

# **Appendix N**

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## **ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

# Aboriginal Cultural Heritage Assessment

## Cowra Heavy Vehicle By-Pass

Cowra, NSW.

Report to Geolyse Pty Ltd

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May 2016



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**Doug Williams**  
**Principal Consultant**

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# 1. INTRODUCTION

## 1.1 Background

Cowra City Council is preparing a Review of Environmental Factors for a proposed Heavy vehicle By-pass of Cowra, to be known as the 'Southern Ring Road' (Figure 1). The road will be c.8.4km long, and follow approximately the southern outskirts of Cowra. From the west, it will leave Grenfell Road at Airport Road, following Airport road to Boundary Road. At the eastern end of Boundary Road it will follow Fishburn Street around to the Lachlan Valley Way, and cross the Lachlan River. From that point it will approximately follow Campbell Street to its intersection with the Mid Western Highway (Figure 1). Part of this alignment will be an upgrade and widening of the existing road, and part will be construction of a new carriageway, including a new river crossing.

As part of the assessment of a range of environmental issues the proponent was required to undertake a study of Aboriginal Cultural Heritage. Access Archaeology & Heritage Pty Ltd was engaged to prepare an Aboriginal Cultural Heritage Assessment Report which included commencing a notification and consultation program to engage Interested Aboriginal Parties.

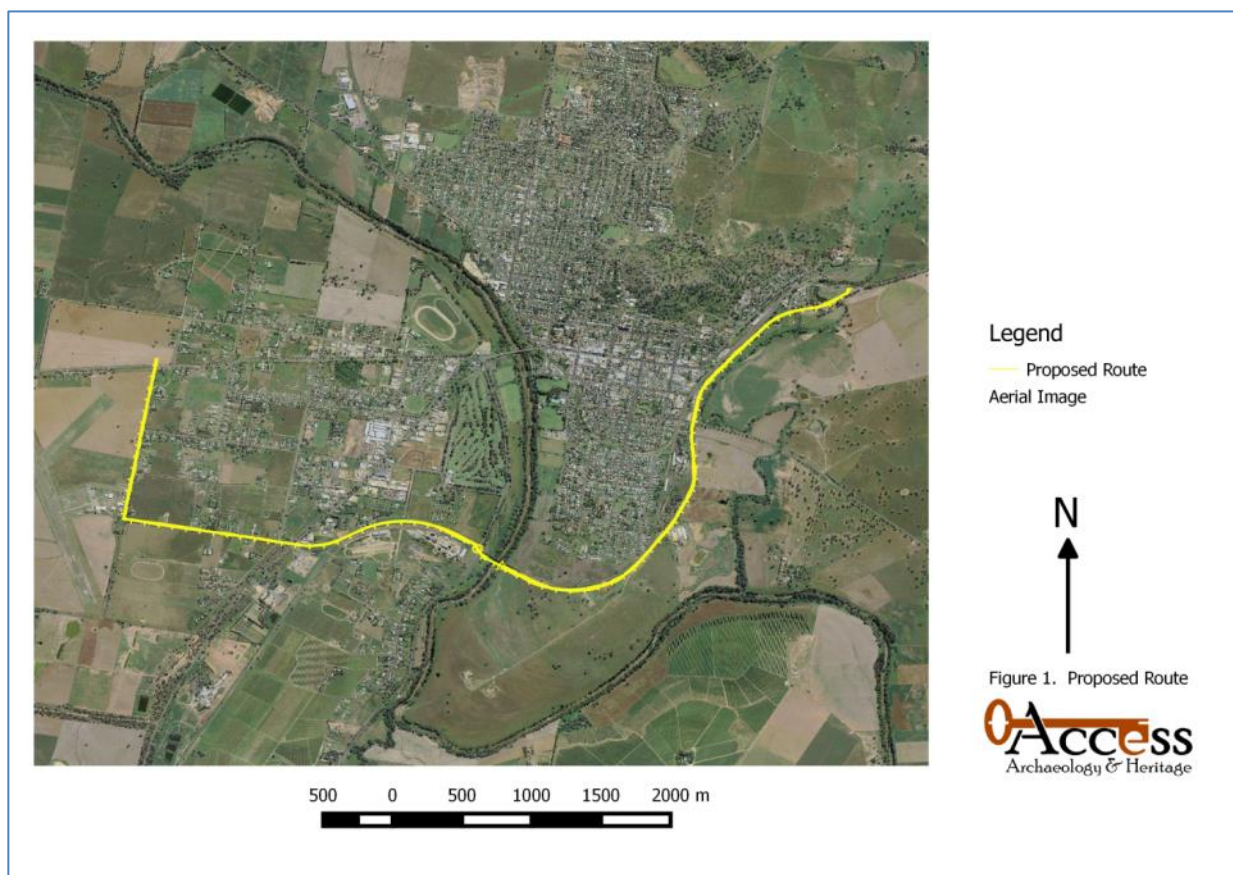


Figure 1. The Development Area

## 1.2 The Nature of the Development

The project elements described above will involve linear disturbance to specific corridors up to 30m wide. Road cuttings will cut through undulations, and topsoil will be removed and stockpiled to allow for laying of road base and subsequent works rehabilitation. This study examined a corridor ~50m wide

