site | Valid | Artefact : 3 | | |
| | **Contact** | **Recorders** | Mr.Peter Kuskie | | | | | **Permits** | 3510 | |
| 37-6-1564 | USR 12 | AGD | 56 | 334610 | 6387270 | Open site | Valid | Artefact : - | | 101824 |
| | **Contact** T Russell | **Recorders** | Ms.Penny Mccardle | | | | | **Permits** | | |
| 37-6-1587 | USR 26 | AGD | 56 | 334754 | 6387094 | Open site | Valid | Artefact : 2 | | 101824 |
| | **Contact** T Russell | **Recorders** | Ms.Penny Mccardle | | | | | **Permits** | | |
| 37-6-1560 | USR 7 | AGD | 56 | 334787 | 6387264 | Open site | Valid | Artefact : 1 | | 101824 |
| | **Contact** T Russell | **Recorders** | Ms.Penny Mccardle | | | | | **Permits** | | |
| 37-6-0628 | Belford 4; | AGD | 56 | 337720 | 6386950 | Open site | Valid | Artefact : - | Isolated Find | 2684,102056,102402,102646 |
| | **Contact** | **Recorders** | Ms.Jill Ruig | | | | | **Permits** | | |
| 37-6-2136 | Belford Rail 3 | GDA | 56 | 337950 | 6385579 | Open site | Valid | Artefact : 1 | | 102402 |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | 3654 | |
| 37-6-1867 | Minimbah 59/A (M59/A) | GDA | 56 | 334150 | 6385510 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | | |
| 37-6-2047 | KR42 | GDA | 56 | 333243 | 6387509 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Australian Museum Consulting (AM Consulting),Mrs.Tessa Boer-Mah | | | | | **Permits** | 3201 | |
| 37-6-2201 | Minimbah 15/A | GDA | 56 | 333738 | 6386674 | Open site | Valid | Aboriginal Resource and Gathering : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | | |
| 37-6-2069 | Minimbah 23/B (M23/B) | GDA | 56 | 333815 | 6387158 | Open site | Destroyed | Artefact : 2 | | |
| | **Contact** | **Recorders** | South East Archaeology,Mr.Matthew Kelleher,Kelleher Nightingale Consulting Pty I | | | | | **Permits** | 3510 | |
| 37-6-1864 | Minimbah 50/A (M50/A) | GDA | 56 | 333500 | 6387650 | Open site | Valid | Artefact : 2 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | | |
| 37-6-1854 | Minimbah 11/C (M11/C) | GDA | 56 | 333530 | 6386550 | Open site | Valid | Artefact : 3 | | |
| | **Contact** | **Recorders** | Mr.Peter Kuskie | | | | | **Permits** | 3510 | |
| 37-6-2269 | Maitland to Minimbah X3 | GDA | 56 | 333525 | 6387038 | Open site | Valid | Artefact : 3 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | 3510 | |

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115q

Client Service ID : 834753

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-6-1855 | Minimbah 11/D (M11/D) | GDA | 56 | 333570 | 6386550 | Open site | Valid | Artefact : 3 | | |
| | **Contact** | **Recorders** | Mr.Peter Kuskie | | | | | **Permits** | 3510 | |
| 37-6-2046 | KR41 | GDA | 56 | 333638 | 6387259 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Australian Museum Consulting (AM Consulting),Mrs.Tessa Boer-Mah | | | | | **Permits** | 3201 | |
| 37-6-2077 | Singleton Army Base Y1/A | GDA | 56 | 333848 | 6385807 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | 3510 | |
| 37-6-1593 | USR 32 | AGD | 56 | 335348 | 6387132 | Open site | Valid | Artefact : 1 | | 101824 |
| | **Contact** T Russell | **Recorders** | Ms.Penny Mccardle | | | | | **Permits** | | |
| 37-6-1567 | USR 10 | GDA | 56 | 334501 | 6386947 | Open site | Valid | Artefact : 55 | | 101824,103955,103957 |
| | **Contact** T Russell | **Recorders** | Ms.Penny Mccardle,Kelleher Nightingale Consulting Pty Ltd,Mr.Benjamin Anderson | | | | | **Permits** | 4326 | |
| 37-6-0605 | Mitchell line | AGD | 56 | 334450 | 6385700 | Open site | Valid | Artefact : - | Open Camp Site | 2534 |
| | **Contact** | **Recorders** | Sue Effenberger | | | | | **Permits** | | |
| 37-6-2808 | Belford Rail 25 | GDA | 56 | 338100 | 6385503 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology,Mr.Stephen Free | | | | | **Permits** | | |
| 37-6-3873 | GH IF 1 | GDA | 56 | 334125 | 6386843 | Open site | Valid | Artefact : - | | 103955,103957 |
| | **Contact** | **Recorders** | Kelleher Nightingale Consulting Pty Ltd,Miss.Kristen Taylor | | | | | **Permits** | 4326 | |
| 37-6-1580 | USR 19 | AGD | 56 | 334119 | 6386961 | Open site | Valid | Artefact : 1 | | 101824,103955,103957 |
| | **Contact** T Russell | **Recorders** | Ms.Penny Mccardle | | | | | **Permits** | 4326 | |
| 37-6-2048 | KR43 | GDA | 56 | 333149 | 6387553 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Australian Museum Consulting (AM Consulting),Mrs.Tessa Boer-Mah | | | | | **Permits** | 3201 | |
| 37-6-2082 | Singleton Army Base Y/1F | GDA | 56 | 333809 | 6386138 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | 3510 | |
| 37-6-1851 | Minimbah 9/B (M9/B) | GDA | 56 | 333470 | 6386740 | Open site | Valid | Artefact : 2 | | |
| | **Contact** | **Recorders** | Mr.Peter Kuskie | | | | | **Permits** | 3510 | |
| 37-6-1856 | Minimbah 11/E (M11/E) | GDA | 56 | 333640 | 6386480 | Open site | Valid | Artefact : 3 | | |
| | **Contact** | **Recorders** | Mr.Peter Kuskie | | | | | **Permits** | 3510 | |
| 37-6-2198 | Minimbah 11/C | GDA | 56 | 333647 | 6386726 | Open site | Valid | Artefact : 7 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | | |
| 37-6-1588 | USR 27 | AGD | 56 | 334793 | 6387128 | Open site | Valid | Artefact : 2 | | 101824 |
| | **Contact** T Russell | **Recorders** | Ms.Penny Mccardle | | | | | **Permits** | | |
| 37-6-2203 | Minimbah 15/C | GDA | 56 | 333840 | 6386410 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | | |
| 37-6-1590 | USR 29 | AGD | 56 | 335069 | 6387357 | Open site | Valid | Artefact : 1 | | 101824 |
| | **Contact** T Russell | **Recorders** | Ms.Penny Mccardle | | | | | **Permits** | | |

**Report generated by AHIMS Web Service on 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 333106.0 - 338200.0, Northings : 6385200.0 - 6387730.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 89**

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115q

Client Service ID : 834753

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-6-2045 | KR40 | GDA | 56 | 334517 | 6386582 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Australian Museum Consulting (AM Consulting),Mrs.Tessa Boer-Mah | | | | | **Permits** | 3201 | |
| 37-6-1576 | USR 15 | AGD | 56 | 334422 | 6387422 | Open site | Valid | Artefact : 1 | | 101824 |
| | **Contact** T Russell | **Recorders** | Ms.Penny Mccardle | | | | | **Permits** | | |
| 37-6-2807 | Belford Rail 24 | GDA | 56 | 338115 | 6385620 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology,Mr.Stephen Free | | | | | **Permits** | | |
| 37-6-3874 | GH AFT 1 | GDA | 56 | 333956 | 6386866 | Open site | Valid | Artefact : - | | 103955,103957 |
| | **Contact** | **Recorders** | Kelleher Nightingale Consulting Pty Ltd,Kelleher Nightingale Consulting Pty Ltd,Mr | | | | | **Permits** | 4326 | |
| 37-6-2199 | Minimbah 11/D | GDA | 56 | 333672 | 6386738 | Open site | Valid | Artefact : 6 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | | |
| 37-6-2197 | Minimbah 11/B | GDA | 56 | 333675 | 6386837 | Open site | Valid | Artefact : 7 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | | |
| 37-6-2200 | Minimbah 11/E | GDA | 56 | 333738 | 6386674 | Open site | Valid | Artefact : 4 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | | |
| 37-6-1859 | Minimbah 15/B (M15/B) | GDA | 56 | 333750 | 6386230 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | Mr.Peter Kuskie | | | | | **Permits** | 3510 | |
| 37-6-2204 | Minimbah 23/A | GDA | 56 | 333780 | 6387304 | Open site | Destroyed | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology,Mr.Matthew Kelleher,Kelleher Nightingale Consulting Pty I | | | | | **Permits** | | |
| 37-6-1596 | USR 35 | GDA | 56 | 334641 | 6387050 | Open site | Valid | Artefact : 5 | | 101824,103955,103956,103957 |
| | **Contact** T Russell | **Recorders** | Ms.Penny Mccardle,Kelleher Nightingale Consulting Pty Ltd,Mr.Benjamin Anderson | | | | | **Permits** | 4326 | |
| 37-6-2194 | Minimbah 9/A | GDA | 56 | 333561 | 6386947 | Open site | Valid | Artefact : 15 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | | |
| 37-6-2073 | Minimbah 30/A (M30/A) | GDA | 56 | 333615 | 6385242 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | 3510 | |
| 37-6-2202 | Minimbah 15/B | GDA | 56 | 333858 | 6386428 | Open site | Valid | Artefact : 2 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | | |
| 37-6-1591 | USR 30 | AGD | 56 | 335143 | 6387515 | Open site | Valid | Artefact : 1 | | 101824 |
| | **Contact** T Russell | **Recorders** | Ms.Penny Mccardle | | | | | **Permits** | | |
| 37-6-1877 | WP6 (Hunter, Lower) | GDA | 56 | 334500 | 6386700 | Open site | Valid | Artefact : 38 | | 97875 |
| | **Contact** | **Recorders** | Victor Perry | | | | | **Permits** | | |
| 37-6-1876 | WP5 (Hunter, Lower) | GDA | 56 | 334500 | 6387500 | Open site | Valid | Artefact : 4 | | |
| | **Contact** | **Recorders** | Victor Perry | | | | | **Permits** | | |
| 37-6-0817 | WP 5 (Bulga) | AGD | 56 | 334500 | 6387500 | Open site | Valid | Artefact : - | Open Camp Site | 4564 |
| | **Contact** | **Recorders** | Michael Green | | | | | **Permits** | 1005 | |

**Report generated by AHIMS Web Service on 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 333106.0 - 338200.0, Northings : 6385200.0 - 6387730.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 89**

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115q

Client Service ID : 834753

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-6-1594 | USR 33 | GDA | 56 | 334622 | 6386999 | Open site | Valid | Artefact : - | | 101824,103955,103956,103957 |
| | **Contact** T Russell | **Recorders** | Ms.Penny Mccardle,Kelleher Nightingale Consulting Pty Ltd,Mr.Benjamin Anderson | | | | | **Permits** | 4326 | |
| 37-6-2804 | Belford Rail 21 | GDA | 56 | 338149 | 6385619 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology,Mr.Stephen Free | | | | | **Permits** | | |
| 37-6-1865 | Minimbah 57/A (M57/A) | GDA | 56 | 333970 | 6385840 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | South East Archaeology | | | | | **Permits** | | |

**** 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 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 333106.0 - 338200.0, Northings : 6385200.0 - 6387730.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 89**

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115p

Client Service ID : 834766

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-6-0843 | MLR1 | AGD | 56 | 326270 | 6386890 | Open site | Valid | Artefact : - | Open Camp Site | |
| Contact | Recorders | Charles Dearling Archaeological and Cultural Heritage Consultants | | | | | | Permits | | |
| 37-6-0841 | MLR2 | AGD | 56 | 326320 | 6386890 | Open site | Valid | Artefact : - | Open Camp Site | |
| Contact | Recorders | Charles Dearling Archaeological and Cultural Heritage Consultants | | | | | | Permits | | |
| 37-6-0842 | MLR4 | AGD | 56 | 326420 | 6387030 | Open site | Valid | Artefact : - | Open Camp Site | |
| Contact | Recorders | Charles Dearling Archaeological and Cultural Heritage Consultants | | | | | | Permits | | |
| 37-6-0845 | MLR7 | AGD | 56 | 326680 | 6386870 | Open site | Valid | Artefact : - | Open Camp Site | |
| Contact | Recorders | Charles Dearling Archaeological and Cultural Heritage Consultants | | | | | | Permits | | |
| 37-6-2051 | KR46 | GDA | 56 | 330811 | 6389436 | Open site | Valid | Artefact : - | | |
| Contact | Recorders | Australian Museum Consulting (AM Consulting),Mrs.Tessa Boer-Mah | | | | | | Permits | 3201 | |
| 37-6-1904 | Short 3 (Bulga) | GDA | 56 | 323700 | 6388000 | Open site | Valid | Artefact : - | | 2986 |
| Contact | Recorders | Iain Stuart | | | | | | Permits | | |
| 37-6-2055 | KR50 | GDA | 56 | 324439 | 6388573 | Open site | Valid | Artefact : - | | |
| Contact | Recorders | Australian Museum Consulting (AM Consulting),Mrs.Tessa Boer-Mah | | | | | | Permits | 3201 | |
| 37-6-3966 | Mudies Creek Potential Archaeological Deposit | GDA | 56 | 331930 | 6387247 | Open site | Valid | Potential Archaeological Deposit (PAD) : -, Artefact : - | | |
| Contact | Recorders | Mr.Chris Langeluddecke,Mr.Chris Langeluddecke,AMBS Ecology & Heritage,AMBS I | | | | | | Permits | 5053 | |
| 37-6-2049 | KR44 | GDA | 56 | 332773 | 6387777 | Open site | Valid | Artefact : - | | |
| Contact | Recorders | Australian Museum Consulting (AM Consulting),Mrs.Tessa Boer-Mah | | | | | | Permits | 3201 | |
| 37-6-0806 | MLR13 | AGD | 56 | 326580 | 6387510 | Open site | Valid | Artefact : - | Open Camp Site | |
| Contact | Recorders | ASRSYS | | | | | | Permits | | |
| 37-6-0844 | MLR6 | AGD | 56 | 326670 | 6386990 | Open site | Valid | Artefact : - | Isolated Find | |
| Contact | Recorders | Charles Dearling Archaeological and Cultural Heritage Consultants | | | | | | Permits | | |
| 37-6-2054 | KR49 | GDA | 56 | 325534 | 6389414 | Open site | Valid | Artefact : - | | |
| Contact | Recorders | Australian Museum Consulting (AM Consulting),Mrs.Tessa Boer-Mah | | | | | | Permits | 3201 | |
| 37-6-1908 | BP-5 | GDA | 56 | 324475 | 6389391 | Open site | Valid | Artefact : - | | 4742 |
| Contact | Recorders | Victor Perry | | | | | | Permits | | |
| 37-6-3576 | Loders Creek Open Site 1 (Loders Creek OS-1) | GDA | 56 | 323483 | 6387260 | Open site | Destroyed | Artefact : - | | |
| Contact | Recorders | OzArk Environmental and Heritage Management - Dubbo,Miss.Stephanie Rusden | | | | | | Permits | 4008 | |
| 37-6-2076 | LC OS-1 | GDA | 56 | 323843 | 6387230 | Open site | Destroyed | Potential Archaeological Deposit (PAD) : 1, Artefact : - | | |
| Contact | Recorders | OzArk Environmental and Heritage Management - Dubbo,Ms.Gillian Goode,Mr.Ben | | | | | | Permits | | |
| 37-6-2721 | Mt Thorley Isolated Find 1 | GDA | 56 | 323943 | 6388274 | Open site | Valid | Artefact : 1 | | 102333 |
| Contact | Recorders | OzArk Environmental and Heritage Management - Dubbo,Mr.Benjamin Streat,Strea | | | | | | Permits | | |

**Report generated by AHIMS Web Service on 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 323006.0 - 332900.0, Northings : 6386900.0 - 6389746.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 37**

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115p

Client Service ID : 834766

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-6-0933 | MLR 3 | AGD | 56 | 326240 | 6387100 | Open site | Valid | Artefact : - | Isolated Find | |
| **Contact** | **Recorders** | Charles Dearling Archaeological and Cultural Heritage Consultants | | | | | | **Permits** | | |
| 37-6-0838 | MLR 10 | AGD | 56 | 326340 | 6387440 | Open site | Valid | Artefact : - | Open Camp Site | |
| **Contact** | **Recorders** | Charles Dearling Archaeological and Cultural Heritage Consultants | | | | | | **Permits** | | |
| 37-6-0836 | MLR12 | AGD | 56 | 326450 | 6387320 | Open site | Valid | Artefact : - | Open Camp Site | |
| **Contact** | **Recorders** | Charles Dearling Archaeological and Cultural Heritage Consultants | | | | | | **Permits** | | |
| 37-6-4249 | Mudies Creek Artefact 02 | GDA | 56 | 332214 | 6387203 | Open site | Valid | Artefact : - | | |
| **Contact** | **Recorders** | Mr.Chris Langeluddecke,AMBS Ecology & Heritage | | | | | | **Permits** | 5053 | |
| 37-6-2268 | Maitland to Minimbah X2 | GDA | 56 | 332700 | 6389745 | Open site | Valid | Artefact : 1 | | |
| **Contact** | **Recorders** | South East Archaeology | | | | | | **Permits** | 3510 | |
| 37-6-2848 | BOP-SC4 | GDA | 56 | 324141 | 6387521 | Open site | Destroyed | Artefact : 1 | | |
| **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Ben Churcher,Mr.Ben | | | | | | **Permits** | | |
| 37-6-3577 | Loders Creek Open Site 2 (Loders Creek OS-2) | GDA | 56 | 323790 | 6388845 | Open site | Valid | Artefact : - | | |
| **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Miss.Stephanie Rusden | | | | | | **Permits** | | |
| 33-6-0036 | B - HED IF 3 | GDA | 56 | 324815 | 6387225 | Open site | Valid | Artefact : - | | |
| **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Ben Churcher,Mrs.Jan | | | | | | **Permits** | | |
| 37-6-2722 | Mt Thorley Open Scatter 1 | GDA | 56 | 323936 | 6388313 | Open site | Valid | Artefact : 1 | | 102333 |
| **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Benjamin Streat,Strea | | | | | | **Permits** | | |
| 37-6-0840 | MLR5 | AGD | 56 | 326460 | 6387030 | Open site | Valid | Artefact : - | Open Camp Site | |
| **Contact** | **Recorders** | Charles Dearling Archaeological and Cultural Heritage Consultants | | | | | | **Permits** | | |
| 37-6-0839 | MLR 9 | AGD | 56 | 326480 | 6386820 | Open site | Valid | Artefact : - | Open Camp Site | |
| **Contact** | **Recorders** | Charles Dearling Archaeological and Cultural Heritage Consultants | | | | | | **Permits** | | |
| 37-6-2723 | Mt Thorley Open Scatter 2 | GDA | 56 | 323302 | 6387446 | Open site | Valid | Artefact : - | | 102333 |
| **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Benjamin Streat,Strea | | | | | | **Permits** | | |
| 37-6-2056 | KR51 | GDA | 56 | 323916 | 6388438 | Open site | Valid | Artefact : - | | |
| **Contact** | **Recorders** | Australian Museum Consulting (AM Consulting),Mrs.Tessa Boer-Mah | | | | | | **Permits** | 3201 | |
| 37-6-2833 | BOP - IF6 | GDA | 56 | 324532 | 6386973 | Open site | Destroyed | Artefact : 1 | | |
| **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Ben Churcher,Mr.Ben | | | | | | **Permits** | | |
| 33-6-0033 | B-HED AS 2 | GDA | 56 | 324965 | 6387444 | Open site | Valid | Artefact : - | | |
| **Contact** | **Recorders** | Mrs.Janene May | | | | | | **Permits** | | |
| 37-6-0837 | MLR 11 | AGD | 56 | 326330 | 6387320 | Open site | Valid | Artefact : - | Open Camp Site | |
| **Contact** | **Recorders** | Charles Dearling Archaeological and Cultural Heritage Consultants | | | | | | **Permits** | | |
| 37-6-3399 | LCGGRA OS-1 | GDA | 56 | 323837 | 6387193 | Open site | Partially Destroyed | Artefact : 1 | | |
| **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,OzArk Environmental an | | | | | | **Permits** | 4008,4011 | |
| 37-6-0980 | BP5 | AGD | 56 | 324475 | 6389391 | Open site | Valid | Artefact : - | | 97831 |
| **Contact** | **Recorders** | Victor Perry | | | | | | **Permits** | | |