### 1.3 Project Objectives

The objectives of this project were:

- Undertake a search of the NSW Office of Environment and Heritage (OEH) Aboriginal Heritage Management System (AHIMS) database to determine if there had been any archaeological material recorded in the subject land (Appendix 1).
- Consult the local Aboriginal community to standards prescribed in *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010*.
- To undertake an archaeological survey to determine if there are landforms with a high potential to contain Aboriginal objects and whether Aboriginal object occur within the study corridor.
- Assess the nature and level of disturbance of these landforms.
- Complete a report on assessment and present recommendations for any further work required..

### 1.4 Participants

**Heritage Advisor – Doug Williams** Bachelor of Arts – Honours (ANU) Graduate Diploma of Applied Science (University of Canberra), Full Member Australian Association of Consulting Archaeologists

Doug Williams managed the heritage assessment and prepared this report. Doug has been a professional archaeologist and heritage manager since 1992 and has undertaken large-scale complex archaeological projects in New South Wales, ACT, Western Australia, Victoria and South Australia. He has qualifications in Australian Aboriginal archaeology and post graduate qualifications in Cultural Heritage Management. In particular, in recent years Doug has overseen several large excavation projects, as well as having implemented and managed field survey of several thousand square kilometres of development area in WA, NSW, ACT, Victoria and SA. In the course of this work he has worked on sites of local, regional, state, national and international significance.

**Project Manager – David Walker.** The project was managed by David Walker, Geolyse Pty Ltd, Orange Office.

#### Registered Aboriginal Parties:

- **Wiradjuri Men's Group:** Neville Williams
- **Mooka Bulla Traditional Owners:** Esther Cutmore and Neville Williams
- **Yarrowarra Hillford Aboriginal Corporation:** Jan Grey and Rick Stone
- **Kalari Ngunnawal Descendants:** Rebecca Ingram

## 2. LEGISLATIVE FRAMEWORK

### 2.1 The National Parks and Wildlife Act 1974 (NSW)

In NSW, Aboriginal heritage objects and places are protected mainly by the National Parks and Wildlife Act 1974 (NSW) (the Act) which contains provisions making it illegal to harm Aboriginal objects and Aboriginal places without appropriate defence or permission. The Act is presently administered by the NSW Office of Environment and Heritage (OEH). Under definitions provided in the Act:

- **Aboriginal object** means any deposit, object or material evidence (not being a handicraft made for sale) relating to the Aboriginal habitation of the area that comprises New South Wales, being habitation before or concurrent with (or both) the occupation of that area by persons of non-Aboriginal extraction, and includes Aboriginal remains.
- **Aboriginal place** means any place declared to be an Aboriginal place under section 84.

Individuals or corporations may be prosecuted against two levels of offence. Knowingly or deliberately harming or desecrating Aboriginal places/objects is the higher of the two levels. Lower level offences are known as 'strict liability' offences - offences regardless of whether or not the offender knows they are harming an Aboriginal object or desecrating an Aboriginal place. A person or corporation may have a defence against such prosecution where they have:

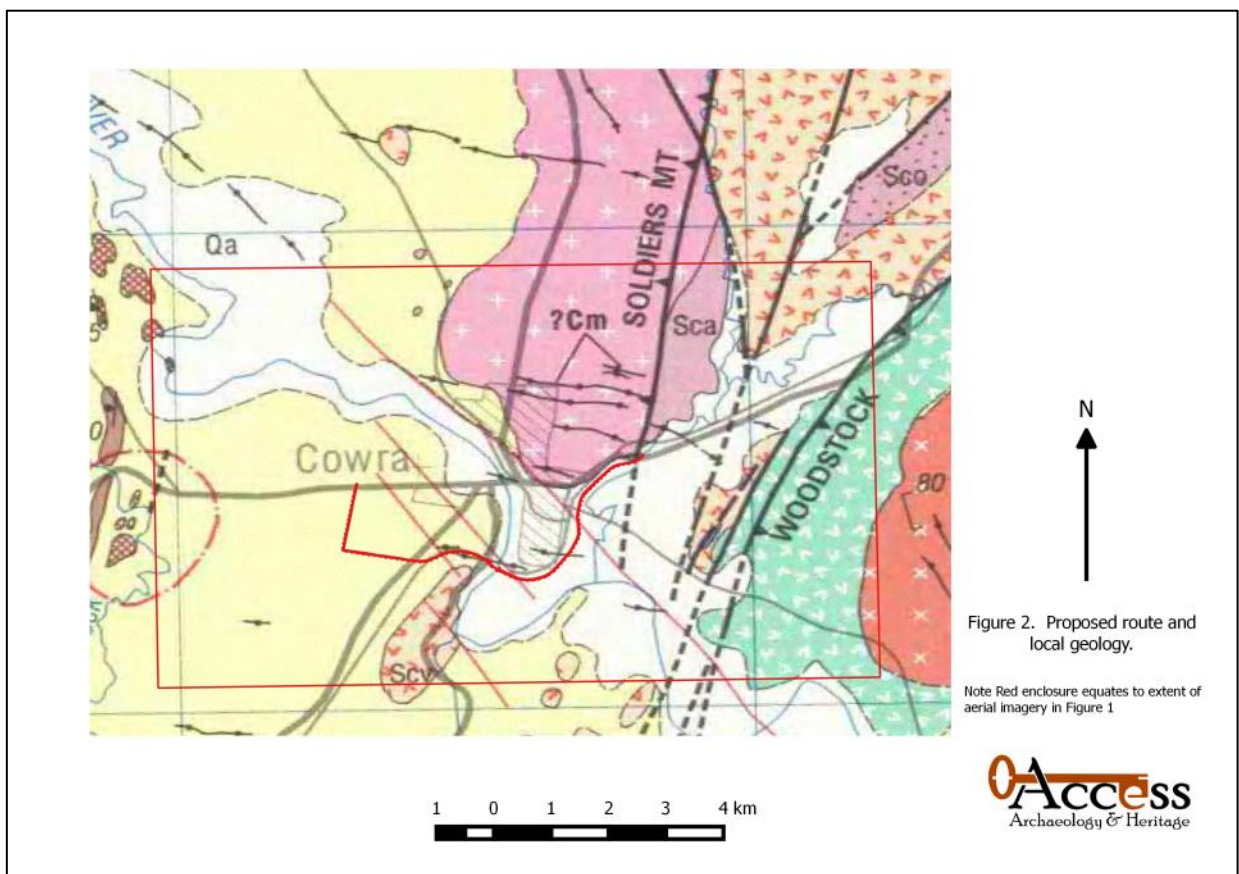
- An Aboriginal Heritage Impact Permit (AHIP) authorising the harm (s.87(1))
- Exercised due diligence to establish Aboriginal objects will not be harmed (s.87(2))

Due diligence may be demonstrated by following requirements described in the National Parks and Wildlife Regulation 2009 (the Regulation) or a code of practice adopted or prescribed by the NPW Regulation (s.87(3)).

### 3. ENVIRONMENTAL BACKGROUND

The study area is located on the southern outskirts of Cowra. From the east, the route follows Campbell Street which departs the Mid Western Highway approximately 1.5km east of town. Campbell Street terminates ~2.6km to the south at a wool processing facility which is currently disused. The proposed route continues to flank the south east and south of the town boundary, following the southern side of the Cowra rail line to the Lachlan River. The route crosses the Lachlan River immediately south of the rail bridge, crosses the Lachlan Valley Way and passes under the rail overpass to the northern side of the rail line. The route then passes between the rail line and the southern side of the Cowra Mission until meeting Fishburn Street, following on to Boundary Road. At the end of Boundary Road there is a right angle bend where the road becomes Airport Road, and the route then proceeds north to meet Grenfell Road.

The Cowra landscape is dominated by Soldiers Mountain, a formation of Silurian age granodiorite termed 'Cowra Granodiorite'. The area is geologically complex with nearby formations including the Ordovician Walli Basalts, Silurian 'Grants Corner' Granodiorite and 'Canowindra Volcanics'. In the Lachlan valley soils comprise quaternary gravels and sand with alluvium flanking the river corridor (Raymond *et al*, 1998). The local geology would have provided material suitable for hatchets in the abundant granodiorites, and materials for flaked stone artefacts from local gravel beds (pers obs).