**Report generated by AHIMS Web Service on 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 323006.0 - 332900.0, Northings : 6386900.0 - 6389746.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 37**

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115p

Client Service ID : 834766

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-6-3835 | Mudies Creek Artefact 01 | GDA | 56 | 331500 | 6387320 | Open site | Valid | Artefact : - | | 104402 |
| | **Contact** | **Recorders** | Mr.Chris Langeluddecke,Mr.Chris Langeluddecke,Mr.Chris Langeluddecke,AMBS Ec | | | | | **Permits** | 4362,5053 | |
| 37-6-2050 | KR45 | GDA | 56 | 331184 | 6388908 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Australian Museum Consulting (AM Consulting),Mrs.Tessa Boer-Mah | | | | | **Permits** | 3201 | |
| 37-6-2057 | KR52 | GDA | 56 | 323759 | 6388437 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Australian Museum Consulting (AM Consulting),Mrs.Tessa Boer-Mah | | | | | **Permits** | 3201 | |

**** 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 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 323006.0 - 332900.0, Northings : 6386900.0 - 6389746.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 37**

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115o

Client Service ID : 834777

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-6-0170 | Mt Thorley; | AGD | 56 | 321955 | 6389167 | Open site | Valid | Artefact : - | Open Camp Site | |
| | **Contact** | **Recorders** | ASRSYS | | | | | **Permits** | | |
| 37-6-3078 | MTW-502 | GDA | 56 | 321983 | 6390578 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-1436 | JP9 | AGD | 56 | 322166 | 6389910 | Open site | Valid | Artefact : - | | |
| | **Contact** T Russell | **Recorders** | Mr.Peter Kuskie | | | | | **Permits** | 2085 | |
| 37-6-1434 | JP5 | AGD | 56 | 322641 | 6389041 | Open site | Valid | Artefact : - | | |
| | **Contact** T Russell | **Recorders** | Mr.Peter Kuskie | | | | | **Permits** | 2085 | |
| 37-6-0550 | Warkworth Mine 3; | AGD | 56 | 320900 | 6388900 | Open site | Valid | Artefact : - | Open Camp Site | 2159 |
| | **Contact** | **Recorders** | Elizabeth Rich,Alice Gorman | | | | | **Permits** | | |
| 37-6-3077 | MTW-503 | GDA | 56 | 322141 | 6390369 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-0667 | F16 & F17 | AGD | 56 | 320570 | 6388550 | Open site | Valid | Artefact : - | Open Camp Site | 2159 |
| | **Contact** | **Recorders** | Haglund and Associates,Ms.Laila Haglund | | | | | **Permits** | 736 | |
| 37-6-0159 | Mt Thorley;Mt Thorley I; | AGD | 56 | 321486 | 6389798 | Open site | Destroyed | Artefact : - | Open Camp Site | 302,1676,2071, 98452 |
| | **Contact** | **Recorders** | Len Dyall | | | | | **Permits** | 397 | |
| 37-6-1439 | JP 12 | AGD | 56 | 321667 | 6390510 | Open site | Valid | Artefact : - | | |
| | **Contact** T Russell | **Recorders** | Mr.Peter Kuskie | | | | | **Permits** | 2085 | |
| 37-6-0155 | Mt Thorley;Warkworth Mine 4; | AGD | 56 | 320820 | 6389900 | Open site | Destroyed | Artefact : - | Open Camp Site | 302,1676,2071, 2159,2728,400 0 |
| | **Contact** | **Recorders** | Len Dyall | | | | | **Permits** | 440,538,708 | |
| 37-6-3076 | MTW - 504 | GDA | 56 | 322075 | 6390443 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-0165 | Mt Thorley;Mt Thorley O; | AGD | 56 | 320555 | 6390695 | Open site | Destroyed | Artefact : - | Open Camp Site | 302,1676,2071, 98452 |
| | **Contact** | **Recorders** | Len Dyall | | | | | **Permits** | 397 | |
| 37-6-2062 | KR57 | GDA | 56 | 321763 | 6389650 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Australian Museum Consulting (AM Consulting),Mrs.Tessa Boer-Mah | | | | | **Permits** | 3201 | |
| 37-6-0020 | Mt Thorley; | AGD | 56 | 321936 | 6390173 | Open site | Valid | Artefact : - | Open Camp Site | 104590 |
| | **Contact** | **Recorders** | ASRSYS | | | | | **Permits** | 2085 | |
| 37-6-1435 | JP8 | AGD | 56 | 322305 | 6389489 | Open site | Valid | Artefact : - | | |
| | **Contact** T Russell | **Recorders** | Mr.Peter Kuskie | | | | | **Permits** | 2085 | |
| 37-6-0689 | MTCL1; | AGD | 56 | 322250 | 6388900 | Open site | Valid | Artefact : - | Open Camp Site | 3071,3822 |
| | **Contact** | **Recorders** | Mrs.Robynne Mills | | | | | **Permits** | | |
| 37-6-0688 | Mount Thorley Coal Loader; | AGD | 56 | 322260 | 6388900 | Open site | Valid | Artefact : - | Open Camp Site | 3071 |
| | **Contact** | **Recorders** | Mrs.Robynne Mills | | | | | **Permits** | | |

**Report generated by AHIMS Web Service on 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 320428.0 - 322900.0, Northings : 6388400.0 - 6390891.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 22**

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115o

Client Service ID : 834777

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-6-0668 | F18 | AGD | 56 | 320570 | 6388700 | Open site | Valid | Artefact : - | Open Camp Site | 2159 |
| | **Contact** | **Recorders** | Haglund and Associates,Ms.Laila Haglund | | | | | **Permits** | 736,1060 | |
| 37-6-2061 | KR56 | GDA | 56 | 321678 | 6388471 | Open site | Destroyed | Artefact : - | | |
| | **Contact** | **Recorders** | Australian Museum Consulting (AM Consulting),Mr.Joel Deacon,Arrow Heritage Sol | | | | | **Permits** | 3201 | |
| 37-6-0666 | F5-15 | AGD | 56 | 321400 | 6388900 | Open site | Valid | Artefact : - | Open Camp Site | 2159 |
| | **Contact** | **Recorders** | Haglund and Associates,Ms.Laila Haglund | | | | | **Permits** | 736 | |
| 37-6-0687 | MTCL2; | AGD | 56 | 322260 | 6388900 | Open site | Valid | Artefact : - | Open Camp Site | 3071,3822 |
| | **Contact** | **Recorders** | Mrs.Robynne Mills | | | | | **Permits** | | |
| 37-6-0164 | Mt Thorley;Mt Thorley N; | AGD | 56 | 320572 | 6389781 | Open site | Destroyed | Artefact : - | Open Camp Site | 302,1676,2071, 98452 |
| | **Contact** | **Recorders** | Len Dyall | | | | | **Permits** | 397 | |

**** 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 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 320428.0 - 322900.0, Northings : 6388400.0 - 6390891.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 22**

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115n

Client Service ID : 834782

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-6-3132 | MTW-438 | GDA | 56 | 321509 | 6392690 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3139 | MTW-431 | GDA | 56 | 321535 | 6392663 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3143 | MTW-427 | GDA | 56 | 321583 | 6392830 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3123 | MTW-446 | GDA | 56 | 321708 | 6392612 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3117 | MTW-453 | GDA | 56 | 321638 | 6392542 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3094 | MTW-486 | GDA | 56 | 321641 | 6392392 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3092 | MTW-488 | GDA | 56 | 321658 | 6392382 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3095 | MTW-485 | GDA | 56 | 321376 | 6392257 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3150 | MTW-419 | GDA | 56 | 321475 | 6392859 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3158 | MTW-479 | GDA | 56 | 321034 | 6392363 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3135 | MTW-435 | GDA | 56 | 321510 | 6392766 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |

**Report generated by AHIMS Web Service on 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 319671.0 - 322215.0, Northings : 6390927.0 - 6393300.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 95**

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115n

Client Service ID : 834782

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-6-3137 | MTW-433 | GDA | 56 | 321512 | 6392748 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3086 | MTW-494 | GDA | 56 | 321526 | 6392253 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3155 | MTW-414 | GDA | 56 | 321563 | 6392784 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3102 | MTW-468 | GDA | 56 | 320832 | 6392574 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-0682 | Wark-2 | AGD | 56 | 321100 | 6391000 | Open site | Valid | Artefact : - | Isolated Find | 3232 |
| | **Contact** | **Recorders** | Iain Stuart | | | | | **Permits** | | |
| 37-6-3116 | MTW-454 | GDA | 56 | 321611 | 6392579 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3108 | MTW-462 | GDA | 56 | 321639 | 6392464 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3093 | MTW-487 | GDA | 56 | 321655 | 6392355 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3099 | MTW-472 | GDA | 56 | 321497 | 6392577 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3104 | MTW-466 | GDA | 56 | 321593 | 6392608 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3131 | MTW-439 | GDA | 56 | 321823 | 6392639 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |

**Report generated by AHIMS Web Service on 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 319671.0 - 322215.0, Northings : 6390927.0 - 6393300.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 95**

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115n

Client Service ID : 834782

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-6-3126 | MTW-443 | GDA | 56 | 321831 | 6392608 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3125 | MTW-444 | GDA | 56 | 321847 | 6392594 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3096 | MTW-484 | GDA | 56 | 321310 | 6392210 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-2063 | KR58 | GDA | 56 | 320539 | 6392677 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Australian Museum Consulting (AM Consulting),Mrs.Tessa Boer-Mah | | | | | **Permits** | 3201 | |
| 37-6-3153 | MTW-416 | GDA | 56 | 321504 | 6392767 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3140 | MTW-430 | GDA | 56 | 321560 | 6392788 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3144 | MTW-426 | GDA | 56 | 321568 | 6392869 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3120 | MTW-450 | GDA | 56 | 321573 | 6392669 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3085 | MTW-495 | GDA | 56 | 321591 | 6392173 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3142 | MTW-428 | GDA | 56 | 321585 | 6392810 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3110 | MTW-460 | GDA | 56 | 321740 | 6392586 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3164 | MTW-482 | GDA | 56 | 320885 | 6392393 | Open site | Valid | Artefact : - | | |

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| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3121 | MTW-449 | GDA | 56 | 321622 | 6392657 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3118 | MTW-452 | GDA | 56 | 321633 | 6392540 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3107 | MTW-463 | GDA | 56 | 321639 | 6392485 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3146 | MTW-423 | GDA | 56 | 321400 | 6392892 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3151 | MTW-418 | GDA | 56 | 321459 | 6392800 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-1438 | JP 17 | AGD | 56 | 320364 | 6392801 | Open site | Valid | Artefact : - | | |
| | **Contact** T Russell | **Recorders** | Mr.Peter Kuskie | | | | | **Permits** | 2085 | |
| 37-6-3082 | MTW-498 | GDA | 56 | 321516 | 6391545 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3141 | MTW-429 | GDA | 56 | 321567 | 6392805 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-1437 | JP 16 | AGD | 56 | 320690 | 6392369 | Open site | Valid | Artefact : - | | |
| | **Contact** T Russell | **Recorders** | Mr.Peter Kuskie | | | | | **Permits** | 2085 | |
| 37-6-3165 | MTW-471 | GDA | 56 | 321212 | 6392573 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3109 | MTW-461 | GDA | 56 | 321640 | 6392480 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3079 | MTW-501 | GDA | 56 | 322077 | 6392070 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3133 | MTW-437 | GDA | 56 | 321346 | 6392712 | Open site | Valid | Artefact : - | | |

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| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3080 | MTW-500 | GDA | 56 | 321423 | 6391463 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3149 | MTW-420 | GDA | 56 | 321415 | 6392904 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3166 | MTW-424 | GDA | 56 | 321416 | 6393005 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3136 | MTW-434 | GDA | 56 | 321511 | 6392760 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3154 | MTW-415 | GDA | 56 | 321519 | 6392765 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-0677 | Wark-1 | AGD | 56 | 321500 | 6390800 | Open site | Valid | Artefact : - | Open Camp Site | 3232,104590 |
| | Contact | Recorders | Iain Stuart | | | | | Permits | 2085 | |
| 37-6-3105 | MTW-465 | GDA | 56 | 321666 | 6392526 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3130 | MTW-440 | GDA | 56 | 321829 | 6392629 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3119 | MTW-451 | GDA | 56 | 321629 | 6392534 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3106 | MTW-464 | GDA | 56 | 321647 | 6392522 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3115 | MTW-455 | GDA | 56 | 321656 | 6392619 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3103 | MTW-467 | GDA | 56 | 320959 | 6392440 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115n

Client Service ID : 834782

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-6-3148 | MTW-421 | GDA | 56 | 321399 | 6392941 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3081 | MTW-499 | GDA | 56 | 321452 | 6391404 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3145 | MTW-425 | GDA | 56 | 321442 | 6392988 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3157 | MTW-480 | GDA | 56 | 321023 | 6392371 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3084 | MTW-496 | GDA | 56 | 321574 | 6392177 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3088 | MTW-492 | GDA | 56 | 321595 | 6392330 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3091 | MTW-489 | GDA | 56 | 321674 | 6392371 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3113 | MTW-457 | GDA | 56 | 321672 | 6392562 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3127 | MTW-447 | GDA | 56 | 321707 | 6392648 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-1440 | JP 18 | AGD | 56 | 320319 | 6392989 | Open site | Valid | Artefact : - | | |
| | **Contact** T Russell | **Recorders** | Mr.Peter Kuskie | | | | | **Permits** | | |
| 37-6-3124 | MTW-445 | GDA | 56 | 321856 | 6392562 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |

**Report generated by AHIMS Web Service on 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 319671.0 - 322215.0, Northings : 6390927.0 - 6393300.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 95**

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115n

Client Service ID : 834782

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-6-3161 | MTW-476 | GDA | 56 | 321085 | 6392394 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3162 | MTW-475 | GDA | 56 | 321102 | 6392378 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3163 | MTW-474 | GDA | 56 | 321110 | 6392372 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3098 | MTW-473 | GDA | 56 | 321188 | 6392307 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3090 | MTW-490 | GDA | 56 | 321619 | 6392297 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3122 | MTW-448 | GDA | 56 | 321630 | 6392653 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3114 | MTW-456 | GDA | 56 | 321647 | 6392544 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3101 | MTW-469 | GDA | 56 | 320950 | 6392581 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3147 | MTW-422 | GDA | 56 | 321397 | 6392933 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3156 | MTW-481 | GDA | 56 | 321027 | 6392401 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3159 | MTW-478 | GDA | 56 | 321051 | 6392374 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3100 | MTW-470 | GDA | 56 | 321062 | 6392544 | Open site | Valid | Artefact : - | | |

**Report generated by AHIMS Web Service on 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 319671.0 - 322215.0, Northings : 6390927.0 - 6393300.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 95**

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| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3152 | MTW-417 | GDA | 56 | 321503 | 6392805 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3138 | MTW-432 | GDA | 56 | 321518 | 6392715 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3089 | MTW-491 | GDA | 56 | 321608 | 6392323 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3112 | MTW-458 | GDA | 56 | 321684 | 6392558 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-1441 | JP 19 | AGD | 56 | 319871 | 6393068 | Open site | Valid | Artefact : - | | |
| | **Contact** T Russell | **Recorders** | Mr.Peter Kuskie | | | | | **Permits** | 2085 | |
| 37-6-3129 | MTW-441 | GDA | 56 | 321838 | 6392623 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3128 | MTW-442 | GDA | 56 | 321847 | 6392610 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3111 | MTW-459 | GDA | 56 | 321892 | 6392473 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3160 | MTW-477 | GDA | 56 | 321083 | 6392373 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3087 | MTW-493 | GDA | 56 | 321638 | 6392356 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-2064 | KR59 | GDA | 56 | 320967 | 6392352 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Australian Museum Consulting (AM Consulting),Mrs.Tessa Boer-Mah | | | | | **Permits** | 3201 | |

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115n

Client Service ID : 834782

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-6-3134 | MTW-436 | GDA | 56 | 321443 | 6392829 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3083 | MTW-497 | GDA | 56 | 321479 | 6391847 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |

**** 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 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 319671.0 - 322215.0, Northings : 6390927.0 - 6393300.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 95**

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115m

Client Service ID : 834789

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-6-0615 | Long Point Rd_2; | AGD | 56 | 318850 | 6393800 | Open site | Valid | Artefact : - | Open Camp Site | 2570 |
| | **Contact** | **Recorders** | Sue Effenberger | | | | | **Permits** | | |
| 37-6-4022 | 2010-HVOSE-14 | GDA | 56 | 319139 | 6394321 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Joel Deacon,Arrow Heritage Solutions | | | | | **Permits** | | |
| 37-6-4058 | HVO-1550 | GDA | 56 | 318799 | 6394010 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Joel Deacon,Mr.Joel Deacon,Arrow Heritage Solutions,Arrow Heritage Solutions | | | | | **Permits** | | |
| 37-6-4038 | 2010-HVOSE-16 | GDA | 56 | 319051 | 6394575 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Joel Deacon,Arrow Heritage Solutions | | | | | **Permits** | | |
| 37-6-4071 | HVO-1425 | GDA | 56 | 318951 | 6394898 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Joel Deacon,Arrow Heritage Solutions | | | | | **Permits** | | |
| 37-6-4037 | 2010-HVOSE-10 | GDA | 56 | 319379 | 6394580 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Joel Deacon,Arrow Heritage Solutions | | | | | **Permits** | | |
| 37-6-2067 | KR62 | GDA | 56 | 319252 | 6394069 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Australian Museum Consulting (AM Consulting),Mrs.Tessa Boer-Mah | | | | | **Permits** | 3201,4011 | |
| 37-6-4033 | 2010-HVOSE-02 | GDA | 56 | 319232 | 6395243 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Joel Deacon,Arrow Heritage Solutions | | | | | **Permits** | | |
| 37-6-4078 | HVO-1630 | GDA | 56 | 319248 | 6395033 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Joel Deacon,Arrow Heritage Solutions | | | | | **Permits** | | |
| 37-6-4079 | HVO-1631 | GDA | 56 | 319311 | 6395096 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Joel Deacon,Arrow Heritage Solutions | | | | | **Permits** | | |
| 37-6-0618 | Long Point Rd 1a; | AGD | 56 | 318650 | 6393700 | Open site | Valid | Artefact : - | Open Camp Site | 2570 |
| | **Contact** | **Recorders** | Sue Effenberger | | | | | **Permits** | | |
| 37-6-4056 | HVO-1478 | GDA | 56 | 319449 | 6394310 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Joel Deacon,Arrow Heritage Solutions | | | | | **Permits** | | |
| 37-6-4075 | HVO-1520 | GDA | 56 | 319470 | 6394826 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Joel Deacon,Arrow Heritage Solutions | | | | | **Permits** | | |
| 37-6-0792 | RPS3;see 37-6-614;& 37-6-616; | AGD | 56 | 318930 | 6393750 | Open site | Valid | Artefact : - | Open Camp Site | |
| | **Contact** | **Recorders** | Ms.Elizabeth White | | | | | **Permits** | 888 | |
| 37-6-0616 | ISF1-LPR; | AGD | 56 | 319000 | 6393700 | Open site | Valid | Artefact : - | Isolated Find | 2570 |
| | **Contact** | **Recorders** | Sue Effenberger | | | | | **Permits** | 542 | |
| 37-6-4084 | 2010-HVOSE-21 | GDA | 56 | 319188 | 6394831 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Joel Deacon,Arrow Heritage Solutions | | | | | **Permits** | | |
| 37-6-0613 | Long Point Rd 1b | GDA | 56 | 318855 | 6393889 | Open site | Valid | Artefact : - | Open Camp Site | 2570 |
| | **Contact** | **Recorders** | Sue Effenberger,Mr.Joel Deacon,Arrow Heritage Solutions | | | | | **Permits** | 542 | |
| 37-6-4050 | HVO-1449 | GDA | 56 | 319184 | 6394614 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Joel Deacon,Arrow Heritage Solutions | | | | | **Permits** | | |