The proposed study corridor is largely devoid of unmodified native vegetation, and used for a range of urban, transport and agricultural purposes. Historically, the vegetation of the drier slopes of the surrounding Cowra area would have been characterised by an Inland Greybox Woodland, which consisted primarily of *Eucalyptus macrocarpa* which is often found in association with *Callitris glaucophylla* (White Cypress pine), *Brachychiton populneus* (Kurrajong), and *Eucalyptus melliodora* (Yellow Box), and with *Eucalyptus albens* (White Box). Native

grasses would have occurred beneath the tree canopy. Along the Lachlan River, the vegetation would have included a Riverine Woodland consisting of *Eucalyptus camaldulensis* (River Red Gum), *Eucalyptus largiflorens* (Black Box), *Eucalyptus moluccana* (Grey Box), *Callitris galucophylla* (White Cypress Pine) and *Acacia dealbata* (Silver Wattle) and various native grasses.

This vegetation community would have provided a variety of plant resources for food and tools or weapons. Eucalyptus species would have provided bark and wood for containers, shields and canoes, whilst the leaves from the long grasses would have been used for basket weaving. Acacia trees would have supplied seeds and sweet edible gum (Low 1992: 86). The river corridors would have provided ample opportunity to catch a variety of game including macropods, possums, echidna, birds, fish, reptiles (eg, goannas, turtles) and yabbies.

## 4. CONSULTATION

Consultation with Aboriginal stakeholders was undertaken in accordance with clause 80C of the *National Parks and Wildlife Amendment (Aboriginal Objects and Aboriginal Places) Regulation 2010*.

A four step process of consultation with Aboriginal stakeholders was initiated in accordance with clause 80C of the *National Parks and Wildlife Amendment (Aboriginal Objects and Aboriginal Places) Regulation 2010*. The consultation steps, listed below, are outlined in the OEH *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010 (ACHCRP 2010)* guide.

- Step 1 – Notification of project proposal and registration of interest.
- Step 2 – Presentation of information about the proposed project.
- Step 3 – Gathering information about cultural significance.
- Step 4 – Review of draft cultural heritage assessment report.

### Consultation Step 1 – NOTIFICATION

Notification letters were sent to the relevant bodies/agencies listed in section 4.1.2 of the *ACHCRP 2010*, requesting details of any parties with a known interest, or who hold knowledge related to the subject area. The Cowra Shire Council provided a list of known Aboriginal organisations with an interest in Aboriginal heritage issues. Notification of the Aboriginal heritage project was undertaken via the placement of a newspaper notice in the *Central Western Daily* on Wednesday 25 March 2015. Attempts were made to contact the Cowra Local Aboriginal Land Council but at the time of contact the organisation was in hiatus.

At the close of the notification period on the 17 October 2015, four Aboriginal parties had registered for the project:

- Wiradjuri Mens Group (WMG);
- Mooka Bulla Traditional Owners (MBTO);
- Yarrawarra Hilford Aboriginal Corporation (YHAC)
- Kalari Ngunnawal Descendants (KND)

### Consultation Step 2 INFORMATION TO RESPONDENTS

A *Project Proposal Information* document for the assessment was forwarded to the respondents. The document provided details of the project and the proposed heritage assessment methodology and invited comments from interested parties. The document also sought any information regarding known Aboriginal cultural significance values associated with the subject area and/or any Aboriginal objects contained therein.

There was no response to the method statement from any party. Based on the responses to notification and information packages it was determined appropriate to have fieldwork attended by representatives of the WMG, MBTO, YHAC and KND.

### **Consultation Step 3 GATHERING INFORMATION ABOUT CULTURAL SIGNIFICANCE**

A field inspection was organised for 5-6 June 2015. All parties were notified of the date through email and phone calls. On 5 June the survey was attended by WMG, MBTO and YHAC representatives, and contact was made from the KND to the field team by telephone stating they would attend. They were advised several times during the day where the field team was located by they did not attend. On 6 June the field survey was attended by the WMG and MBTO representatives only.

The field survey determined that several areas required further investigation in the form of sub-surface test excavation. Accordingly the consultation group (including NSW OEH) was forwarded notice of the proposed test excavation locations and methods. The WMG, MBTO and YHAC representatives indicated an interest to be involved in the test excavation program, although only the WMG and MBTO groups attended. Fieldwork for the subsurface test phase of the project was undertaken over the days of 13-18 February 2016 inclusive. Fieldwork was attended by Neville Williams, Stuart Cutmore and Wayne Williams (2 days).

### **Consultation Step 4. REVIEW OF DRAFT INFORMATION**

The draft report was circulated to the Registered Aboriginal Parties and the Cowra Local Aboriginal Land Council. No comments were received from the YHAC, KND or Cowra LALC.

Verbal comments were received from Neville Williams (WMG, MBTO) and Esther Cutmore (MBTO) on Friday 27 June 2016. These comments were to the effect that they considered the report to be of a high standard and were in agreement with the recommendations. Neville Williams requested it be noted that the area between the Cowra Mission and the railway line was used in historic times as a travelling stock route. This note was added to the information regarding the detailed assessment of this area (see 7.3.1).

## **5. ARCHAEOLOGY OF THE LOCAL AREA**

The archaeological site patterning for the local area is not well understood, due to a comparative lack of previous studies in the local area compared to other regions nearby.

Michael Pearson's 1981 PhD thesis remains a sound region wide basis for presenting a model of site location for the region (Pearson 1981). From that study was obtained data for the oldest known sites in the region – Granites 2 Rockshelter 30km northeast of Orange dated to ~7,000BP. That no older sites have been found to date reflects the lack of investigation given the acknowledged length of Aboriginal occupation of Australia. Pearson recorded a strong relationship between open camp site locations (as defined by the presence of open artefact scatters) and presence of water. Other environmental variables found to be conducive to site location were shelter from wind, well drained areas, views, level ground and elevation above frost hollows (Pearson 1981).

In 2005 Comber consultants undertook a survey of a proposed Sewage Treatment Plant (Comber 2006). The study located a large open artefact scatter (STP1) and two isolated artefacts. The larger site was conserved through fencing and further monitoring was undertaken in the locality at which time it was determined that further investigation was necessary. Sub surface testing of part of the subject area and surface collection was recommended. This latter resulted in a collected assemblage of thirty four artefacts (Stenning 2009:30). Chert

and quartz artefacts represented the majority of the assemblage, with silcrete forming a minor proportion (Stenning 2009:32).

Human remains have not been extensively reported from the local area. One incomplete set was discovered in the Cleifden Caves ~20km north east of Cowra. These were interpreted as the remains of a large, robust man in excess of 40 years of age. Although found in the cave, the remains were not buried, and all were post cranial remains from the lower half of the body. It was suggested they arrived in their secluded, difficult to reach location by misadventure and did not represent primary or secondary interment (Pardoe and Webb 1986).

The results of previous archaeological research in the area suggest topographic elements in the subject area have moderate potential to contain Aboriginal archaeological material. The main element with potential are raised topography within 200-300m or water courses and wetlands, with these having potential to contain open artefact scatters or isolated artefacts. Stands of mature native trees may contain scarred trees.

Pursuant to the points made in the preceding sections, the following statements can be made regarding the archaeological potential of the present subject area:

- As the topography of the subject contains level to gently sloping topography in proximity to water Open Artefact Scatters might be expected.
- It is **possible, although unlikely**, that **stone quarries** will occur if suitable sources of stone are present and accessible.
- Due to clearing, it is **likely** that scarred trees will occur in the subject area especially in the eastern end throughout Stage 1.
- It is **possible** that fresh water **shell midden** may occur near watercourses or billabongs.
- The occurrence of human burials is highly unlikely.

## 6. METHODS

The Aboriginal Heritage Information Management System (AHIMS) site register was consulted to determine if any sites had been previously recorded in, and near, the subject area. Previous archaeological studies were reviewed to familiarise the consultant with local archaeology, and recent investigations in the area.

A field inspection was undertaken by one experienced archaeologist and three members of the local Aboriginal community noting conditions of topography and surface visibility while examining the ground for stone artefacts, mature trees for scars, and the general area for other site types such as quarries. Using a combination of printed aerial photographs and GIS spatial files the team oriented itself in the field, and sites were recorded using a GPS-enabled hand held PC.

## 7. REGISTER AND FIELD SEARCHES

### 7.1 AHIMS Search

An AHIMS search was conducted over segments of the study corridor and no Aboriginal sites were previously recorded within its footprint or within ~100m.

### 7.2 Field Inspection – June 2015

The field inspection recorded the following items:

- Three Aboriginal heritage sites, all of which were isolated artefacts;
- Seven areas of Potential Archaeological Deposit (PAD), where concentrations of stone artefacts might be expected by surface visibility precluded comprehensive assessment;
- One potential site of historic interest

Surface visibility was generally poor along the route, and visibility is summarised in Table 1. It shows that 78,900 square metres was examined and of that 2981 (3.8%) was effectively covered. This level of effective coverage is common in surface archaeological surveys and is a primary reason for a paucity of recorded surface sites.