**Report generated by AHIMS Web Service on 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 318599.0 - 319600.0, Northings : 6392900.0 - 6395376.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 49**

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115m

Client Service ID : 834789

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-6-0623 | ISF 2;lemington Mine Lease; | AGD | 56 | 318550 | 6393650 | Open site | Valid | Artefact : - | Isolated Find | 2694 |
| | **Contact** | **Recorders** | Sue Effenberger | | | | | **Permits** | | |
| 37-6-4055 | HVO-1493 | GDA | 56 | 319569 | 6394333 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Joel Deacon,Arrow Heritage Solutions | | | | | **Permits** | | |
| 37-5-0179 | NW 1; | AGD | 56 | 318720 | 6395100 | Open site | Valid | Artefact : - | Open Camp Site | 1971,1972 |
| | **Contact** | **Recorders** | Elizabeth Rich | | | | | **Permits** | | |
| 37-6-4045 | HVO-1421 | GDA | 56 | 318850 | 6395298 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Joel Deacon,Arrow Heritage Solutions | | | | | **Permits** | | |
| 37-6-0791 | RPS2 | GDA | 56 | 318954 | 6393601 | Open site | Destroyed | Artefact : - | Open Camp Site | |
| | **Contact** | **Recorders** | Ms.Elizabeth White,Mr.Joel Deacon,Arrow Heritage Solutions | | | | | **Permits** | 888 | |
| 37-6-0790 | RPS1; | AGD | 56 | 318880 | 6393250 | Open site | Valid | Artefact : - | Open Camp Site | 104590 |
| | **Contact** | **Recorders** | Ms.Elizabeth White | | | | | **Permits** | 2085 | |
| 37-6-4081 | 2010-HVOSE-24 | GDA | 56 | 319176 | 6394668 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Joel Deacon,Arrow Heritage Solutions | | | | | **Permits** | | |
| 37-6-4020 | 2010-HVOSE-12 | GDA | 56 | 319218 | 6394230 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Joel Deacon,Arrow Heritage Solutions | | | | | **Permits** | | |
| 37-6-2065 | KR60 | GDA | 56 | 319358 | 6393397 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Australian Museum Consulting (AM Consulting),Mrs.Tessa Boer-Mah | | | | | **Permits** | 3201 | |
| 37-6-2066 | KR61 | GDA | 56 | 319357 | 6393785 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Australian Museum Consulting (AM Consulting),Mrs.Tessa Boer-Mah | | | | | **Permits** | 3201 | |
| 37-6-1444 | JP 23 | AGD | 56 | 318608 | 6393255 | Open site | Valid | Artefact : - | | |
| | **Contact** T Russell | **Recorders** | Mr.Peter Kuskie | | | | | **Permits** | 2085 | |
| 37-6-4025 | 2010-HVOSE-19 | GDA | 56 | 318737 | 6393880 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Joel Deacon,Arrow Heritage Solutions | | | | | **Permits** | | |
| 37-6-0793 | RSP4; | AGD | 56 | 318700 | 6393500 | Open site | Valid | Artefact : - | Open Camp Site | |
| | **Contact** | **Recorders** | Ms.Elizabeth White | | | | | **Permits** | 888 | |
| 37-6-4059 | HVO-1468 | GDA | 56 | 319051 | 6394067 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Joel Deacon,Arrow Heritage Solutions | | | | | **Permits** | | |
| 37-6-1442 | JP 21 | AGD | 56 | 319323 | 6393171 | Open site | Valid | Artefact : - | | |
| | **Contact** T Russell | **Recorders** | Mr.Peter Kuskie | | | | | **Permits** | 2085 | |
| 37-6-4082 | 2010-HVOSE-23 | GDA | 56 | 319590 | 6394888 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Joel Deacon,Arrow Heritage Solutions | | | | | **Permits** | | |
| 37-6-0614 | Isf2-Lpr; | AGD | 56 | 319000 | 6393700 | Open site | Valid | Artefact : - | Isolated Find | 2570 |
| | **Contact** | **Recorders** | Sue Effenberger | | | | | **Permits** | 542 | |
| 37-6-4057 | HVO-1477 | GDA | 56 | 319403 | 6394238 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Joel Deacon,Arrow Heritage Solutions | | | | | **Permits** | | |

**Report generated by AHIMS Web Service on 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 318599.0 - 319600.0, Northings : 6392900.0 - 6395376.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 49**

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115m

Client Service ID : 834789

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-6-4026 | 2010-HVOSE-20 | GDA | 56 | 318655 | 6393871 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Joel Deacon,Arrow Heritage Solutions | | | | | **Permits** | | |
| 37-6-4034 | 2010-HVOSE-03 | GDA | 56 | 319471 | 6395301 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Joel Deacon,Arrow Heritage Solutions | | | | | **Permits** | | |
| 37-6-4073 | HVO-1422 | GDA | 56 | 318881 | 6395093 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Joel Deacon,Arrow Heritage Solutions | | | | | **Permits** | | |
| 37-6-4039 | 2010-HVOSE-17 | GDA | 56 | 318941 | 6394545 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Joel Deacon,Arrow Heritage Solutions | | | | | **Permits** | | |
| 37-6-4044 | 2010-HVOSE-11 | GDA | 56 | 319297 | 6394403 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Joel Deacon,Arrow Heritage Solutions | | | | | **Permits** | | |
| 37-6-4083 | 2010-HVOSE-22 | GDA | 56 | 319503 | 6394922 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Joel Deacon,Arrow Heritage Solutions | | | | | **Permits** | | |
| 37-6-4024 | 2010-HVOSE-18 | GDA | 56 | 318890 | 6393975 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Joel Deacon,Arrow Heritage Solutions | | | | | **Permits** | | |
| 37-6-1443 | JP 22 | AGD | 56 | 318841 | 6393273 | Open site | Valid | Artefact : - | | |
| | **Contact** T Russell | **Recorders** | Mr.Peter Kuskie | | | | | **Permits** | 2085 | |
| 37-6-4023 | 2010-HVOSE-15 | GDA | 56 | 319099 | 6394431 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Joel Deacon,Arrow Heritage Solutions | | | | | **Permits** | | |
| 37-6-4074 | HVO-1512 | GDA | 56 | 319374 | 6394635 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Joel Deacon,Arrow Heritage Solutions | | | | | **Permits** | | |
| 37-6-4072 | HVO-1510 | GDA | 56 | 319314 | 6394670 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Joel Deacon,Arrow Heritage Solutions | | | | | **Permits** | | |
| 37-6-4021 | 2010-HVOSE-13 | GDA | 56 | 319048 | 6394150 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Joel Deacon,Arrow Heritage Solutions | | | | | **Permits** | | |
| 37-6-4077 | HVO-1629 | GDA | 56 | 319557 | 6395002 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Joel Deacon,Arrow Heritage Solutions | | | | | **Permits** | | |

**** 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.

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**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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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115l

Client Service ID : 834791

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-6-4040 | 2010-HVOSE-05 | GDA | 56 | 320386 | 6394933 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Joel Deacon,Arrow Heritage Solutions | | | | | **Permits** | | |
| 37-6-4046 | HVO-1642 | GDA | 56 | 319964 | 6395172 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Joel Deacon,Arrow Heritage Solutions | | | | | **Permits** | | |
| 37-6-4049 | HVO-1518 | GDA | 56 | 320015 | 6394703 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Joel Deacon,Arrow Heritage Solutions | | | | | **Permits** | | |
| 37-6-4042 | 2010-HVOSE-07 | GDA | 56 | 320451 | 6394576 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Joel Deacon,Arrow Heritage Solutions | | | | | **Permits** | | |
| 37-6-4065 | HVO-1693 | GDA | 56 | 319823 | 6395868 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Joel Deacon,Arrow Heritage Solutions | | | | | **Permits** | | |
| 37-6-4047 | HVO-1627 | GDA | 56 | 319965 | 6394966 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Joel Deacon,Arrow Heritage Solutions | | | | | **Permits** | | |
| 37-6-4054 | HVO-1544 | GDA | 56 | 320701 | 6394887 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Joel Deacon,Arrow Heritage Solutions | | | | | **Permits** | | |
| 37-6-4053 | HVO-1532 | GDA | 56 | 320779 | 6394472 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Joel Deacon,Arrow Heritage Solutions | | | | | **Permits** | | |
| 37-6-4041 | 2010-HVOSE-06 | GDA | 56 | 320498 | 6394837 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Joel Deacon,Arrow Heritage Solutions | | | | | **Permits** | | |
| 37-6-0018 | Wylies Flat 1 | AGD | 56 | 320753 | 6394723 | Open site | Valid | Artefact : - | Open Camp Site | |
| | **Contact** | **Recorders** | ASRSYS | | | | | **Permits** | | |
| 37-6-4043 | 2010-HVOSE-08 | GDA | 56 | 320525 | 6394437 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Joel Deacon,Arrow Heritage Solutions | | | | | **Permits** | | |
| 37-6-4080 | HVO-1632 | GDA | 56 | 319722 | 6395064 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Joel Deacon,Arrow Heritage Solutions | | | | | **Permits** | | |
| 37-6-4035 | 2010-HVOSE-04 | GDA | 56 | 319786 | 6395103 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Joel Deacon,Arrow Heritage Solutions | | | | | **Permits** | | |
| 37-6-4048 | HVO-1519 | GDA | 56 | 319783 | 6394787 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Joel Deacon,Arrow Heritage Solutions | | | | | **Permits** | | |
| 37-6-0154 | Mt Thorley;Mt Thorley D; | AGD | 56 | 320503 | 6393438 | Open site | Valid | Artefact : - | Open Camp Site | 302,1676,2071 |
| | **Contact** | **Recorders** | ASRSYS | | | | | **Permits** | | |
| 37-6-4052 | HVO-1533 | GDA | 56 | 320727 | 6394513 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Joel Deacon,Arrow Heritage Solutions | | | | | **Permits** | | |
| 37-6-4051 | HVO-1689 | GDA | 56 | 320350 | 6395013 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Joel Deacon,Arrow Heritage Solutions | | | | | **Permits** | | |
| 37-6-0019 | Gouldsville;Wylies Flat; | AGD | 56 | 320845 | 6394725 | Open site | Valid | Artefact : - | Open Camp Site | |
| | **Contact** | **Recorders** | ASRSYS | | | | | **Permits** | | |

**Report generated by AHIMS Web Service on 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 319710.0 - 321283.0, Northings : 6393390.0 - 6397350.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 18**

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115l

Client Service ID : 834791

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|

**** 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 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 319710.0 - 321283.0, Northings : 6393390.0 - 6397350.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 18**

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115k

Client Service ID : 834794

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-6-3446 | HVO-1303 | GDA | 56 | 318292 | 6396218 | Open site | Valid | Artefact : - | | |
| Contact | | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3451 | HVO-1308 | GDA | 56 | 318327 | 6396067 | Open site | Valid | Artefact : - | | |
| Contact | | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3427 | HVO-1284 | GDA | 56 | 318414 | 6395690 | Open site | Valid | Artefact : - | | |
| Contact | | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3444 | HVO-1301 | GDA | 56 | 318435 | 6396238 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| Contact | | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3440 | HVO-1297 | GDA | 56 | 318554 | 6396290 | Open site | Valid | Artefact : - | | |
| Contact | | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3491 | HVO-1349 | GDA | 56 | 318797 | 6396004 | Open site | Valid | Artefact : - | | |
| Contact | | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3521 | HVO-1379 | GDA | 56 | 318861 | 6395876 | Open site | Valid | Artefact : - | | |
| Contact | | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3480 | HVO-1339 | GDA | 56 | 318939 | 6396140 | Open site | Valid | Artefact : - | | |
| Contact | | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3477 | HVO-1336 | GDA | 56 | 318966 | 6396130 | Open site | Valid | Artefact : - | | |
| Contact | | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 33-6-0038 | HVO-1333 | GDA | 56 | 318987 | 6396218 | Open site | Valid | Artefact : - | | |
| Contact | | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3529 | HVO-1387 | GDA | 56 | 319099 | 6396269 | Open site | Valid | Artefact : - | | |
| Contact | | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3470 | HVO-1327 | GDA | 56 | 319119 | 6396231 | Open site | Valid | Artefact : - | | |
| Contact | | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3454 | HVO-1311 | GDA | 56 | 318615 | 6396273 | Open site | Valid | Artefact : - | | |
| Contact | | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3455 | HVO-1312 | GDA | 56 | 318623 | 6396285 | Open site | Valid | Artefact : - | | |
| Contact | | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-0010 | Heatherlea; | AGD | 56 | 318628 | 6395872 | Open site | Valid | Artefact : - | Open Camp Site | |
| Contact | | Recorders | ASRSYS | | | | | Permits | | |
| 37-6-3450 | HVO-1307 | GDA | 56 | 318360 | 6396055 | Open site | Valid | Artefact : - | | |
| Contact | | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3445 | HVO-1302 | GDA | 56 | 318398 | 6396237 | Open site | Valid | Artefact : - | | |
| Contact | | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |

**Report generated by AHIMS Web Service on 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 318121.0 - 319141.0, Northings : 6395385.0 - 6396364.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 81**

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115k

Client Service ID : 834794

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-6-3442 | HVO-1299 | GDA | 56 | 318479 | 6396289 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3467 | HVO-1324 | GDA | 56 | 318807 | 6396347 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3476 | HVO-1335 | GDA | 56 | 318957 | 6396218 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3453 | HVO-1310 | GDA | 56 | 318611 | 6396272 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3464 | HVO-1321 | GDA | 56 | 318695 | 6396317 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3462 | HVO-1319 | GDA | 56 | 318712 | 6396308 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3441 | HVO-1298 | GDA | 56 | 318535 | 6396291 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3489 | HVO-1347 | GDA | 56 | 318871 | 6395994 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3525 | HVO-1383 | GDA | 56 | 318941 | 6395430 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3530 | HVO-1388 | GDA | 56 | 319126 | 6396259 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3469 | HVO-1326 | GDA | 56 | 319132 | 6396223 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3439 | HVO-1296 | GDA | 56 | 318583 | 6396272 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3456 | HVO-1313 | GDA | 56 | 318683 | 6396280 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3457 | HVO-1314 | GDA | 56 | 318692 | 6396287 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3463 | HVO-1320 | GDA | 56 | 318713 | 6396321 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |

**Report generated by AHIMS Web Service on 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 318121.0 - 319141.0, Northings : 6395385.0 - 6396364.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 81**

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115k

Client Service ID : 834794

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-6-3465 | HVO-1322 | GDA | 56 | 318746 | 6396343 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3474 | HVO-1332 | GDA | 56 | 318999 | 6396134 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3512 | HVO-1370 | GDA | 56 | 319010 | 6395743 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3424 | HVO-1281 | GDA | 56 | 318177 | 6395741 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3425 | HVO-1282 | GDA | 56 | 318213 | 6395772 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3443 | HVO-1300 | GDA | 56 | 318508 | 6396305 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3485 | HVO-1343 | GDA | 56 | 318931 | 6396075 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3527 | HVO-1385 | GDA | 56 | 319087 | 6396285 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3528 | HVO-1386 | GDA | 56 | 319091 | 6396284 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3461 | HVO-1318 | GDA | 56 | 318715 | 6396307 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3459 | HVO-1316 | GDA | 56 | 318716 | 6396304 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3460 | HVO-1317 | GDA | 56 | 318719 | 6396306 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3466 | HVO-1323 | GDA | 56 | 318757 | 6396351 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3488 | HVO-1346 | GDA | 56 | 319008 | 6396061 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3392 | HVO-1275 | GDA | 56 | 318150 | 6396242 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3447 | HVO-1304 | GDA | 56 | 318281 | 6396228 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Ms.Helen Selimiotis | | | | | **Permits** | | |
| 37-6-3436 | HVO-1293 | GDA | 56 | 318516 | 6396239 | Open site | Valid | Artefact : - | | |

**Report generated by AHIMS Web Service on 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 318121.0 - 319141.0, Northings : 6395385.0 - 6396364.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 81**

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115k

Client Service ID : 834794

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3518 | HVO-1376 | GDA | 56 | 318861 | 6395838 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3486 | HVO-1344 | GDA | 56 | 318901 | 6396057 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3481 | HVO-1340 | GDA | 56 | 318939 | 6396131 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3522 | HVO-1380 | GDA | 56 | 318978 | 6395911 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3458 | HVO-1315 | GDA | 56 | 318706 | 6396288 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3449 | HVO-1306 | GDA | 56 | 318191 | 6396216 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3520 | HVO-1378 | GDA | 56 | 318781 | 6395863 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3487 | HVO-1345 | GDA | 56 | 318913 | 6396071 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3484 | HVO-1342 | GDA | 56 | 318920 | 6396090 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3482 | HVO-1341 | GDA | 56 | 318923 | 6396135 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3511 | HVO-1369 | GDA | 56 | 318947 | 6395741 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3517 | HVO-1375 | GDA | 56 | 318954 | 6395785 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3473 | HVO-1331 | GDA | 56 | 319038 | 6396113 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3526 | HVO-1384 | GDA | 56 | 319086 | 6396292 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3510 | HVO-1368 | GDA | 56 | 319125 | 6396014 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3531 | HVO-1389 | GDA | 56 | 319129 | 6396271 | Open site | Valid | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3438 | HVO-1295 | GDA | 56 | 318561 | 6396255 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |

**Report generated by AHIMS Web Service on 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 318121.0 - 319141.0, Northings : 6395385.0 - 6396364.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 81**

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115k

Client Service ID : 834794

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-6-3492 | HVO-1350 | GDA | 56 | 318617 | 6396025 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3432 | HVO-1289 | GDA | 56 | 318442 | 6395407 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3479 | HVO-1338 | GDA | 56 | 318951 | 6396134 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3475 | HVO-1334 | GDA | 56 | 318972 | 6396221 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3468 | HVO-1325 | GDA | 56 | 319128 | 6396246 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3426 | HVO-1283 | GDA | 56 | 318192 | 6395806 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3448 | HVO-1305 | GDA | 56 | 318197 | 6396208 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3435 | HVO-1292 | GDA | 56 | 318332 | 6396086 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3437 | HVO-1294 | GDA | 56 | 318531 | 6396244 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3524 | HVO-1382 | GDA | 56 | 318554 | 6395688 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3490 | HVO-1348 | GDA | 56 | 318805 | 6395993 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3519 | HVO-1377 | GDA | 56 | 318826 | 6395816 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3478 | HVO-1337 | GDA | 56 | 318981 | 6396120 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3545 | HVO-1403 | GDA | 56 | 319077 | 6396335 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |
| 37-6-3472 | HVO-1330 | GDA | 56 | 319115 | 6396118 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | Ms.Helen Selimiotis | | | | | Permits | | |

**** 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 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 318121.0 - 319141.0, Northings : 6395385.0 - 6396364.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 81**

This information is not guaranteed to be free from error omission. Heritage NSW and its employees disclaim liability for any act done or omission made on the information and consequences of such acts or omission.

# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115i

Client Service ID : 834796

| SiteID | SiteName | | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 37-6-4322 | MD003 | | GDA | 56 | 319626 | 6399527 | Open site | Valid | Artefact : - | | |
| | **Contact** | | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Jordan Henshaw | | | | | **Permits** | | |
| 37-6-1801 | MU3A | | GDA | 56 | 319480 | 6397860 | Open site | Valid | Artefact : - | | |
| | **Contact** | T Russell | **Recorders** | Wildthing Environmental Consultants | | | | | **Permits** | 2887 | |
| 37-6-4323 | MD004 | | GDA | 56 | 319591 | 6399618 | Open site | Valid | Artefact : - | | |
| | **Contact** | | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Jordan Henshaw | | | | | **Permits** | | |
| 37-6-4264 | MD070 | | GDA | 56 | 318947 | 6399532 | Open site | Valid | Artefact : - | | |
| | **Contact** | | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Jordan Henshaw | | | | | **Permits** | | |
| 37-6-4324 | MD002 | | GDA | 56 | 319419 | 6399220 | Open site | Valid | Artefact : - | | |
| | **Contact** | | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Jordan Henshaw | | | | | **Permits** | | |
| 37-6-1800 | MU3B | | GDA | 56 | 319500 | 6397930 | Open site | Valid | Artefact : - | | |
| | **Contact** | Searle | **Recorders** | Wildthing Environmental Consultants | | | | | **Permits** | 2887 | |
| 37-6-1802 | MU2B | | GDA | 56 | 319760 | 6397980 | Open site | Valid | Artefact : - | | |
| | **Contact** | Searle | **Recorders** | Wildthing Environmental Consultants | | | | | **Permits** | 2887 | |
| 37-6-4321 | MD001 | | GDA | 56 | 319578 | 6399175 | Open site | Valid | Artefact : - | | |
| | **Contact** | | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Jordan Henshaw | | | | | **Permits** | | |
| 37-6-1803 | MU2A | | GDA | 56 | 319620 | 6397980 | Open site | Valid | Artefact : - | | |
| | **Contact** | Searle | **Recorders** | Wildthing Environmental Consultants | | | | | **Permits** | 2887 | |

**** 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 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 317956.0 - 320502.0, Northings : 6397386.0 - 6399832.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 9**

This information is not guaranteed to be free from error omission. Heritage NSW and its employees disclaim liability for any act done or omission made on the information and consequences of such acts or omission.

# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115h

Client Service ID : 834799

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-6-4318 | MD017 | GDA | 56 | 318714 | 6400416 | Open site | Valid | Artefact : - | | |
| Contact | Recorders | OzArk Environmental and Heritage Management - Dubbo,Mr.Jordan Henshaw | | | | | | Permits | | |
| 37-6-4305 | MD028 | GDA | 56 | 319844 | 6402280 | Open site | Valid | Artefact : - | | |
| Contact | Recorders | OzArk Environmental and Heritage Management - Dubbo,Mr.Jordan Henshaw | | | | | | Permits | | |
| 37-6-4281 | MD052 | GDA | 56 | 320295 | 6401084 | Open site | Valid | Artefact : - | | |
| Contact | Recorders | OzArk Environmental and Heritage Management - Dubbo,Mr.Jordan Henshaw | | | | | | Permits | | |
| 37-6-1822 | Moxley 01 | GDA | 56 | 318700 | 6399900 | Open site | Valid | Artefact : 4 | | 100844 |
| Contact | Recorders | Mrs.Angela Besant | | | | | | Permits | | |
| 37-6-4274 | MD058 | GDA | 56 | 319941 | 6401472 | Open site | Valid | Artefact : - | | |
| Contact | Recorders | OzArk Environmental and Heritage Management - Dubbo,Mr.Jordan Henshaw | | | | | | Permits | | |
| 37-6-4319 | MD018 | GDA | 56 | 318875 | 6400644 | Open site | Valid | Artefact : - | | |
| Contact | Recorders | OzArk Environmental and Heritage Management - Dubbo,Mr.Jordan Henshaw | | | | | | Permits | | |
| 37-6-4306 | MD027 | GDA | 56 | 319570 | 6401860 | Open site | Valid | Artefact : - | | |
| Contact | Recorders | OzArk Environmental and Heritage Management - Dubbo,Mr.Jordan Henshaw | | | | | | Permits | | |
| 37-6-4273 | MD060 | GDA | 56 | 319887 | 6401122 | Open site | Valid | Artefact : - | | |
| Contact | Recorders | OzArk Environmental and Heritage Management - Dubbo,Mr.Jordan Henshaw | | | | | | Permits | | |
| 37-6-4277 | MD057 | GDA | 56 | 320015 | 6401203 | Open site | Valid | Artefact : - | | |
| Contact | Recorders | OzArk Environmental and Heritage Management - Dubbo,Mr.Jordan Henshaw | | | | | | Permits | | |
| 37-6-4295 | MD038 | GDA | 56 | 320110 | 6402216 | Open site | Valid | Artefact : - | | |
| Contact | Recorders | OzArk Environmental and Heritage Management - Dubbo,Mr.Jordan Henshaw | | | | | | Permits | | |
| 37-6-0176 | Rix's Creek; | AGD | 56 | 318546 | 6400261 | Open site | Valid | Artefact : - | Open Camp Site | |
| Contact | Recorders | ASRSYS | | | | | | Permits | | |
| 37-6-4282 | MD051 | GDA | 56 | 320348 | 6401116 | Open site | Valid | Artefact : - | | |
| Contact | Recorders | OzArk Environmental and Heritage Management - Dubbo,Mr.Jordan Henshaw | | | | | | Permits | | |
| 37-6-4298 | MD035 | GDA | 56 | 320360 | 6402243 | Open site | Valid | Artefact : - | | |
| Contact | Recorders | OzArk Environmental and Heritage Management - Dubbo,Mr.Jordan Henshaw | | | | | | Permits | | |
| 37-6-4272 | MD062 | GDA | 56 | 319899 | 6401152 | Open site | Valid | Artefact : - | | |
| Contact | Recorders | OzArk Environmental and Heritage Management - Dubbo,Mr.Jordan Henshaw | | | | | | Permits | | |
| 37-6-4278 | MD055 | GDA | 56 | 320206 | 6401114 | Open site | Valid | Artefact : - | | |
| Contact | Recorders | OzArk Environmental and Heritage Management - Dubbo,Mr.Jordan Henshaw | | | | | | Permits | | |
| 37-6-4267 | MD067 | GDA | 56 | 320943 | 6401539 | Open site | Valid | Artefact : - | | |
| Contact | Recorders | OzArk Environmental and Heritage Management - Dubbo,Mr.Jordan Henshaw | | | | | | Permits | | |
| 37-6-4297 | MD036 | GDA | 56 | 320290 | 6402167 | Open site | Valid | Artefact : - | | |
| Contact | Recorders | OzArk Environmental and Heritage Management - Dubbo,Mr.Jordan Henshaw | | | | | | Permits | | |
| 37-6-4311 | MD022 | GDA | 56 | 318464 | 6400624 | Open site | Valid | Artefact : - | | |
| Contact | Recorders | OzArk Environmental and Heritage Management - Dubbo,Mr.Jordan Henshaw | | | | | | Permits | | |

**Report generated by AHIMS Web Service on 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 318409.0 - 320956.0, Northings : 6399851.0 - 6402298.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 44**

This information is not guaranteed to be free from error omission. Heritage NSW and its employees disclaim liability for any act done or omission made on the information and consequences of such acts or omission.

# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115h

Client Service ID : 834799

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-6-4312 | MD021 | GDA | 56 | 318795 | 6400694 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Jordan Henshaw | | | | | **Permits** | | |
| 37-6-4308 | MD025 | GDA | 56 | 319270 | 6401657 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Jordan Henshaw | | | | | **Permits** | | |
| 37-6-4266 | MD068 | GDA | 56 | 320664 | 6401114 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Jordan Henshaw | | | | | **Permits** | | |
| 37-6-4310 | MD023 | GDA | 56 | 319088 | 6401650 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Jordan Henshaw | | | | | **Permits** | | |
| 37-6-4309 | MD024 | GDA | 56 | 319128 | 6401660 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Jordan Henshaw | | | | | **Permits** | | |
| 37-6-4269 | MD065 | GDA | 56 | 320922 | 6401595 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Jordan Henshaw | | | | | **Permits** | | |
| 37-6-4285 | MD048 | GDA | 56 | 320809 | 6400985 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Jordan Henshaw | | | | | **Permits** | | |
| 37-6-4299 | MD034 | GDA | 56 | 320368 | 6402248 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Jordan Henshaw | | | | | **Permits** | | |
| 37-6-4302 | MD032 | GDA | 56 | 320405 | 6402234 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Jordan Henshaw | | | | | **Permits** | | |
| 37-6-4303 | MD033 | GDA | 56 | 320428 | 6402255 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Jordan Henshaw | | | | | **Permits** | | |
| 37-6-4317 | MD016 | GDA | 56 | 318703 | 6400397 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Jordan Henshaw | | | | | **Permits** | | |
| 37-6-4276 | MD056 | GDA | 56 | 320020 | 6401155 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Jordan Henshaw | | | | | **Permits** | | |
| 37-6-4283 | MD050 | GDA | 56 | 320802 | 6400932 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Jordan Henshaw | | | | | **Permits** | | |
| 37-6-4313 | MD020 | GDA | 56 | 318843 | 6400747 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Jordan Henshaw | | | | | **Permits** | | |
| 37-6-4320 | MD019 | GDA | 56 | 318857 | 6400634 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Jordan Henshaw | | | | | **Permits** | | |
| 37-6-4294 | MD039 | GDA | 56 | 319272 | 6401633 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Jordan Henshaw | | | | | **Permits** | | |
| 37-6-4275 | MD059 | GDA | 56 | 319845 | 6401147 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Jordan Henshaw | | | | | **Permits** | | |
| 37-6-4296 | MD037 | GDA | 56 | 320115 | 6402204 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Jordan Henshaw | | | | | **Permits** | | |

**Report generated by AHIMS Web Service on 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 318409.0 - 320956.0, Northings : 6399851.0 - 6402298.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 44**

This information is not guaranteed to be free from error omission. Heritage NSW and its employees disclaim liability for any act done or omission made on the information and consequences of such acts or omission.

# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115h

Client Service ID : 834799

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-6-4265 | MD069 | GDA | 56 | 320664 | 6401114 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Jordan Henshaw | | | | | **Permits** | | |
| 37-6-4307 | MD026 | GDA | 56 | 319331 | 6401740 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Jordan Henshaw | | | | | **Permits** | | |
| 37-6-4316 | MD015 | GDA | 56 | 318849 | 6400396 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Jordan Henshaw | | | | | **Permits** | | |
| 37-6-4315 | MD014 | GDA | 56 | 318909 | 6400386 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Jordan Henshaw | | | | | **Permits** | | |
| 37-6-4314 | MD011 | GDA | 56 | 319049 | 6400448 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Jordan Henshaw | | | | | **Permits** | | |
| 37-6-4280 | MD053 | GDA | 56 | 320147 | 6401137 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Jordan Henshaw | | | | | **Permits** | | |
| 37-6-4279 | MD054 | GDA | 56 | 320203 | 6401143 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Jordan Henshaw | | | | | **Permits** | | |
| 37-6-4284 | MD049 | GDA | 56 | 320830 | 6400950 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Jordan Henshaw | | | | | **Permits** | | |

**** 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 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 318409.0 - 320956.0, Northings : 6399851.0 - 6402298.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 44**

This information is not guaranteed to be free from error omission. Heritage NSW and its employees disclaim liability for any act done or omission made on the information and consequences of such acts or omission.

# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115g

Client Service ID : 834803

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-3-0810 | SA1/8-SA1/11, SA4/2, SA11/1-SA11/6 | GDA | 56 | 319710 | 6404240 | Open site | Valid | Artefact : 11, Potential Archaeological Deposit (PAD) : 1 | | 101747 |
| | **Contact** | **Recorders** | Mrs.Angela Besant | | | | | **Permits** | | |
| 37-3-0809 | SA8/10, SA8/12, SA8/14 | GDA | 56 | 319951 | 6402821 | Open site | Valid | Artefact : 1, Grinding Groove : 1 | | 101747 |
| | **Contact** | **Recorders** | Mrs.Angela Besant | | | | | **Permits** | | |
| 37-3-0805 | SA4/3-SA5/5, SA5/1-SA5/8, SA5/10-SA5/11, SA6/1-SA6/4 | GDA | 56 | 321027 | 6403665 | Open site | Valid | Artefact : 17 | | 101747 |
| | **Contact** | **Recorders** | Mrs.Angela Besant | | | | | **Permits** | | |
| 37-6-4300 | MD030 | GDA | 56 | 320523 | 6402396 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Jordan Henshaw | | | | | **Permits** | | |
| 37-3-0808 | SA8/1, SA8/5-SA8/9, SA9/1-SA9/2 | GDA | 56 | 319795 | 6403149 | Open site | Valid | Artefact : 7 | | 101747 |
| | **Contact** | **Recorders** | Mrs.Angela Besant | | | | | **Permits** | | |
| 37-6-4301 | MD031 | GDA | 56 | 320548 | 6402379 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Jordan Henshaw | | | | | **Permits** | | |
| 37-3-0804 | SA4/11, SA4/6-SA4/11 | GDA | 56 | 320345 | 6404168 | Open site | Valid | Artefact : 7 | | 101747 |
| | **Contact** | **Recorders** | Mrs.Angela Besant | | | | | **Permits** | | |
| 37-3-0549 | Ashton EWA 60 - Same site as 37-3-0541 | GDA | 56 | 318903 | 6403580 | Open site | Valid | Artefact : - | | 98163,102139, 104465 |
| | **Contact** | **Recorders** | Dan Witter | | | | | **Permits** | 3391 | |
| 37-3-0807 | SA6/8, SA6/11, SA7/1, SA7/3-SA7/6, SA8/2-SA8/13 | GDA | 56 | 320215 | 6403355 | Open site | Valid | Artefact : 7 | | 101747 |
| | **Contact** | **Recorders** | Mrs.Angela Besant | | | | | **Permits** | | |
| 37-6-4304 | MD029 | GDA | 56 | 320103 | 6402418 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Jordan Henshaw | | | | | **Permits** | | |
| 37-3-0540 | Ashton Glennies Bluff Site | AGD | 56 | 319059 | 6404050 | Open site | Valid | Artefact : - | | 98163,104465 |
| | **Contact** | **Recorders** | Dan Witter | | | | | **Permits** | | |
| 37-3-0801 | SA10/1 & SA10/2 | GDA | 56 | 320732 | 6404660 | Open site | Valid | Artefact : 2 | | 101747 |
| | **Contact** | **Recorders** | Mrs.Angela Besant | | | | | **Permits** | | |
| 37-3-0806 | SA6/5-SA6/7, SA6/9-SA6/10, SA6/12, SA7/2 | GDA | 56 | 320493 | 6403367 | Open site | Valid | Artefact : 7 | | 101747 |
| | **Contact** | **Recorders** | Mrs.Angela Besant | | | | | **Permits** | | |
| 37-3-0803 | SA1/1-SA1/7, SA2/1-SA2/6, SA3/1 | GDA | 56 | 320356 | 6404731 | Open site | Valid | Artefact : 13 | | 101747 |
| | **Contact** | **Recorders** | Mrs.Angela Besant | | | | | **Permits** | | |
| 37-6-2110 | SA8/11 | GDA | 56 | 320757 | 6402570 | Open site | Valid | Artefact : 1 | | 101747 |
| | **Contact** | **Recorders** | Mrs.Angela Besant | | | | | **Permits** | | |
| 37-3-0533 | Ashton Ridge Peak site | AGD | 56 | 318933 | 6404325 | Open site | Valid | Artefact : - | | 98163,102139, 102617,104465 |

**Report generated by AHIMS Web Service on 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 318565.0 - 321112.0, Northings : 6402317.0 - 6404764.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 18**

This information is not guaranteed to be free from error omission. Heritage NSW and its employees disclaim liability for any act done or omission made on the information and consequences of such acts or omission.

# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115g

Client Service ID : 834803

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| | **Contact** | **Recorders** | Dan Witter | | | | | **Permits** | 2783,3436 | |
| 37-3-0541 | Ashton Glennies Creek site | AGD | 56 | 318948 | 6403776 | Open site | Valid | Grinding Groove : -, Artefact : - | | 98163,102617, 104465 |
| | **Contact** | **Recorders** | Dan Witter | | | | | **Permits** | 3436 | |
| 37-3-0550 | Ashton EWA 68 | AGD | 56 | 319107 | 6404223 | Open site | Valid | Artefact : - | | 98163,102139 |
| | **Contact** | **Recorders** | Dan Witter | | | | | **Permits** | | |

**** 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 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 318565.0 - 321112.0, Northings : 6402317.0 - 6404764.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 18**

This information is not guaranteed to be free from error omission. Heritage NSW and its employees disclaim liability for any act done or omission made on the information and consequences of such acts or omission.

# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115f

Client Service ID : 834806

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-3-0517 | ASH21 | AGD | 56 | 318567 | 6405704 | Open site | Valid | Artefact : - | | 102139,102617,104465 |
| | **Contact** | **Recorders** | Ms.Vanessa Hardy | | | | | **Permits** | 3436 | |
| 37-3-0737 | Ashton EWA 77 | AGD | 56 | 319099 | 6404875 | Open site | Valid | Artefact : 3 | | 100602,102139,102617,104465 |
| | **Contact** Searle | **Recorders** | Mrs.Angela Besant | | | | | **Permits** | 2783,3436 | |
| 37-3-0539 | Ashton Glennies Flats site 1 | AGD | 56 | 319410 | 6404860 | Open site | Valid | Artefact : - | | 98163 |
| | **Contact** | **Recorders** | Dan Witter | | | | | **Permits** | | |
| 37-3-0527 | Ashton EWA 17 | AGD | 56 | 319974 | 6406963 | Open site | Valid | Artefact : - | | 98163 |
| | **Contact** | **Recorders** | Dan Witter | | | | | **Permits** | | |
| 37-3-1147 | AFA52, AFA53, AFA54 | GDA | 56 | 318525 | 6406310 | Open site | Valid | Artefact : - | | 102139,102617,104465 |
| | **Contact** | **Recorders** | Ashton Coal Operations Limited | | | | | **Permits** | 3436 | |
| 37-3-0537 | Ashton High Ridge Workshop site (EWA 86) | AGD | 56 | 319096 | 6405565 | Open site | Valid | Artefact : - | | 98163,102617,104465 |
| | **Contact** | **Recorders** | Dan Witter | | | | | **Permits** | 2783,3436 | |
| 37-3-0502 | ASH6 | AGD | 56 | 318205 | 6405462 | Open site | Valid | Artefact : - | | 102139,102617,104465 |
| | **Contact** | **Recorders** | Ms.Vanessa Hardy | | | | | **Permits** | 2783,3436 | |
| 37-3-1148 | AFA 55 | GDA | 56 | 318326 | 6406063 | Open site | Destroyed | Artefact : 1 | | 102139,102617,104465 |
| | **Contact** | **Recorders** | Mrs.Angela Besant,Insite Heritage Pty Ltd,Ashton Coal Operations Limited | | | | | **Permits** | 3428 | |
| 37-3-0529 | Ashton EWA 24 | AGD | 56 | 319546 | 6405851 | Open site | Destroyed | Artefact : - | | 98163,102139 |
| | **Contact** | **Recorders** | Dan Witter | | | | | **Permits** | 1691 | |
| 37-3-0538 | Ashton Glennies Flats 2 site | AGD | 56 | 319563 | 6404982 | Open site | Valid | Artefact : - | | 98163 |
| | **Contact** | **Recorders** | Dan Witter | | | | | **Permits** | | |
| 37-3-1296 | REA379 | GDA | 56 | 317976 | 6406781 | Open site | Destroyed | Artefact : - | | 104465 |
| | **Contact** | **Recorders** | Ms.Nadia Zakrzewski,Ms.Alison Lamond | | | | | **Permits** | | |
| 37-3-1585 | Ravensworth Open Cut IF-2 | GDA | 56 | 318054 | 6406952 | Open site | Valid | Artefact : - | | 104465 |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Ben Churcher | | | | | **Permits** | | |
| 37-3-0518 | ASH22 | AGD | 56 | 319117 | 6405476 | Open site | Valid | Artefact : - | | 102139,102617,104465 |
| | **Contact** | **Recorders** | Ms.Vanessa Hardy | | | | | **Permits** | 3436 | |
| 37-3-1014 | REA142 | GDA | 56 | 318192 | 6407007 | Open site | Destroyed | Artefact : - | | 102617,104465 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Ms.Alison Lamond | | | | | **Permits** | 3428 | |
| 37-3-1637 | COA1 | GDA | 56 | 319984 | 6405856 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Insite Heritage Pty Ltd,Ms.Elizabeth Wyatt | | | | | **Permits** | | |

**Report generated by AHIMS Web Service on 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 317800.0 - 320347.0, Northings : 6404784.0 - 6407230.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 59**

This information is not guaranteed to be free from error omission. Heritage NSW and its employees disclaim liability for any act done or omission made on the information and consequences of such acts or omission.

# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115f

Client Service ID : 834806

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-3-0581 | Ashton EWA 93 alson known as Homestead site | AGD | 56 | 318420 | 6405517 | Open site | Valid | Artefact : - | | 102139,102617,104465 |
| | **Contact** | **Recorders** | | | | | | | **Permits** 2783,3436 | |
| 37-3-0501 | ASH5 | AGD | 56 | 318425 | 6405388 | Open site | Valid | Artefact : - | | 102139,102617,104465 |
| | **Contact** | **Recorders** | Ms.Vanessa Hardy | | | | | | **Permits** 2783,3436 | |
| 37-3-1145 | AFA48, AFA49 & AFA58 | GDA | 56 | 317992 | 6404855 | Open site | Partially Destroyed | Artefact : - | | 102139,102617,104465 |
| | **Contact** | **Recorders** | Ashton Coal Operations Limited,Ms.Elizabeth Wyatt | | | | | | **Permits** 3391,3428 | |
| 37-3-1578 | Bowmans Creek 18 | GDA | 56 | 318007 | 6406971 | Open site | Valid | Artefact : - | | 104465 |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Ben Churcher | | | | | | **Permits** | |
| 37-3-1153 | AFA51 | GDA | 56 | 318050 | 6405339 | Open site | Valid | Artefact : 1 | | 102617,104465 |
| | **Contact** | **Recorders** | Ashton Coal Operations Limited,Cassandra Ferguson | | | | | | **Permits** 3428 | |
| 37-3-0507 | ASH11 | AGD | 56 | 320146 | 6406945 | Open site | Destroyed | Artefact : - | | |
| | **Contact** | **Recorders** | Ms.Vanessa Hardy | | | | | | **Permits** 1691 | |
| 37-3-0553 | Ashton EWA 71 | AGD | 56 | 319247 | 6404798 | Open site | Valid | Artefact : - | | 98163,102139 |
| | **Contact** | **Recorders** | Dan Witter | | | | | | **Permits** | |
| 37-3-1297 | REA378 | GDA | 56 | 318134 | 6406942 | Open site | Destroyed | Artefact : - | | 104465 |
| | **Contact** | **Recorders** | Ms.Nadia Zakrzewski,Ms.Alison Lamond | | | | | | **Permits** | |
| 37-3-0519 | ASH23 | AGD | 56 | 319057 | 6406200 | Open site | Destroyed | Artefact : - | | |
| | **Contact** | **Recorders** | Ms.Vanessa Hardy | | | | | | **Permits** 1691 | |
| 37-3-1446 | RPS CAM AS1 | GDA | 56 | 320211 | 6404966 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | RPS AAP Consulting Pty Ltd - Hamilton,Mr.Ben Slack | | | | | | **Permits** | |
| 37-3-1141 | AFA21, AFA22, AFA23, AFA24 | GDA | 56 | 318385 | 6405947 | Open site | Valid | Artefact : - | | 102139,102617,104465 |
| | **Contact** | **Recorders** | Ashton Coal Operations Limited | | | | | | **Permits** 3428,3436 | |
| 37-3-0512 | ASH16 | AGD | 56 | 318299 | 6405801 | Open site | Destroyed | Artefact : - | | 102139,102617,104465 |
| | **Contact** | **Recorders** | Ms.Vanessa Hardy | | | | | | **Permits** 1691,3436 | |
| 37-3-1016 | REA144 | GDA | 56 | 318003 | 6406831 | Open site | Destroyed | Artefact : 60 | | 102617,103364,104465 |
| | **Contact** | **Recorders** | Mrs.Angela Besant,Umwelt (Australia) Pty Limited - Individual users,Insite Heritag | | | | | | **Permits** 3428 | |
| 37-3-0508 | ASH12 | AGD | 56 | 320094 | 6406775 | Open site | Destroyed | Artefact : - | | |
| | **Contact** | **Recorders** | Ms.Vanessa Hardy | | | | | | **Permits** 1691 | |
| 37-3-0802 | SA13/3 | GDA | 56 | 319339 | 6405385 | Open site | Valid | Artefact : 2 | | 101747,102617,104465 |
| | **Contact** | **Recorders** | Mrs.Angela Besant | | | | | | **Permits** 3436 | |
| 37-3-0504 | Ashton TSR Site | GDA | 56 | 319395 | 6405943 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Ms.Vanessa Hardy,Insite Heritage Pty Ltd,Ms.Elizabeth Wyatt | | | | | | **Permits** 1691 | |

**Report generated by AHIMS Web Service on 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 317800.0 - 320347.0, Northings : 6404784.0 - 6407230.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 59**

This information is not guaranteed to be free from error omission. Heritage NSW and its employees disclaim liability for any act done or omission made on the information and consequences of such acts or omission.

# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115f

Client Service ID : 834806

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-3-0513 | ASH17 | AGD | 56 | 318536 | 6405790 | Open site | Destroyed | Artefact : - | | 102139,102617,104465 |
| | **Contact** | **Recorders** | Ms.Vanessa Hardy | | | | | **Permits** | 1691,3436 | |
| 37-3-0511 | ASH15 | AGD | 56 | 318402 | 6405307 | Open site | Valid | Artefact : - | | 102139,102617,104465 |
| | **Contact** | **Recorders** | Ms.Vanessa Hardy | | | | | **Permits** | 2783,3436 | |
| 37-3-0514 | ASH18 | AGD | 56 | 318428 | 6405883 | Open site | Valid | Artefact : - | | 102139,102617,104465 |
| | **Contact** | **Recorders** | Ms.Vanessa Hardy | | | | | **Permits** | 3436 | |
| 37-3-0555 | Ashton EWA 83 | AGD | 56 | 318727 | 6405883 | Open site | Valid | Artefact : - | | 98163,102139,102617,104465 |
| | **Contact** | **Recorders** | Dan Witter | | | | | **Permits** | 3436 | |
| 37-3-0526 | Ashton EWA 16 | GDA | 56 | 320252 | 6407135 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Dan Witter,OzArk Environmental and Heritage Management - Dubbo,Miss.Stephani | | | | | **Permits** | | |
| 37-3-0554 | Ashton EWA 78 | AGD | 56 | 319111 | 6404804 | Open site | Valid | Artefact : - | | 98163,102139,102617,104465 |
| | **Contact** | **Recorders** | Dan Witter | | | | | **Permits** | 3436 | |
| 37-3-0551 | Ashton EWA 69 | AGD | 56 | 319117 | 6404707 | Open site | Valid | Artefact : - | | 98163,102139,102617,104465 |
| | **Contact** | **Recorders** | Dan Witter | | | | | **Permits** | 3436 | |
| 37-3-0552 | Ashton EWA 70 | AGD | 56 | 319141 | 6404775 | Open site | Valid | Artefact : - | | 98163,102139,102617,104465 |
| | **Contact** | **Recorders** | Dan Witter | | | | | **Permits** | 3436 | |
| 37-3-0592 | Bettys Creek 1 | GDA | 56 | 319329 | 6407149 | Open site | Destroyed | Artefact : - | | 99019,100895 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users | | | | | **Permits** | 2267 | |
| 37-3-0497 | ASH1 also known as (Ashton Bridge Site) | AGD | 56 | 318516 | 6406521 | Open site | Destroyed | Artefact : - | | |
| | **Contact** | **Recorders** | Ms.Vanessa Hardy | | | | | **Permits** | 1691 | |
| 37-3-1543 | Glendell North OS33 | GDA | 56 | 319166 | 6407069 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Miss.Stephanie Rusden | | | | | **Permits** | | |
| 37-3-0559 | Ashton EWA 88 | AGD | 56 | 319535 | 6406043 | Open site | Destroyed | Artefact : - | | 98163 |
| | **Contact** | **Recorders** | Dan Witter | | | | | **Permits** | 1691 | |
| 37-3-0525 | Ashton EWA 21 | AGD | 56 | 319631 | 6406100 | Open site | Destroyed | Artefact : - | | 98163 |
| | **Contact** | **Recorders** | Dan Witter | | | | | **Permits** | 1691 | |
| 37-3-0006 | Camberwell Bowman's Creek | GDA | 56 | 318580 | 6406552 | Open site | Valid | Artefact : - | Open Camp Site | 98163,100761,102139,102617,104465 |

**Report generated by AHIMS Web Service on 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 317800.0 - 320347.0, Northings : 6404784.0 - 6407230.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 59**

This information is not guaranteed to be free from error omission. Heritage NSW and its employees disclaim liability for any act done or omission made on the information and consequences of such acts or omission.

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| | **Contact** | **Recorders** | Len Dyall | | | | | **Permits** | 2990,3436 | |
| 37-3-0496 | Ashton Brunkers Lane Site | AGD | 56 | 317811 | 6406519 | Open site | Destroyed | Potential Archaeological Deposit (PAD) : -, Artefact : 11 | | 101733,102617,104465 |
| | **Contact** | **Recorders** | Dan Witter,Insite Heritage Pty Ltd,Ashton Coal Operations Limited,Ms.Alison Lamo | | | | | **Permits** | 3428 | |
| 37-3-1586 | Ravensworth Open Cut IF-1 | GDA | 56 | 318022 | 6406946 | Open site | Valid | Artefact : - | | 104465 |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Ben Churcher | | | | | **Permits** | | |
| 37-3-0524 | Ashton EWA 20 | AGD | 56 | 319737 | 6406100 | Open site | Destroyed | Artefact : - | | 98163 |
| | **Contact** | **Recorders** | Dan Witter | | | | | **Permits** | 1691 | |
| 37-3-1013 | REA141 | GDA | 56 | 318206 | 6407185 | Open site | Valid | Artefact : - | | 103364 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users | | | | | **Permits** | | |
| 37-3-0500 | ASH4 Waterhole Site same as 37-3-0006 | GDA | 56 | 318580 | 6406552 | Open site | Valid | Artefact : - | | 102139,102617,104465 |
| | **Contact** | **Recorders** | Len Dyall,Ms.Vanessa Hardy | | | | | **Permits** | | |
| 37-3-0547 | Ashton EWA 56 | AGD | 56 | 318571 | 6404615 | Open site | Valid | Artefact : - | | 98163,102139,102617,104465 |
| | **Contact** | **Recorders** | Dan Witter | | | | | **Permits** | 2783,3436 | |
| 37-3-0557 | Ashton EWA 91 | AGD | 56 | 318572 | 6405733 | Open site | Valid | Artefact : - | | 98163,102139,102617,104465 |
| | **Contact** | **Recorders** | Dan Witter | | | | | **Permits** | 2783,3436 | |
| 37-3-1513 | Glendell North IF23 | GDA | 56 | 318833 | 6407204 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Miss.Stephanie Rusden | | | | | **Permits** | | |
| 37-3-0798 | Liddell EW 15 | GDA | 56 | 317877 | 6407170 | Open site | Destroyed | Artefact : 21 | | 101420,102617,104465 |
| | **Contact** | **Recorders** | Mrs.Angela Besant,Insite Heritage Pty Ltd,Insite Heritage Pty Ltd | | | | | **Permits** | 3428 | |
| 37-3-1584 | Ravensworth Open Cut OS-1 | GDA | 56 | 318005 | 6406850 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Ben Churcher | | | | | **Permits** | | |
| 37-3-0509 | ASH13 | AGD | 56 | 320104 | 6406518 | Open site | Destroyed | Artefact : - | | |
| | **Contact** | **Recorders** | Ms.Vanessa Hardy | | | | | **Permits** | 1691 | |
| 37-3-0503 | ASH7 | AGD | 56 | 318245 | 6405418 | Open site | Valid | Artefact : - | | 102139,102617,104465 |
| | **Contact** | **Recorders** | Ms.Vanessa Hardy | | | | | **Permits** | 2783,3436 | |
| 37-3-0530 | Ashton EWA 25 | AGD | 56 | 319418 | 6406709 | Open site | Destroyed | Art (Pigment or Engraved) : - | | 98163 |
| | **Contact** | **Recorders** | Dan Witter | | | | | **Permits** | 1691 | |
| 37-3-1015 | REA143 | GDA | 56 | 318066 | 6406896 | Open site | Destroyed | Artefact : - | | 102617,103364,104465 |

**Report generated by AHIMS Web Service on 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 317800.0 - 320347.0, Northings : 6404784.0 - 6407230.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 59**

This information is not guaranteed to be free from error omission. Heritage NSW and its employees disclaim liability for any act done or omission made on the information and consequences of such acts or omission.

# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115f

Client Service ID : 834806

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| Contact | | Recorders | Mrs.Angela Besant,Umwelt (Australia) Pty Limited - Individual users | | | | | Permits | 3428 | |

**** 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 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 317800.0 - 320347.0, Northings : 6404784.0 - 6407230.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 59**

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115e

Client Service ID : 834812

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-3-1012 | REA140 | GDA | 56 | 317599 | 6407485 | Open site | Destroyed | Artefact : - | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Ms.Alison Lamond | | | | | **Permits** | | |
| 37-3-1566 | Glendell North PAD3 | GDA | 56 | 318253 | 6408957 | Open site | Partially Destroyed | Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,OzArk Environmental an | | | | | **Permits** | | |
| 37-3-1547 | Glendell North OS29 | GDA | 56 | 318291 | 6408381 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Miss.Stephanie Rusden | | | | | **Permits** | | |
| 37-3-1514 | Glendell North IF21 | GDA | 56 | 318328 | 6408936 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Miss.Stephanie Rusden | | | | | **Permits** | | |
| 37-3-0622 | Swamp Creek 5 | GDA | 56 | 318912 | 6407719 | Open site | Destroyed | Artefact : 8, Potential Archaeological Deposit (PAD) : - | | 99019,100895 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users | | | | | **Permits** | 2267 | |
| 37-3-1579 | Bowmans Creek 17 | GDA | 56 | 317781 | 6407742 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Ben Churcher | | | | | **Permits** | | |
| 37-3-1493 | Swamp Creek IF-3 | GDA | 56 | 318805 | 6407330 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,OzArk Environmental an | | | | | **Permits** | | |
| 37-3-1490 | Swamp Creek IF-4 | GDA | 56 | 318805 | 6407340 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,OzArk Environmental an | | | | | **Permits** | | |
| 37-3-0614 | Bowmans Creek 2 | GDA | 56 | 317816 | 6409176 | Open site | Destroyed | Artefact : - | | 99019,100895, 102380 |
| | **Contact** | **Recorders** | Janice Wilson | | | | | **Permits** | 2267 | |
| 37-3-1515 | Glendell North IF20 | GDA | 56 | 318022 | 6409310 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Miss.Stephanie Rusden | | | | | **Permits** | | |
| 37-3-0469 | Bowmans/Swamp Creek Trench 1 | AGD | 56 | 317967 | 6408948 | Open site | Valid | Artefact : - | | 102380 |
| | **Contact** | **Recorders** | Janice Wilson | | | | | **Permits** | 1325 | |
| 37-3-0618 | Swamp Creek 1 | GDA | 56 | 318147 | 6409247 | Open site | Destroyed | Artefact : - | | 99019,100895, 102380 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users | | | | | **Permits** | 2267 | |
| 37-3-0985 | REA89 | GDA | 56 | 317742 | 6409391 | Open site | Destroyed | Artefact : - | | 103364 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,OzArk Environmental and Herita | | | | | **Permits** | | |
| 37-3-1005 | REA124 | GDA | 56 | 317982 | 6408615 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users | | | | | **Permits** | | |
| 37-3-0620 | Swamp Creek 3 | GDA | 56 | 318178 | 6409390 | Open site | Destroyed | Artefact : -, Potential Archaeological Deposit (PAD) : - | | 99019,100895, 102380 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users | | | | | **Permits** | 2267 | |

**Report generated by AHIMS Web Service on 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 316849.0 - 319397.0, Northings : 6407263.0 - 6409709.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 45**

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115e

Client Service ID : 834812

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-3-0619 | Swamp Creek 2 | GDA | 56 | 318327 | 6408928 | Open site | Destroyed | Artefact : -, Potential Archaeological Deposit (PAD) : - | | 99019,100895, 102380 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users | | | | | **Permits** | 2267 | |
| 37-3-1508 | Glendell North OS28 | GDA | 56 | 318611 | 6408397 | Open site | Destroyed | Artefact : - | | 104353 |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,OzArk Environmental an | | | | | **Permits** | | |
| 37-3-1491 | Swamp Creek IF-1 | GDA | 56 | 318640 | 6407727 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Miss.Stephanie Rusden | | | | | **Permits** | | |
| 37-3-1511 | Glendell North IF25 | GDA | 56 | 318341 | 6409244 | Open site | Destroyed | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,OzArk Environmental an | | | | | **Permits** | | |
| 37-3-1570 | Glendell North OS25 | GDA | 56 | 318367 | 6408758 | Open site | Partially Destroyed | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,OzArk Environmental an | | | | | **Permits** | | |
| 37-3-1198 | MOCO OS-10 | GDA | 56 | 317840 | 6409364 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,OzArk Environmental an | | | | | **Permits** | | |
| 37-3-0615 | Bowmans Creek 3 | AGD | 56 | 317884 | 6408740 | Open site | Valid | Artefact : - | | 99019,100895 |
| | **Contact** | **Recorders** | | | | | | **Permits** | 2267 | |
| 37-3-0390 | Upper Hunter Valley Massacre Site | AGD | 56 | 317000 | 6409000 | Open site | Valid | Conflict : - | Massacre | 100865,10222 0,102380 |
| | **Contact** | **Recorders** | Ms.Adrienne Howe-Piening | | | | | **Permits** | | |
| 37-3-1285 | REA395 | GDA | 56 | 317655 | 6407434 | Open site | Destroyed | Artefact : - | | 104465 |
| | **Contact** | **Recorders** | Ms.Nadia Zakrzewski,Ms.Alison Lamond | | | | | **Permits** | | |
| 37-3-1642 | Glendell North IF 30 Cloned | GDA | 56 | 318327 | 6409036 | Open site | Destroyed | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,OzArk Environmental an | | | | | **Permits** | | |
| 37-3-1199 | MOCO OS-11 | GDA | 56 | 318413 | 6408614 | Open site | Destroyed | Artefact : 1 | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,OzArk Environmental an | | | | | **Permits** | | |
| 37-3-1009 | REA131 | GDA | 56 | 318080 | 6408179 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users | | | | | **Permits** | | |
| 37-3-0616 | Bowmans Creek 4 | GDA | 56 | 317685 | 6409678 | Open site | Destroyed | Artefact : - | | 99019,100895, 102380 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users | | | | | **Permits** | 2267 | |
| 37-3-1225 | REA 444 (Tower 31) | GDA | 56 | 317718 | 6409098 | Open site | Destroyed | Artefact : - | | |
| | **Contact** | **Recorders** | Ms.Alison Lamond,Ms.Alison Lamond | | | | | **Permits** | | |
| 37-3-1546 | Glendell North OS30 | GDA | 56 | 318530 | 6408206 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Miss.Stephanie Rusden | | | | | **Permits** | | |
| 37-3-1545 | Glendell North OS31 | GDA | 56 | 318827 | 6407525 | Open site | Partially Destroyed | Artefact : - | | 104353 |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,OzArk Environmental an | | | | | **Permits** | | |

**Report generated by AHIMS Web Service on 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 316849.0 - 319397.0, Northings : 6407263.0 - 6409709.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 45**

This information is not guaranteed to be free from error omission. Heritage NSW and its employees disclaim liability for any act done or omission made on the information and consequences of such acts or omission.

# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115e

Client Service ID : 834812

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-3-1492 | Swamp Creek IF-2 | GDA | 56 | 318807 | 6407327 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,OzArk Environmental an | | | | | **Permits** | | |
| 37-3-1499 | Swamp Creek-OS1 | GDA | 56 | 318819 | 6407299 | Open site | Partially Destroyed | Artefact : - | | 104353 |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,OzArk Environmental an | | | | | **Permits** | | |
| 37-3-1187 | MOCO IF-19 | GDA | 56 | 317195 | 6409045 | Open site | Destroyed | Artefact : 1 | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,OzArk Environmental an | | | | | **Permits** | | |
| 37-3-1188 | MOCO IF-20 | GDA | 56 | 317236 | 6408936 | Open site | Destroyed | Artefact : 1 | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,OzArk Environmental an | | | | | **Permits** | | |
| 37-3-0920 | Ravensworth Underground Mine (RUM) Open Camp Site No. 1 with PAD | GDA | 56 | 317298 | 6408018 | Open site | Partially Destroyed | Artefact : 57, Potential Archaeological Deposit (PAD) : - | | 103364 |
| | **Contact** | **Recorders** | Doctor.Jodie Benton,OzArk Environmental and Heritage Management - Dubbo,Mr.J | | | | | **Permits** | 3465 | |
| 37-3-1011 | REA133 | GDA | 56 | 317656 | 6407681 | Open site | Valid | Artefact : - | | 103364 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users | | | | | **Permits** | | |
| 37-3-1010 | REA132 | GDA | 56 | 317660 | 6407881 | Open site | Destroyed | Artefact : - | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Ms.Alison Lamond | | | | | **Permits** | | |
| 37-3-1510 | Glendell North OS24 | GDA | 56 | 318346 | 6409339 | Open site | Destroyed | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,OzArk Environmental an | | | | | **Permits** | | |
| 37-3-1544 | Glendell North OS32 | GDA | 56 | 317951 | 6407475 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Miss.Stephanie Rusden | | | | | **Permits** | | |
| 37-3-0626 | Swamp Creek 12 | AGD | 56 | 319273 | 6408935 | Open site | Destroyed | Artefact : - | | 99019,100895 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users | | | | | **Permits** | 2267 | |
| 37-3-1284 | REA394 | GDA | 56 | 317569 | 6407558 | Open site | Destroyed | Artefact : - | | |
| | **Contact** | **Recorders** | Ms.Nadia Zakrzewski,Ms.Alison Lamond | | | | | **Permits** | | |
| 37-3-0621 | Swamp Creek 4 | GDA | 56 | 318026 | 6409493 | Open site | Destroyed | Artefact : - | | 99019,100895, 102380 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users | | | | | **Permits** | 2267 | |
| 37-3-1509 | Glendell North OS27 | GDA | 56 | 318588 | 6408562 | Open site | Destroyed | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,OzArk Environmental an | | | | | **Permits** | | |
| 37-3-1498 | Swamp Creek-OS2 | GDA | 56 | 318006 | 6408283 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Ben Churcher | | | | | **Permits** | | |

**** 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 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 316849.0 - 319397.0, Northings : 6407263.0 - 6409709.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 45**

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115d

Client Service ID : 834814

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-3-1221 | REA 448 (Tower 22) | GDA | 56 | 316761 | 6411453 | Open site | Destroyed | Artefact : - | | |
| | **Contact** | **Recorders** | Ms.Alison Lamond,Ms.Alison Lamond | | | | | **Permits** | | |
| 37-3-1565 | Glendell North OS38 | GDA | 56 | 317557 | 6411704 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Miss.Stephanie Rusden | | | | | **Permits** | | |
| 37-3-0761 | Yorks Creek 18 | GDA | 56 | 317712 | 6412158 | Open site | Partially Destroyed | Artefact : 1, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Janice Wilson,OzArk Environmental and Heritage Management - Dubbo,Mr.Thomas | | | | | **Permits** | | |
| 37-3-1524 | Glendell North IF12 | GDA | 56 | 317765 | 6410903 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Miss.Stephanie Rusden | | | | | **Permits** | | |
| 37-3-1548 | Glendell North OS26 | GDA | 56 | 318224 | 6410798 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Miss.Stephanie Rusden | | | | | **Permits** | | |
| 37-3-0744 | York Creek 1 | AGD | 56 | 317334 | 6411165 | Open site | Valid | Artefact : 6 | | 102380 |
| | **Contact** | **Recorders** | Janice Wilson | | | | | **Permits** | | |
| 37-3-0950 | REA33 | GDA | 56 | 317104 | 6411125 | Open site | Destroyed | Artefact : - | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Ms.Alison Lamond | | | | | **Permits** | | |
| 37-3-1567 | Glendell North PAD2 | GDA | 56 | 317371 | 6411106 | Open site | Partially Destroyed | Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,OzArk Environmental an | | | | | **Permits** | | |
| 37-3-1522 | Glendell North IF14 | GDA | 56 | 317752 | 6410825 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Miss.Stephanie Rusden | | | | | **Permits** | | |
| 37-3-1572 | Glendell North OS19 | GDA | 56 | 317790 | 6410020 | Open site | Partially Destroyed | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,OzArk Environmental an | | | | | **Permits** | | |
| 37-3-1576 | Glendell North OS39 | GDA | 56 | 318028 | 6409888 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Miss.Stephanie Rusden | | | | | **Permits** | | |
| 37-3-1506 | Restriction applied. Please contact ahims@environment.nsw.gov.au. | | | | | Open site | Not a Site | | | |
| | **Contact** | **Recorders** | Mr.Scott Franks,Tocomwall Pty Ltd | | | | | **Permits** | | |
| 37-3-0928 | REA4 | GDA | 56 | 316119 | 6412162 | Open site | Destroyed | Artefact : - | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Ms.Alison Lamond | | | | | **Permits** | | |
| 37-3-1224 | REA 445 (Tower 21) | GDA | 56 | 316533 | 6411702 | Open site | Destroyed | Artefact : - | | |
| | **Contact** | **Recorders** | Ms.Alison Lamond,Ms.Alison Lamond | | | | | **Permits** | | |
| 37-3-0752 | York Creek 9 | AGD | 56 | 317579 | 6411121 | Open site | Valid | Artefact : 6 | | 102380 |
| | **Contact** | **Recorders** | Janice Wilson | | | | | **Permits** | | |
| 37-3-1518 | Glendell North IF18 | GDA | 56 | 317723 | 6409918 | Open site | Valid | Artefact : - | | |

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115d

Client Service ID : 834814

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Miss.Stephanie Rusden | | | | | **Permits** | | |
| 37-3-0589 | MG#2 | GDA | 56 | 316950 | 6410359 | Open site | Valid | Artefact : - | | 99021,102380 |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Miss.Stephanie Rusden | | | | | **Permits** | 1982 | |
| 37-3-0759 | York Creek 16 | AGD | 56 | 317721 | 6411306 | Open site | Valid | Artefact : 2 | | |
| | **Contact** | **Recorders** | Janice Wilson | | | | | **Permits** | | |
| 37-3-1552 | Glendell North OS13 | GDA | 56 | 317915 | 6411844 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Miss.Stephanie Rusden | | | | | **Permits** | | |
| 37-3-0617 | Bowmans Creek 5 | GDA | 56 | 318014 | 6409872 | Open site | Destroyed | Artefact : -, Stone Quarry : -, Potential Archaeological Deposit (PAD) : - | | 99019,102380 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users | | | | | **Permits** | | |
| 37-3-0558 | Ashton EWA 96 | AGD | 56 | 317074 | 6410250 | Open site | Destroyed | Artefact : - | | 98163,102617 |
| | **Contact** | **Recorders** | Dan Witter,Ms.Alison Lamond | | | | | **Permits** | 3436 | |
| 37-3-0750 | Yorks Creek 7 | GDA | 56 | 317484 | 6411170 | Open site | Partially Destroyed | Artefact : 18, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | Janice Wilson,OzArk Environmental and Heritage Management - Dubbo,OzArk Envi | | | | | **Permits** | | |
| 37-3-0975 | REA74 | GDA | 56 | 317513 | 6409914 | Open site | Valid | Artefact : - | | 103364 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users | | | | | **Permits** | | |
| 37-3-0749 | York Creek 6 | GDA | 56 | 317501 | 6411813 | Open site | Valid | Artefact : 5 | | |
| | **Contact** | **Recorders** | Janice Wilson,OzArk Environmental and Heritage Management - Dubbo,OzArk Envi | | | | | **Permits** | | |
| 37-3-0745 | York Creek 2 | AGD | 56 | 317471 | 6410921 | Open site | Valid | Artefact : 16 | | 102380 |
| | **Contact** | **Recorders** | Janice Wilson | | | | | **Permits** | | |
| 37-3-1575 | Glendell North IF29 | GDA | 56 | 317613 | 6411755 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Miss.Stephanie Rusden | | | | | **Permits** | | |
| 37-3-0762 | Bowmans Ck 6 | GDA | 56 | 317645 | 6410765 | Open site | Valid | Artefact : 1 | | 102380 |
| | **Contact** | **Recorders** | Janice Wilson | | | | | **Permits** | | |
| 37-3-0976 | REA75 | GDA | 56 | 317484 | 6409831 | Open site | Valid | Artefact : - | | 103364 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users | | | | | **Permits** | | |
| 37-3-1542 | Glendell North OS17 | GDA | 56 | 317850 | 6410521 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Miss.Stephanie Rusden | | | | | **Permits** | | |
| 37-3-1516 | Glendell North IF22 | GDA | 56 | 317984 | 6410954 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Miss.Stephanie Rusden | | | | | **Permits** | | |
| 37-3-1253 | REA438 | GDA | 56 | 317003 | 6410688 | Open site | Destroyed | Artefact : - | | |
| | **Contact** | **Recorders** | Ms.Nadia Zakrzewski,Ms.Alison Lamond | | | | | **Permits** | | |
| 37-3-1239 | REA278 | GDA | 56 | 317240 | 6410956 | Open site | Destroyed | Artefact : - | | |

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115d

Client Service ID : 834814

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| | **Contact** | **Recorders** | Ms.Nadia Zakrzewski,Ms.Alison Lamond | | | | | **Permits** | | |
| 37-3-1563 | Glendell North IF28 | GDA | 56 | 317241 | 6411902 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,OzArk Environmental an | | | | | **Permits** | | |
| 37-3-1503 | Yorks Creek 19 | GDA | 56 | 317369 | 6411237 | Open site | Partially Destroyed | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,OzArk Environmental an | | | | | **Permits** | | |
| 37-3-0747 | Yorks Creek 4 | GDA | 56 | 317373 | 6411322 | Open site | Partially Destroyed | Artefact : 12, Potential Archaeological Deposit (PAD) : - | | 102380 |
| | **Contact** | **Recorders** | Janice Wilson,OzArk Environmental and Heritage Management - Dubbo,Mr.Thomas | | | | | **Permits** | | |
| 37-3-1248 | REA443 (Tower 29) | GDA | 56 | 317598 | 6409776 | Open site | Destroyed | Artefact : - | | |
| | **Contact** | **Recorders** | Ms.Alison Lamond,Ms.Alison Lamond | | | | | **Permits** | | |
| 37-3-1519 | Glendell North IF17 | GDA | 56 | 317777 | 6409943 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Miss.Stephanie Rusden | | | | | **Permits** | | |
| 37-3-1573 | Glendell North OS16 | GDA | 56 | 317599 | 6410970 | Open site | Partially Destroyed | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,OzArk Environmental an | | | | | **Permits** | | |
| 37-3-1521 | Glendell North IF15 | GDA | 56 | 317683 | 6410588 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Miss.Stephanie Rusden | | | | | **Permits** | | |
| 37-3-1523 | Glendell North IF13 | GDA | 56 | 317688 | 6410830 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Miss.Stephanie Rusden | | | | | **Permits** | | |
| 37-3-1155 | MT OWEN ISOLATED FIND2 | GDA | 56 | 317854 | 6411236 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | Ms.Mary-Jean Sutton,Virtus Heritage Pty Ltd - Pottsville | | | | | **Permits** | | |
| 37-3-0974 | REA73 | GDA | 56 | 317344 | 6409979 | Open site | Valid | Artefact : - | | 103364 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users | | | | | **Permits** | | |
| 37-3-0748 | York Creek 5 | GDA | 56 | 317365 | 6411470 | Open site | Valid | Potential Archaeological Deposit (PAD) : -, Artefact : 16 | | |
| | **Contact** | **Recorders** | Janice Wilson,OzArk Environmental and Heritage Management - Dubbo,Miss.Steph | | | | | **Permits** | | |
| 37-3-1512 | Glendell North IF24 | GDA | 56 | 318253 | 6411466 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Miss.Stephanie Rusden | | | | | **Permits** | | |
| 37-3-1237 | REA 276 | GDA | 56 | 316513 | 6411832 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Ms.Nadia Zakrzewski | | | | | **Permits** | | |
| 37-3-1540 | Glendell North OS20 | GDA | 56 | 317856 | 6409957 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Miss.Stephanie Rusden | | | | | **Permits** | | |
| 37-3-0462 | Davies Site 5, same as 37-3-0193 | AGD | 56 | 316000 | 6411500 | Open site | Valid | Artefact : 60 | | 100666 |

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| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users | | | | | **Permits** | | |
| 37-3-1527 | Glendell North IF9 | GDA | 56 | 316545 | 6411891 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Miss.Stephanie Rusden | | | | | **Permits** | | |
| 37-3-1551 | Glendell North OS14 | GDA | 56 | 317705 | 6411820 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Miss.Stephanie Rusden | | | | | **Permits** | | |
| 37-3-1574 | Glendell North OS34 | GDA | 56 | 317447 | 6411053 | Open site | Partially Destroyed | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,OzArk Environmental an | | | | | **Permits** | | |
| 37-3-1223 | REA 446 (Tower 23) | GDA | 56 | 316985 | 6411217 | Open site | Destroyed | Artefact : - | | |
| | **Contact** | **Recorders** | Ms.Alison Lamond,Ms.Alison Lamond | | | | | **Permits** | | |
| 37-3-0756 | York Creek 13 | AGD | 56 | 318246 | 6411209 | Open site | Valid | Artefact : 2 | | |
| | **Contact** | **Recorders** | Janice Wilson | | | | | **Permits** | | |
| 37-3-1541 | Glendell North OS18 | GDA | 56 | 317852 | 6410274 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Miss.Stephanie Rusden | | | | | **Permits** | | |
| 37-3-0758 | York Creek 15 | AGD | 56 | 317743 | 6411011 | Open site | Valid | Artefact : 7 | | 102380 |
| | **Contact** | **Recorders** | Janice Wilson | | | | | **Permits** | | |
| 37-3-0588 | MG#1 | AGD | 56 | 317105 | 6410166 | Open site | Destroyed | Artefact : - | | 99021,100889,102380,103186 |
| | **Contact** | **Recorders** | AECOM Australia Pty Ltd - Sydney | | | | | **Permits** | 1982,2727,2728 | |
| 37-3-1564 | Glendell North IF27 | GDA | 56 | 317257 | 6411850 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,OzArk Environmental an | | | | | **Permits** | | |
| 37-3-0795 | Newdell Junction (NJ1) | GDA | 56 | 315966 | 6411656 | Open site | Valid | Artefact : 10 | | |
| | **Contact** | **Recorders** | Mr.Lennard Roberts | | | | | **Permits** | 3124 | |
| 37-3-0005 | Costain; | AGD | 56 | 315881 | 6410728 | Open site | Valid | Artefact : - | Open Camp Site | |
| | **Contact** | **Recorders** | ASRSYS | | | | | **Permits** | | |
| 37-3-0193 | Telecom site 5; same as 37-3-0462 | AGD | 56 | 316000 | 6411500 | Open site | Valid | Artefact : - | Open Camp Site | 2032,100666,103364 |
| | **Contact** | **Recorders** | S Davies,Davies Heritage Consultants Pty Ltd | | | | | **Permits** | | |
| 37-3-0590 | MG#3 | GDA | 56 | 316458 | 6410968 | Open site | Valid | Artefact : - | | 99021,102380 |
| | **Contact** | **Recorders** | David Gordon | | | | | **Permits** | 1982 | |
| 37-3-1238 | REA277 | GDA | 56 | 316732 | 6411403 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Ms.Nadia Zakrzewski | | | | | **Permits** | | |
| 37-3-1550 | Glendell North OS15 | GDA | 56 | 317055 | 6412013 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Miss.Stephanie Rusden | | | | | **Permits** | | |
| 37-3-0960 | REA58 | GDA | 56 | 317580 | 6410397 | Open site | Valid | Artefact : - | | 103364 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users | | | | | **Permits** | | |

**Report generated by AHIMS Web Service on 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 315250.0 - 318386.0, Northings : 6409755.0 - 6412191.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 67**

This information is not guaranteed to be free from error omission. Heritage NSW and its employees disclaim liability for any act done or omission made on the information and consequences of such acts or omission.

# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115d

Client Service ID : 834814

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-3-0746 | York Creek 3 | AGD | 56 | 317639 | 6410817 | Open site | Valid | Artefact : 17 | | 102380 |
| | **Contact** | **Recorders** | Janice Wilson | | | | | **Permits** | | |
| 37-3-0772 | Bowmans Ck 16 | GDA | 56 | 316359 | 6411486 | Open site | Valid | Art (Pigment or Engraved) : 1 | | |
| | **Contact** | **Recorders** | Janice Wilson | | | | | **Permits** | | |
| 37-3-1156 | MT OWEN ISOLATED FIND1 | GDA | 56 | 318001 | 6410455 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Ms.Mary-Jean Sutton,Mis | | | | | **Permits** | | |
| 37-3-1525 | Glendell North IF11 | GDA | 56 | 317221 | 6411282 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Miss.Stephanie Rusden | | | | | **Permits** | | |

**** 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 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 315250.0 - 318386.0, Northings : 6409755.0 - 6412191.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 67**

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115c

Client Service ID : 834816

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-3-0690 | G13, Glendell | GDA | 56 | 314455 | 6413170 | Open site | Destroyed | Artefact : 7 | | |
| | **Contact** T Russell | **Recorders** | Rex Silcox,OzArk Environmental and Heritage Management - Dubbo,Mr.Ben Churcl | | | | | **Permits** | | |
| 37-3-0452 | LID3 | AGD | 56 | 315568 | 6414300 | Open site | Partially Destroyed | Artefact : - | | 100666,100886 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users | | | | | **Permits** | 3765 | |
| 37-3-1252 | REA439 | GDA | 56 | 315891 | 6412396 | Open site | Destroyed | Artefact : - | | |
| | **Contact** | **Recorders** | Ms.Alison Lamond,Ms.Alison Lamond | | | | | **Permits** | | |
| 37-3-1530 | Glendell North IF6 | GDA | 56 | 315966 | 6412883 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Miss.Stephanie Rusden | | | | | **Permits** | | |
| 37-3-0769 | Bowmans Ck 14 | GDA | 56 | 316413 | 6414370 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | Janice Wilson | | | | | **Permits** | | |
| 37-3-0341 | Rail Facility 2 | AGD | 56 | 314450 | 6412150 | Open site | Valid | Artefact : - | Isolated Find | |
| | **Contact** | **Recorders** | Mr.Matthew Barber | | | | | **Permits** | | |
| 37-3-1169 | LIDEE - IF2 | GDA | 56 | 315500 | 6413147 | Open site | Destroyed | Artefact : 1 | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Nicholas James Harro | | | | | **Permits** | | |
| 37-3-0688 | G12 | AGD | 56 | 315700 | 6412500 | Open site | Valid | Artefact : - | | |
| | **Contact** T Russell | **Recorders** | Rex Silcox | | | | | **Permits** | | |
| 37-3-0770 | Bowmans Ck 11 | GDA | 56 | 315824 | 6412493 | Open site | Valid | Artefact : 50 | | |
| | **Contact** | **Recorders** | Janice Wilson | | | | | **Permits** | | |
| 37-3-0686 | Bowmans Ck 13 | AGD | 56 | 315877 | 6412751 | Open site | Valid | Artefact : 5 | | |
| | **Contact** T Russell | **Recorders** | Umwelt (Australia) Pty Limited - Individual users | | | | | **Permits** | | |
| 37-3-0768 | Bowmans Ck_13 | GDA | 56 | 315982 | 6412940 | Open site | Valid | Artefact : 5 | | |
| | **Contact** | **Recorders** | Janice Wilson | | | | | **Permits** | | |
| 37-3-1137 | LID ES2 | GDA | 56 | 316154 | 6413852 | Open site | Destroyed | Artefact : 2 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Miss.Nicola Roche,Mr.Nicholas Ja | | | | | **Permits** | 3765 | |
| 37-3-1165 | LIDEE OS1 duplicate of 37-3-1159 and 37-3-1162 | GDA | 56 | 315444 | 6413001 | Open site | Deleted | Artefact : 1 | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo | | | | | **Permits** | | |
| 37-3-0427 | LID29 | AGD | 56 | 314310 | 6413400 | Open site | Destroyed | Artefact : - | | 100666,100886 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users | | | | | **Permits** | 1443,2348 | |
| 37-3-1261 | REA426 | GDA | 56 | 314004 | 6412647 | Open site | Partially Destroyed | Artefact : - | | |
| | **Contact** | **Recorders** | Ms.Nadia Zakrzewski,Ms.Alison Lamond | | | | | **Permits** | | |
| 37-3-0491 | NARDELL N2 | AGD | 56 | 314000 | 6412100 | Open site | Valid | Artefact : - | | 103364 |
| | **Contact** | **Recorders** | Ray Fife,Laurie Perry | | | | | **Permits** | | |
| 37-3-0464 | LID32 | AGD | 56 | 314400 | 6412800 | Open site | Destroyed | Artefact : - | | 100666,100886 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users | | | | | **Permits** | 1443,2348 | |

**Report generated by AHIMS Web Service on 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 313957.0 - 316507.0, Northings : 6412224.0 - 6414670.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 55**

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115c

Client Service ID : 834816

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-3-0436 | LID18 | AGD | 56 | 314485 | 6413799 | Open site | Destroyed | Artefact : - | | 100666,100886 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users | | | | | **Permits** | 1577 | |
| 37-3-0926 | REA2 | GDA | 56 | 314754 | 6412273 | Open site | Destroyed | Artefact : - | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Ms.Alison Lamond | | | | | **Permits** | | |
| 37-3-0419 | rav east 24 | GDA | 56 | 315860 | 6413234 | Open site | Destroyed | Artefact : - | Isolated Find | |
| | **Contact** | **Recorders** | Adam Ford,OzArk Environmental and Heritage Management - Dubbo,Mr.Ben Churc | | | | | **Permits** | 3765 | |
| 37-3-1151 | LID 35 | GDA | 56 | 315332 | 6413283 | Open site | Destroyed | Artefact : 1 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Miss.Nicola Roche,Mr.Nicholas Ja | | | | | **Permits** | 3765 | |
| 37-3-1160 | LIDEE - IF1 duplicate of 37-3-1163 and 37-3-1164 | GDA | 56 | 315395 | 6413071 | Open site | Destroyed | Artefact : 1 | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Nicholas James Harro | | | | | **Permits** | 3765 | |
| 37-3-1159 | LIDEE-OS1 duplicate of 37-3-1162 and 37-3-1165 | GDA | 56 | 315444 | 6413001 | Open site | Destroyed | Artefact : 1 | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Nicholas James Harro | | | | | **Permits** | 3765 | |
| 37-3-1630 | HVOCP TR300-IF1 | GDA | 56 | 313958 | 6413133 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Ms.Morgan (emm consulting) Wilcox,EMM Consulting Pty Ltd - Newcastle | | | | | **Permits** | | |
| 37-3-0463 | LID33 | AGD | 56 | 314795 | 6412208 | Open site | Destroyed | Artefact : - | | 100666,100886 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users | | | | | **Permits** | 2741,2744,3765 | |
| 37-3-1168 | LIDEE - OS2 | GDA | 56 | 315467 | 6413555 | Open site | Destroyed | Artefact : 1 | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Nicholas James Harro | | | | | **Permits** | 3765 | |
| 37-3-1502 | Bowmans Creek 6 | GDA | 56 | 315509 | 6412710 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Miss.Philippa Sokol | | | | | **Permits** | | |
| 37-3-1166 | LIDEE - IF3 | GDA | 56 | 315930 | 6413149 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo | | | | | **Permits** | | |
| 37-3-1150 | LID 34 | GDA | 56 | 316379 | 6413975 | Open site | Partially Destroyed | Artefact : 3 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Miss.Nicola Roche | | | | | **Permits** | 3765 | |
| 37-3-0441 | LID13 | AGD | 56 | 313954 | 6414442 | Open site | Destroyed | Artefact : - | | 100666,100886 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users | | | | | **Permits** | 1577 | |
| 37-3-0426 | LID30 | AGD | 56 | 314045 | 6413173 | Open site | Destroyed | Artefact : - | | 100666,100886 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users | | | | | **Permits** | 1443,2348 | |
| 37-3-1152 | LID 36 | GDA | 56 | 315653 | 6413108 | Open site | Destroyed | Artefact : 1 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Miss.Nicola Roche,Mr.Nicholas Ja | | | | | **Permits** | 3765 | |
| 37-3-0430 | LID27 | GDA | 56 | 315654 | 6413994 | Open site | Destroyed | Artefact : - | | 100666,100886 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,OzArk Environmental and Herita | | | | | **Permits** | 3765 | |
| 37-3-1549 | Glendell North OS8 | GDA | 56 | 316386 | 6412999 | Open site | Valid | Artefact : - | | |

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115c

Client Service ID : 834816

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Miss.Stephanie Rusden | | | | | **Permits** | | |
| 37-3-1571 | Glendell North OS6 | GDA | 56 | 316443 | 6413081 | Open site | Partially Destroyed | Artefact : -, Potential Archaeological Deposit (PAD) : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,OzArk Environmental an | | | | | **Permits** | | |
| 37-3-0925 | REA1 | GDA | 56 | 315410 | 6412344 | Open site | Destroyed | Artefact : - | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Ms.Alison Lamond | | | | | **Permits** | | |
| 37-3-0428 | LID31 | AGD | 56 | 314256 | 6413168 | Open site | Destroyed | Artefact : - | | 100666,100886 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users | | | | | **Permits** | 1443,2348 | |
| 37-3-0771 | Bowmans Ck 15 | GDA | 56 | 315825 | 6412677 | Open site | Valid | Artefact : 55 | | |
| | **Contact** | **Recorders** | Janice Wilson | | | | | **Permits** | | |
| 37-3-1163 | LIDEE-IF1 duplicate of 37-3-1160 and 37-3-1164 | GDA | 56 | 315394 | 6413070 | Open site | Deleted | Artefact : 1 | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo | | | | | **Permits** | | |
| 37-3-1164 | LIDEE IF 1 duplicate of 37-3-1160 and 37-3-1163 | GDA | 56 | 315394 | 6413070 | Open site | Deleted | Artefact : 1 | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo | | | | | **Permits** | | |
| 37-3-1167 | LIDSE - OS1 | GDA | 56 | 313969 | 6413561 | Open site | Destroyed | Artefact : 1 | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Nicholas James Harro | | | | | **Permits** | 3765 | |
| 37-3-0292 | Nard 8; same as 37-3-0560 | GDA | 56 | 313998 | 6412486 | Open site | Valid | Artefact : - | Open Camp Site | |
| | **Contact** | **Recorders** | Iain Stuart,OzArk Environmental and Heritage Management - Dubbo,Miss.Stephani | | | | | **Permits** | | |
| 37-3-0437 | LID17 | AGD | 56 | 314478 | 6413980 | Open site | Destroyed | Artefact : - | | 100666,100886 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users | | | | | **Permits** | 1577 | |
| 37-3-1555 | Glendell North OS10 | GDA | 56 | 315557 | 6412542 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Miss.Stephanie Rusden | | | | | **Permits** | | |
| 37-3-1556 | Glendell North OS9 | GDA | 56 | 315698 | 6412992 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Miss.Stephanie Rusden | | | | | **Permits** | | |
| 37-3-0453 | LID2 | AGD | 56 | 315874 | 6414199 | Open site | Valid | Artefact : - | | 100666,100886 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users | | | | | **Permits** | | |
| 37-3-1136 | LID ES1 | GDA | 56 | 316057 | 6414006 | Open site | Partially Destroyed | Artefact : 3 | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,Miss.Nicola Roche,Mr.Nicholas Ja | | | | | **Permits** | 3765 | |
| 37-3-1536 | Glendell North OS7 | GDA | 56 | 316412 | 6413195 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Miss.Stephanie Rusden | | | | | **Permits** | | |
| 37-3-1561 | Glendell North ST1 | GDA | 56 | 316124 | 6412405 | Open site | Valid | Modified Tree (Carved or Scarred) : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Miss.Stephanie Rusden | | | | | **Permits** | | |

**Report generated by AHIMS Web Service on 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 313957.0 - 316507.0, Northings : 6412224.0 - 6414670.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 55**

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115c

Client Service ID : 834816

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-3-1349 | REA351 | GDA | 56 | 316139 | 6412234 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Ms.Nadia Zakrzewski | | | | | **Permits** | | |
| 37-3-0560 | Nard 8, same as 37-3-0292 | GDA | 56 | 313998 | 6412486 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Iain Stuart,OzArk Environmental and Heritage Management - Dubbo,Miss.Stephani | | | | | **Permits** | | |
| 37-3-0037 | Ravensworth;Ravensworth A; | GDA | 56 | 314769 | 6412718 | Open site | Destroyed | Artefact : - | Open Camp Site | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Ben Churcher,Mr.Nicl | | | | | **Permits** | 3765 | |
| 37-3-1529 | Glendell North IF7 | GDA | 56 | 315514 | 6412657 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Miss.Stephanie Rusden | | | | | **Permits** | | |
| 37-3-0767 | Bowmans Ck 12 | GDA | 56 | 315581 | 6412437 | Open site | Valid | Artefact : 2 | | 103364 |
| | **Contact** | **Recorders** | Janice Wilson | | | | | **Permits** | | |
| 37-3-1162 | LIDEE - OS1 duplicate of 37-3-1165 and 37-3-1159 | GDA | 56 | 315444 | 6413001 | Open site | Deleted | Artefact : 1 | | |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo | | | | | **Permits** | | |

**** 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 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 313957.0 - 316507.0, Northings : 6412224.0 - 6414670.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 55**

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115b

Client Service ID : 834818

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-3-0468 | LID 7 [Duplicate copy see 37-3-0447] | AGD | 56 | 313560 | 6416510 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users | | | | | **Permits** | | |
| 37-3-0434 | LID20 | AGD | 56 | 313699 | 6414480 | Open site | Destroyed | Artefact : - | | 100666,100886 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users | | | | | **Permits** | 1577 | |
| 37-3-0454 | LID1 | AGD | 56 | 314629 | 6414731 | Open site | Destroyed | Artefact : - | | 100158,100666,100886 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users | | | | | **Permits** | 1443 | |
| 37-3-0445 | LID9 | AGD | 56 | 313382 | 6416706 | Open site | Destroyed | Artefact : - | | 100666,100886 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users | | | | | **Permits** | 1301 | |
| 37-3-0447 | LID7 | AGD | 56 | 313563 | 6416505 | Open site | Destroyed | Artefact : - | | 100666,100886 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users | | | | | **Permits** | 1301 | |
| 37-3-0439 | LID15 | AGD | 56 | 314486 | 6414563 | Open site | Destroyed | Artefact : - | | 100666,100886 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users | | | | | **Permits** | 1577 | |
| 37-3-0440 | LID14 | AGD | 56 | 313965 | 6414721 | Open site | Destroyed | Artefact : - | | 100666,100886 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users | | | | | **Permits** | 1577 | |
| 37-3-0443 | LID11 | AGD | 56 | 313482 | 6414530 | Open site | Destroyed | Artefact : - | | 100666,100886 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users | | | | | **Permits** | 1577 | |
| 37-3-0438 | LID16 | AGD | 56 | 314149 | 6414592 | Open site | Destroyed | Artefact : - | | 100666,100886 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users | | | | | **Permits** | 1577 | |
| 37-3-0444 | LID10 | AGD | 56 | 313379 | 6416469 | Open site | Destroyed | Artefact : - | | 100666,100886 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users | | | | | **Permits** | 1301 | |
| 37-3-0446 | LID8 | AGD | 56 | 313534 | 6416723 | Open site | Destroyed | Artefact : - | | 100666,100886 |
| | **Contact** | **Recorders** | Umwelt (Australia) Pty Limited - Individual users | | | | | **Permits** | 1301 | |

**** 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 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 312970.0 - 315520.0, Northings : 6414640.0 - 6417150.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 11**

This information is not guaranteed to be free from error omission. Heritage NSW and its employees disclaim liability for any act done or omission made on the information and consequences of such acts or omission.

# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115a

Client Service ID : 834819

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-3-1462 | HCR064IF | GDA | 56 | 312805 | 6418759 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Tocomwall Pty Ltd | | | | | **Permits** | | |
| 37-3-1473 | HCR103IF | GDA | 56 | 312053 | 6419198 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Tocomwall Pty Ltd | | | | | **Permits** | | |
| 37-3-1467 | HCR0070AS | GDA | 56 | 312853 | 6418481 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Tocomwall Pty Ltd | | | | | **Permits** | | |
| 37-2-5546 | HCR112IF | GDA | 56 | 311895 | 6419025 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Tocomwall Pty Ltd | | | | | **Permits** | | |
| 37-3-1477 | HCR107IF | GDA | 56 | 311966 | 6419113 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Tocomwall Pty Ltd | | | | | **Permits** | | |
| 37-3-1466 | HCR069IF | GDA | 56 | 312837 | 6418609 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Tocomwall Pty Ltd | | | | | **Permits** | | |
| 37-3-1454 | HCR055IF | GDA | 56 | 313056 | 6419354 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Tocomwall Pty Ltd | | | | | **Permits** | | |
| 37-3-1459 | HCR059IF | GDA | 56 | 312956 | 6419125 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Tocomwall Pty Ltd | | | | | **Permits** | | |
| 37-3-0711 | SP2 (Liddle Mine) | AGD | 56 | 313193 | 6417529 | Open site | Valid | Artefact : 19 | | 100354 |
| | **Contact** Searle | **Recorders** | Umwelt (Australia) Pty Limited - Individual users | | | | | **Permits** | | |
| 37-2-2214 | AN4 (Energy Australia) | GDA | 56 | 311670 | 6418816 | Open site | Valid | Artefact : 2 | | 100354 |
| | **Contact** Searle | **Recorders** | Umwelt (Australia) Pty Limited - Individual users | | | | | **Permits** | | |
| 37-3-1479 | HCR108IF | GDA | 56 | 311967 | 6419112 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Tocomwall Pty Ltd | | | | | **Permits** | | |
| 37-3-1483 | HCR095AIF | GDA | 56 | 313176 | 6419579 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Tocomwall Pty Ltd | | | | | **Permits** | | |
| 37-3-1205 | Hillcrest 8 | GDA | 56 | 312776 | 6418634 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | Mr.Nicholas James Harrop | | | | | **Permits** | | |
| 37-3-1461 | HCR061AS | GDA | 56 | 312772 | 6418950 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Tocomwall Pty Ltd | | | | | **Permits** | | |
| 37-3-1450 | HCR051AS | GDA | 56 | 313501 | 6419378 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Tocomwall Pty Ltd | | | | | **Permits** | | |
| 37-3-1488 | HCR121AS | GDA | 56 | 312439 | 6419438 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Tocomwall Pty Ltd | | | | | **Permits** | | |
| 37-3-1476 | HCR021IF | GDA | 56 | 312440 | 6419438 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Tocomwall Pty Ltd | | | | | **Permits** | | |
| 37-3-1486 | HCR098IF | GDA | 56 | 312030 | 6419420 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Tocomwall Pty Ltd | | | | | **Permits** | | |

**Report generated by AHIMS Web Service on 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 311359.0 - 313910.0, Northings : 6417191.0 - 6419637.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 73**