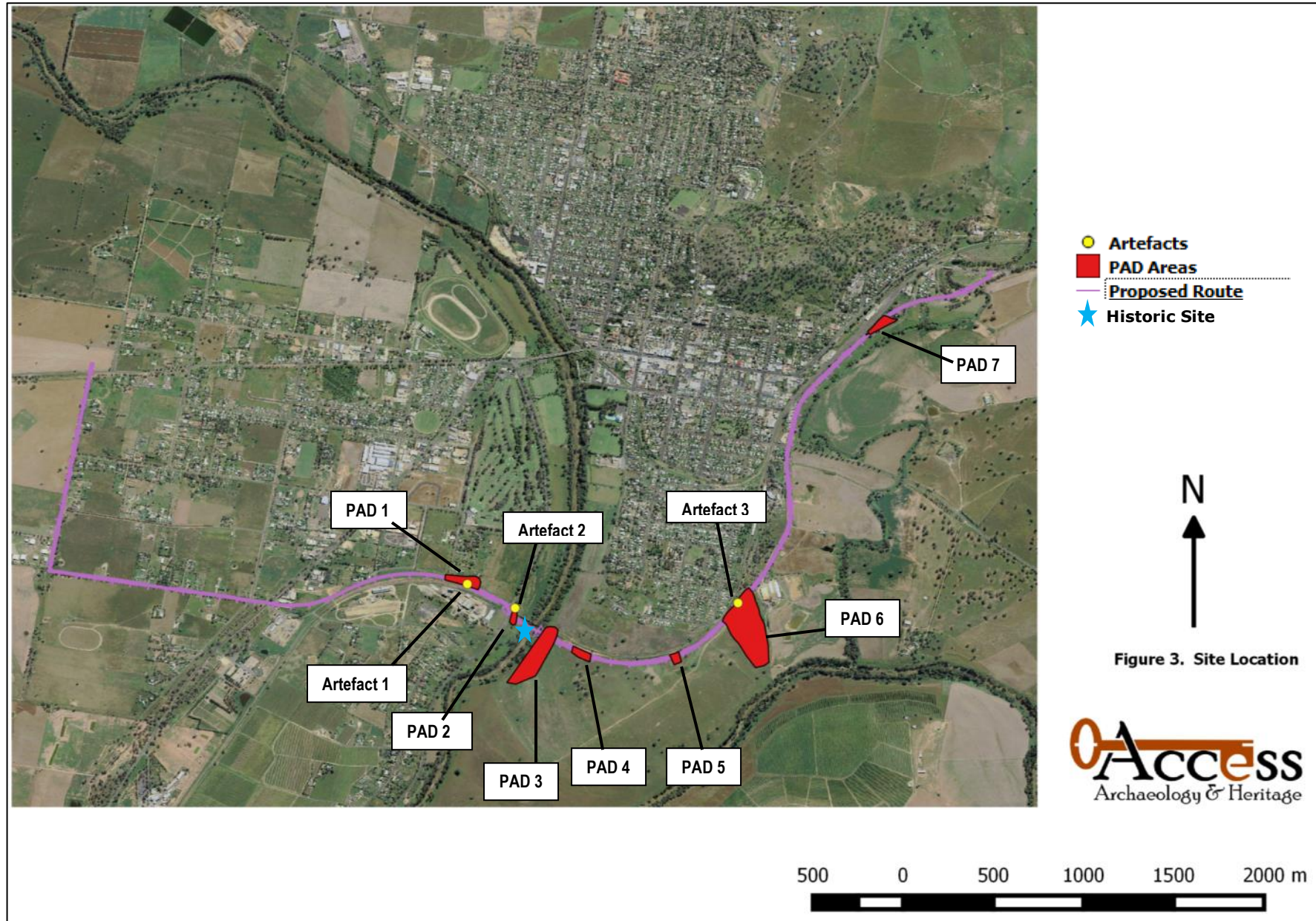


Plate 1. View South along Airport Road showing grassed verges with sporadic exposures

**Table 1. Visibility and landform units**

Landform Unit	Length	Width	M2	No of personnel	Visibility %	Effective Coverage
Undulating Plains	3400	10	34000	4	5	1700
Spur Crest	300	10	3000	4	1	30
Simple slope	135	10	1350	4	10	135
River terraces	150	10	1500	4	1	15
River Levee	70	10	700	3	0	0
Simple Slope	70	10	700	3	0	0
Spur Upper slope	30	10	300	3	5	15
Spur Crest	50	10	500	3	2	10
Spur Upper slope	30	10	300	3	5	15
Simple Slope	90	10	900	3	2	18
Low Lying Flat	200	10	2000	3	0	0
Simple slope	55	10	550	3	2	11
Upper slope	15	10	150	3	2	3
Spur Crest	35	10	350	3	2	7
Simple slope	55	10	550	3	2	11
Low Lying Flat	160	10	1600	3	2	32
Simple Slope	75	10	750	3	2	15
Spur Crest	385	10	3850	3	5	192
Undulating Plain	1000	10	10000	3	5	500
Creek Terraces	1100	10	11000	4	2	220
Undulating Plain	185	10	1850	4	2	37
Creek Terraces	150	10	1500	4	1	15
Undulating Plain	150	10	1500	4	0	0
<b>Totals</b>			<b>78900</b>			<b>2981</b>

**Plate 2. View east along south side of Cowra Mission**



**Site 1. Isolated Artefact 1 , and PAD 1 (Potential Archaeological Deposit)**

Grey fine grained siliceous flake. 15mm x 15mm x 3mm. focal, unifacial platform, feather termination. 3 quadrant 1 scars.

This artefact was located in a small bare patch in a wheel rut on a track between the south of the Cowra mission and the rail line (Plate 3). The site is located on a high, relatively level terrace on the west side of the Lachlan River. The general area has undergone an indeterminate level of disturbance, but nonetheless contains considerable potential to exhibit a concentration of stone artefacts.



Plate 3. View east across artefact location (white stake flag) and PAD 1



Plate 4. Artefact 1 – Dorsal Surface

**Site 2. Isolated Artefact 2, and PAD 2 (Potential Archaeological Deposit)**

Cream quartz core. 50mm x 110mm x 100mm. 8 flake scars from 2 alternate platforms, 70% pebble cortex. While technologically a 'core', typologically would be classified as a chopper made on a pebble.

This artefact was located on the east side of the Lachlan Valley Way, and the north side of the rail bridge, in the alignment of a proposed roundabout in the road design. The locality is a river terrace immediately adjacent to the Lachlan River to the east. The locality is also that identified as a 20<sup>th</sup> century collection of huts called 'Ryans Place' (Kabaila 1996: 31-33) (Figure 4).



Plate 5. Artefact Location and north end of PAD 2



Plate 6. Artefact 2.



**Plate 7. Artefact 2 – flaked edge photo A.**



**Plate 8. Artefact 2 – flaked edge photo B.**

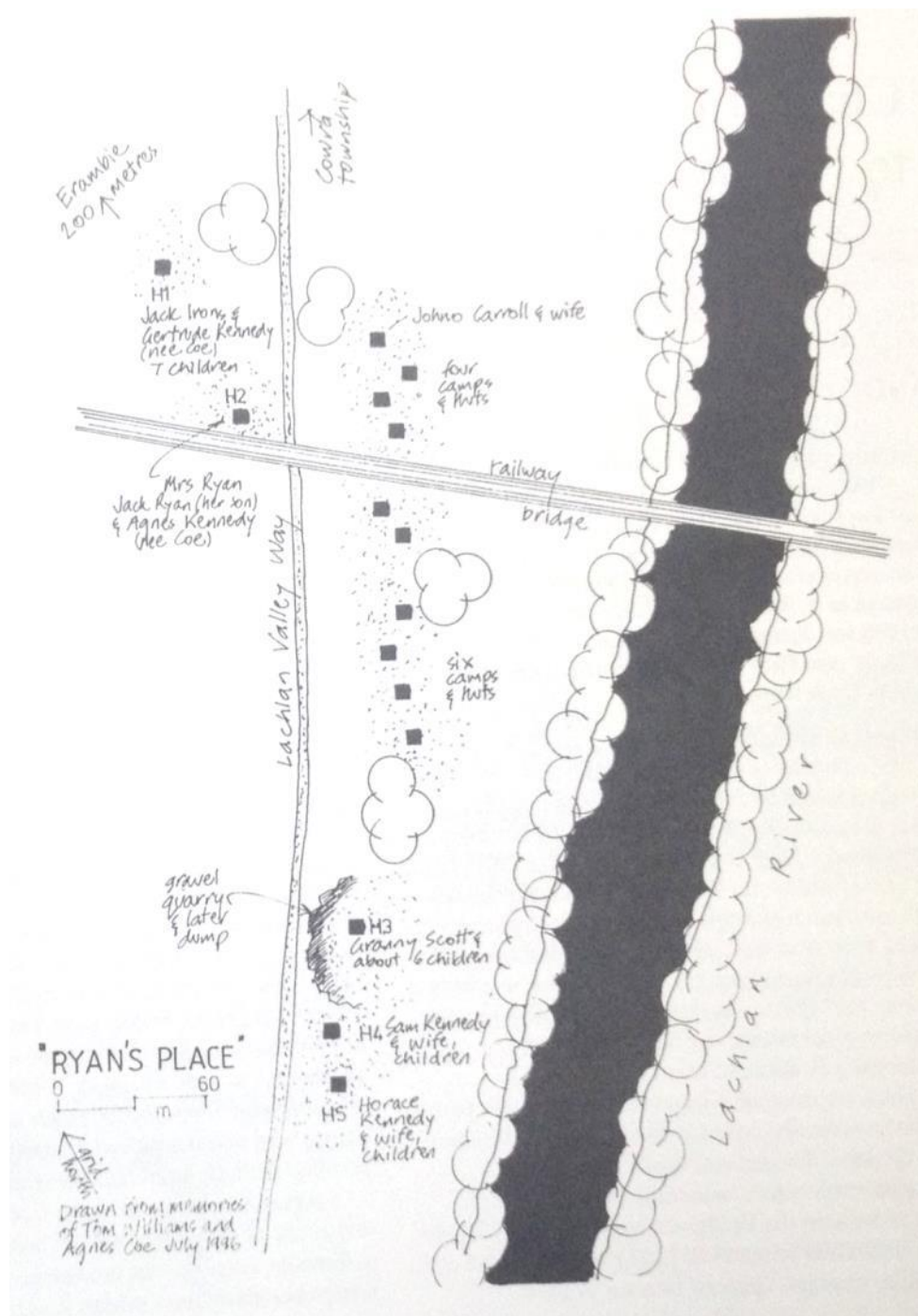


Figure 4. 'Ryan's Place'. Reproduced from Kabaila 1996:33

**Site 3 Isolated Artefact 3, and PAD 6 (Potential Archaeological Deposit)**

White quartz core. 12mm x 53mm x 45mm. 1 flake scars from 1 cortical platform, 90% pebble cortex.

Artefact 3 was located on a farm track to the south west of a disused wool scour facility, and to the east of the railway corridor. In this location the track crosses an elevated, distinct level spur consisting of alluvial gravels and coarse sand. The crest of this spur is identified in this study as PAD 6.



**Plate 9. Looking south across PAD 6 at location of Artefact 3**



**Plate 10. Looking north across PAD 6 at location of Artefact 3.  
Note disused wool scour shed in background**



Plate 11. Artefact 3.



Plate 12. Artefact 3 conchoidal scar

### **PAD 3. Eastern Lachlan River terrace.**

PAD 3 is a levee deposit on the eastern side of the Lachlan River. The deposit has formed as river floods have deposited alluvium at the river's edge and formed a low ridge parallel to the river bank. Levee deposits are generally soft and silty and outside of flood periods are well drained. They tend to be of higher archaeological

potential both because they attracted people to camp and they are also aggrading landscape features which seal in archaeological material.