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115a

Client Service ID : 834819

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-3-1469 | HCR071IF | GDA | 56 | 312679 | 6418867 | Open site | Valid | Artefact : - | | |
| Contact | Recorders | Tocomwall Pty Ltd | | | | | | Permits | | |
| 37-3-1463 | HCR065IF | GDA | 56 | 312797 | 6418759 | Open site | Valid | Artefact : - | | |
| Contact | Recorders | Tocomwall Pty Ltd | | | | | | Permits | | |
| 37-3-1464 | HCR063IF | GDA | 56 | 312804 | 6418761 | Open site | Valid | Artefact : - | | |
| Contact | Recorders | Tocomwall Pty Ltd | | | | | | Permits | | |
| 37-3-1465 | HCR067IF | GDA | 56 | 312807 | 6418707 | Open site | Valid | Artefact : - | | |
| Contact | Recorders | Tocomwall Pty Ltd | | | | | | Permits | | |
| 37-3-0192 | Telecom site 4; | AGD | 56 | 312800 | 6417900 | Open site | Valid | Artefact : - | Isolated Find | 2032,103038 |
| Contact | Recorders | S Davies,Davies Heritage Consultants Pty Ltd | | | | | | Permits | | |
| 37-3-1451 | HCR053AS | GDA | 56 | 312976 | 6418424 | Open site | Valid | Artefact : - | | |
| Contact | Recorders | Tocomwall Pty Ltd | | | | | | Permits | | |
| 37-3-1452 | HCR054IF | GDA | 56 | 312959 | 6419367 | Open site | Valid | Artefact : - | | |
| Contact | Recorders | Tocomwall Pty Ltd | | | | | | Permits | | |
| 37-3-1435 | HCR030AS | GDA | 56 | 313347 | 6419602 | Open site | Valid | Artefact : - | | |
| Contact | Recorders | Tocomwall Pty Ltd | | | | | | Permits | | |
| 37-3-0455 | SP3 | GDA | 56 | 313596 | 6417672 | Open site | Destroyed | Artefact : - | | 100886 |
| Contact | Recorders | Umwelt (Australia) Pty Limited - Individual users,Umwelt (Australia) Pty Limited - | | | | | | Permits | 2896 | |
| 37-2-5549 | HCR115IF | GDA | 56 | 311525 | 6419505 | Open site | Valid | Artefact : - | | |
| Contact | Recorders | Tocomwall Pty Ltd | | | | | | Permits | | |
| 37-2-0543 | Telecom site 3; | AGD | 56 | 311600 | 6418700 | Open site | Valid | Artefact : - | Open Camp Site | 2032,103038 |
| Contact | Recorders | S Davies,Davies Heritage Consultants Pty Ltd | | | | | | Permits | | |
| 37-2-5548 | HRC114AS | GDA | 56 | 311814 | 6418947 | Open site | Valid | Artefact : - | | |
| Contact | Recorders | Tocomwall Pty Ltd | | | | | | Permits | | |
| 37-3-1425 | HCR018IF | GDA | 56 | 312486 | 6419515 | Open site | Valid | Artefact : - | | |
| Contact | Recorders | Tocomwall Pty Ltd | | | | | | Permits | | |
| 37-3-1204 | hillcrest 2 | GDA | 56 | 312928 | 6419360 | Open site | Valid | Artefact : 1 | | |
| Contact | Recorders | Mr.Nicholas James Harrop | | | | | | Permits | | |
| 37-3-1203 | hillcrest 1 | GDA | 56 | 313030 | 6419269 | Open site | Valid | Artefact : 1 | | |
| Contact | Recorders | Mr.Nicholas Harrop | | | | | | Permits | | |
| 37-3-0456 | SP2 | GDA | 56 | 313298 | 6417709 | Open site | Destroyed | Artefact : - | | 100886 |
| Contact | Recorders | Umwelt (Australia) Pty Limited - Individual users,Umwelt (Australia) Pty Limited - | | | | | | Permits | 2896 | |
| 37-3-1427 | HCR020IF | GDA | 56 | 312439 | 6419438 | Open site | Valid | Artefact : - | | |
| Contact | Recorders | Tocomwall Pty Ltd | | | | | | Permits | | |
| 37-3-1481 | HCR110IF | GDA | 56 | 311936 | 6419069 | Open site | Valid | Artefact : - | | |
| Contact | Recorders | Tocomwall Pty Ltd | | | | | | Permits | | |

**Report generated by AHIMS Web Service on 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 311359.0 - 313910.0, Northings : 6417191.0 - 6419637.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 73**

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115a

Client Service ID : 834819

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-3-1482 | HCR111IF | GDA | 56 | 311946 | 6419035 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Tocomwall Pty Ltd | | | | | **Permits** | | |
| 37-3-1495 | Hillcrest 23 | GDA | 56 | 311998 | 6419158 | Open site | Valid | Artefact : 1 | | 103538 |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Mr.Ben Churcher | | | | | **Permits** | | |
| 37-3-1471 | HCR100IF | GDA | 56 | 312043 | 6419260 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Tocomwall Pty Ltd | | | | | **Permits** | | |
| 37-3-0710 | Site cAN2 (Liddle Mine) | AGD | 56 | 313116 | 6417624 | Open site | Valid | Artefact : 8 | | 100354 |
| | **Contact** Searle | **Recorders** | Umwelt (Australia) Pty Limited - Individual users | | | | | **Permits** | | |
| 37-3-1455 | HRC057AS | GDA | 56 | 313048 | 6419288 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Tocomwall Pty Ltd | | | | | **Permits** | | |
| 37-3-1468 | HCR068IF | GDA | 56 | 312802 | 6418670 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Tocomwall Pty Ltd | | | | | **Permits** | | |
| 37-3-1460 | HCR066IF | GDA | 56 | 312807 | 6418709 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Tocomwall Pty Ltd | | | | | **Permits** | | |
| 37-3-1409 | Liddell Muddle IF1 | GDA | 56 | 313598 | 6419226 | Open site | Valid | Artefact : - | | 103769 |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Miss.Philippa Sokol | | | | | **Permits** | | |
| 37-3-1475 | HCR105IF | GDA | 56 | 312004 | 6419166 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Tocomwall Pty Ltd | | | | | **Permits** | | |
| 37-3-1208 | Hillcrest 14 | GDA | 56 | 313152 | 6419381 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Ben Churcher | | | | | **Permits** | | |
| 37-3-1485 | HCR096IF | GDA | 56 | 313176 | 6419580 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Tocomwall Pty Ltd | | | | | **Permits** | | |
| 37-3-1209 | Hillcrest 15 | GDA | 56 | 313224 | 6419403 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Mr.Ben Churcher | | | | | **Permits** | | |
| 37-3-1457 | HCR062IF | GDA | 56 | 312753 | 6418856 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Tocomwall Pty Ltd | | | | | **Permits** | | |
| 37-3-1489 | HCR040AS | GDA | 56 | 313078 | 6419482 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Tocomwall Pty Ltd | | | | | **Permits** | | |
| 37-3-1472 | HCR102IF | GDA | 56 | 312050 | 6419212 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Tocomwall Pty Ltd | | | | | **Permits** | | |
| 37-3-1456 | HCR058IF | GDA | 56 | 312968 | 6419139 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Tocomwall Pty Ltd | | | | | **Permits** | | |
| 37-3-1402 | Liddell Mountain Block OS1 | GDA | 56 | 313477 | 6418480 | Open site | Valid | Artefact : - | | 103769 |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Miss.Philippa Sokol | | | | | **Permits** | | |
| 37-3-1426 | HCR019IF | GDA | 56 | 312440 | 6419441 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Tocomwall Pty Ltd | | | | | **Permits** | | |

**Report generated by AHIMS Web Service on 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 311359.0 - 313910.0, Northings : 6417191.0 - 6419637.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 73**

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115a

Client Service ID : 834819

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-2-2215 | AN5 | GDA | 56 | 311748 | 6419063 | Open site | Valid | Artefact : 3 | | 100354 |
| | **Contact** Searle | **Recorders** | Umwelt (Australia) Pty Limited - Individual users,OzArk Environmental and Herita | | | | | **Permits** | | |
| 37-2-5547 | HCR113AS | GDA | 56 | 311878 | 6419009 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Tocomwall Pty Ltd | | | | | **Permits** | | |
| 37-3-1480 | HCR109IF | GDA | 56 | 311936 | 6419069 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Tocomwall Pty Ltd | | | | | **Permits** | | |
| 37-3-1474 | HCR104IF | GDA | 56 | 312023 | 6419189 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Tocomwall Pty Ltd | | | | | **Permits** | | |
| 37-3-1487 | HCR099IF | GDA | 56 | 312036 | 6419290 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Tocomwall Pty Ltd | | | | | **Permits** | | |
| 37-3-1484 | HCR095BIF | GDA | 56 | 313177 | 6419575 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Tocomwall Pty Ltd | | | | | **Permits** | | |
| 37-3-1401 | Liddell Mountain Block OS2 | GDA | 56 | 313240 | 6418444 | Open site | Valid | Artefact : - | | 103769 |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,Miss.Philippa Sokol | | | | | **Permits** | | |
| 37-3-1201 | DR-0S1 | GDA | 56 | 312779 | 6418157 | Open site | Valid | Artefact : 1 | | |
| | **Contact** | **Recorders** | Mr.Nicholas James Harrop | | | | | **Permits** | | |
| 37-3-1470 | HCR101IF | GDA | 56 | 312050 | 6419219 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Tocomwall Pty Ltd | | | | | **Permits** | | |
| 37-3-1458 | HCR060IF | GDA | 56 | 312959 | 6419062 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Tocomwall Pty Ltd | | | | | **Permits** | | |
| 37-3-0709 | AN1 (Liddell Mine) | AGD | 56 | 312884 | 6417959 | Open site | Valid | Artefact : 1 | | 100354 |
| | **Contact** Searle | **Recorders** | Umwelt (Australia) Pty Limited - Individual users | | | | | **Permits** | | |
| 37-3-1449 | HCR052IF | GDA | 56 | 313299 | 6418942 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Tocomwall Pty Ltd | | | | | **Permits** | | |
| 37-3-1448 | HCR050IF | GDA | 56 | 313488 | 6419426 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Tocomwall Pty Ltd | | | | | **Permits** | | |
| 37-3-1447 | HCR049IF | GDA | 56 | 313521 | 6419547 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Tocomwall Pty Ltd | | | | | **Permits** | | |
| 37-3-1408 | Liddell Muddle OS1 | GDA | 56 | 313636 | 6419449 | Open site | Valid | Artefact : - | | 103769 |
| | **Contact** | **Recorders** | OzArk Environmental and Heritage Management - Dubbo,OzArk Environmental an | | | | | **Permits** | | |
| 37-2-2213 | AN3 (Energy Australia) | GDA | 56 | 311726 | 6418781 | Open site | Valid | Artefact : 33 | | 100354 |
| | **Contact** Searle | **Recorders** | Umwelt (Australia) Pty Limited - Individual users | | | | | **Permits** | | |
| 37-3-1478 | HCR106IF | GDA | 56 | 311982 | 6419138 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Tocomwall Pty Ltd | | | | | **Permits** | | |
| 37-3-1453 | HCR056IF | GDA | 56 | 313139 | 6419250 | Open site | Valid | Artefact : - | | |
| | **Contact** | **Recorders** | Tocomwall Pty Ltd | | | | | **Permits** | | |

**Report generated by AHIMS Web Service on 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 311359.0 - 313910.0, Northings : 6417191.0 - 6419637.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 73**

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# AHIMS Web Services (AWS)

## Extensive search - Site list report

Your Ref/PO Number : 23115a

Client Service ID : 834819

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|---|---|---|---|---|---|---|---|---|---|---|
| 37-3-1202 | DR-IF1 | GDA | 56 | 312853 | 6418045 | Open site | Valid | Artefact : 1 | | |

**Contact** **Recorders** Mr.Nicholas James Harrop **Permits**

**** 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 31/10/2023 for Jenni Bate for the following area at Datum :GDA, Zone : 56, Eastings : 311359.0 - 313910.0, Northings : 6417191.0 - 6419637.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 73**

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# Appendix H: Project Updates

| | |
|---|---|
| **From:** | rebecca@apexarchaeology.com.au |
| **To:** | "undisclosed recipients" |
| **Bcc:** | admin@ungooroo.com.au; aga.services@hotmail.com; alierafrenchtrading@outlook.com; amandahickey@live.com.au; cacatua4service@tpg.com.au; cazadirect@live.com; ceo@hvabcorp.org.au; ceo@wanaruahlandcouncil.com.au; corroboreecorp@outlook.com; daveyhorton69@gmail.com; deckavale@hotmail.com; didgengunawalclan@yahoo.com.au; dontminemeay@gmail.com; ethan3trewlynn@gmail.com; gamila_roi@yahoo.com.au; Gunjeewongculturalheritage21@hotmail.com; kevin.duncan@bigpond.com; konanggo_consultancy@hotmail.com; laurie.perry2020@outlook.com; leannekirkman1964@gmail.com; maz_lolli@yahoo.com.au; notifications@ntscorp.com.au; pamelayounggg54@gmail.com; scott@yarrawalk.com.au; wallangan@outlook.com; widescope.group@live.com; wscott@ntscorp.com.au |
| **Subject:** | Re: Project update - proposed REZ project within the Hunter Valley |
| **Date:** | Wednesday, 22 May 2024 8:37:37 AM |
| **Attachments:** | image001.png |

Good morning,

This is a courtesy email to advise you that the proposed Renewable Energy Zone (REZ) project within the Hunter Valley, NSW is still progressing.

The proponent is currently working through the requirements.

We will be in touch again when we can provide further information.

Warm regards,

Rebecca

APEX ARCHAEOLOGY

Rebecca Bryant
ARCHAEOLOGIST
0405 236 821
REBECCA@APEXARCHAEOLOGY.COM.AU
WWW.APEXARCHAEOLOGY.COM.AU

**From:** Thomas Dahlstrom
**To:** rebecca@apexarchaeology.com.au
**Subject:** Re: Project update - proposed REZ project within the Hunter Valley
**Date:** Thursday, 30 May 2024 5:53:40 PM

---

Thank you Rebecca

> On 22 May 2024, at 8:37 am, rebecca@apexarchaeology.com.au wrote:
>
> Good morning,
>
> This is a courtesy email to advise you that the proposed Renewable Energy Zone (REZ) project within the Hunter Valley, NSW is still progressing.
>
> The proponent is currently working through the requirements.
>
> We will be in touch again when we can provide further information.
>
> Warm regards,
>
> Rebecca
>
> <image001.png>

| | |
|---|---|
| **From:** | jenni@apexarchaeology.com.au |
| **To:** | "undisclosed recipients" |
| **Bcc:** | admin@ungooroo.com.au; aga.services@hotmail.com; alierafrenchtrading@outlook.com; amandahickey@live.com.au; cacatua4service@tpg.com.au; cazadirect@live.com; ceo@hvabcorp.org.au; ceo@wanaruahlandcouncil.com.au; corroboreecorp@outlook.com; daveyhorton69@gmail.com; deckavale@hotmail.com; didgengunawalclan@yahoo.com.au; dontminemeay@gmail.com; ethan3trewlynn@gmail.com; gamila_roi@yahoo.com.au; Gunjeewongculturalheritage21@hotmail.com; kevin.duncan@bigpond.com; konanggo_consultancy@hotmail.com; laurie.perry2020@outlook.com; leannekirkman1964@gmail.com; maz_lolli@yahoo.com.au; notifications@ntscorp.com.au; pamelayoungg54@gmail.com; scott@yarrawalk.com.au; wallangan@outlook.com; widescope.group@live.com; wscott@ntscorp.com.au |
| **Subject:** | Re: Project update - proposed REZ project within the Hunter Valley |
| **Date:** | Monday, 11 November 2024 11:23:21 AM |
| **Attachments:** | image001.png |

Good morning,

This is a courtesy email to advise you that the proposed Renewable Energy Zone (REZ) project within the Hunter Valley, NSW is still progressing.

The proponent is currently working through the requirements.

We will be in touch again when we can provide further information.

Kind regards,

APEX ARCHAEOLOGY

Jenni Bate
DIRECTOR - ARCHAEOLOGIST

0422 229 179
JENNI@APEXARCHAEOLOGY.COM.AU
WWW.APEXARCHAEOLOGY.COM.AU

**Subject:** Project update - proposed RE project within Hunter Valley
**Date:** Monday 19 May 2025 at 2:59:15 PM Australian Eastern Standard Time
**From:** peta@apexarchaeology.com.au
**To:** Undisclosed Recipients
**BCC:** admin@ungooroo.com.au, aga.services@hotmail.com, alierafrenchtrading@outlook.com, amandahickey@live.com.au, cacatua4service@tpg.com.au, cazadirect@live.com, ceo@hvabcorp.org.au, ceo@wanaruahlandcouncil.com.au, corroboreecorp@outlook.com, daveyhorton69@gmail.com, deckavale@hotmail.com, didgengunawalclan@yahoo.com.au, dontminemeay@gmail.com, ethan3trewlynn@gmail.com, gamila_roi@yahoo.com.au, Gunjeewongculturalheritage21@hotmail.com, kevin.duncan@bigpond.com, konanggo_consultancy@hotmail.com, laurie.perry2020@outlook.com, leannekirkman1964@gmail.com, maz_lolli@yahoo.com.au, notifications@ntscorp.com.au, pamelayoungg54@gmail.com, scott@yarrawalk.com.au, wallangan@outlook.com, widescope.group@live.com, wscott@ntscorp.com.au

Good afternoon,

This is a courtesy email to advise you that the proposed Renewable Energy Zone (REZ) project within the Hunter Valley, NSW is still progressing.

The draft report is currently in progress and should be expected within the coming weeks.

Kind regards,

APEX ARCHAEOLOGY

Peta Rice
ARCHAEOLOGIST
0482 646 644
PETA@APEXARCHAEOLOGY.COM.AU
WWW.APEXARCHAEOLOGY.COM.AU

**Subject:** Re: Project update - proposed RE project within Hunter Valley
**Date:** Tuesday 20 May 2025 at 11:04:31 AM Australian Eastern Standard Time
**From:** Ethan Trewlynn
**To:** Peta Rice

Hi Peta,

Thank you for the update. I look forward to hearing from you in due time.

Kind regards,

Ethan

On Mon, 19 May 2025, 3:01pm Peta Rice, <peta@apexarchaeology.com.au> wrote:

> Good afternoon,
>
> This is a courtesy email to advise you that the proposed Renewable Energy Zone (REZ) project within the Hunter Valley, NSW is still progressing.
>
> The draft report is currently in progress and should be expected within the coming weeks.
>
> Kind regards,

# APPENDIX I: CULTURAL HERITAGE AWARENESS TRAINING

*All personnel involved in the upgrade works along the walking tracks should be made aware of the heritage significance of the site and the legal requirements relating to Aboriginal cultural heritage. Works should be conducted in accordance with the recommendations of this report and the requirements of the AHIP. This could take the form of a heritage induction included as part of the site induction or tool box talk for site workers. Suggested information that could be presented as part of these talks is provided below.*

Aboriginal people have lived in Australia for over 65,000 years and the Hunter Valley area specifically for at least 20,000 years. Evidence of their lives is found in artefact sites and scarred trees in this area. All evidence of Aboriginal occupation of NSW is protected under the *National Parks and Wildlife Act 1974* and penalties apply if anything is damaged or destroyed without an appropriate permit.

The current works have an Aboriginal Heritage Impact Permit (AHIP) in place to permit the works to proceed. Before works started, surface collections were completed to pick up any artefacts on the ground surface within the works areas, and salvage excavations were undertaken. The artefacts have been placed in a safe location which won't be impacted by the current works. The presence of artefacts confirms that this area was lived in by Aboriginal people before European settlers arrived. The people living in this area are known as the Wonnarua people to the south of the Hunter River, and the Guringay or Gringai to the north of the Hunter River.

This information is to make sure all people working on this land are aware of the cultural significance of the land, and that it represents an unbroken connection to the past for Aboriginal people. It has a link to their ancestors and respect must be shown by all working on site.

As mentioned before, a permit has been issued for the works to be completed on site. This allows any remaining cultural evidence within the site to be impacted. However, anyone working on the site should be aware of the potential for Aboriginal stone artefacts to be present. If you see anything that looks unusual, you should stop work and let your supervisor know. They may need to contact an archaeologist and/or the Aboriginal community so the items can be collected and stored with other archaeological material.

So far, no evidence of Aboriginal burials has been identified within these areas. However, this does not mean that these do not exist in the area. In the unlikely event that you identify something that looks like human bone, you must stop works and let your supervisor know. They will need to contact the archaeological consultant for the site who will engage a specialist physical anthropologist to confirm whether the bones are human. If they are, the NSW Police should be contacted. They will determine the course of action depending on the likely age of the bones, and Heritage NSW may need to issue another permit before works can proceed at that location.