**PAD 4. Spur Crest.**

PAD 4 is a spur above the river floodplain, consisting of quaternary alluvial sand and gravels. It is an elevated relatively level topographic location overlooking the floodplain and consequently would have been an attractive camp site location, especially during flood periods.

**PAD 5. Spur Crest.**

PAD 5 is a spur above the river floodplain, consisting of quaternary alluvial sand and gravels. It is an elevated relatively level topographic location overlooking a secondary creek line and small wetland (now drained and the location of a farm water storage). Consequently would have been an attractive camp site location, especially during flood periods.

**PAD 7. Creek Margin.**

PAD 7 is a level to gently sloping topographic location on the west side of a major creek line. The margins of rivers and creeks were preferred camp locations and as a consequence this location has potential to contain a concentration of Aboriginal stone artefacts.

**Historic Feature.**

This feature is a large, round concrete tank set into the western bank of the Lachlan River, on the south side of the rail bridge. To the north of the tank is a drain running back into the Lachlan River. Neville Williams and Esther Cutmore considered this feature to be the pump station for water to be supplied to the power station. Mr Williams relayed the story that in the mid 20<sup>th</sup> century, after the water as used in the power station the drain (or a drain) returned hot water to the river, and children would swim in the warm water down stream as it mixed with the cold water of the river.



**Plate 13. Concrete tank associated with Cowra power station**

### 7.3 Further Archaeological Investigation – February 2016

The surface survey identified the requirement to undertake subsurface investigation at each of PADs 1 to 7 in order to understand a) whether they were indeed archaeological sites, and b) if so provide an assessment of their content, density of material and integrity. An investigation of these characteristics was considered crucial to determining the significance (if any) of cultural material at the locations.

The test excavation process was undertaken under the NSW OEH Code Of Practice for Archaeological Investigation, and the relevant notification process is described in section 2 of this report.

The physical investigation of the sites entailed the excavation of a series of 0.5m x 0.5m test pits, 5m apart in linear transects. The transects were sited within the proposed development corridor where possible. Excavation was undertaken by shovel with assistance of a crow bar in compact deposit and proceeded using 50mm spits, or as close as could be managed in difficult deposit. Excavated material was screened through a 5mm mesh on a 1.2m x 1m screen table and residue was sorted on the screen table. Cultural material (Aboriginal or European) retained for later recording.



**Plate 14. Screening excavated deposit at a test excavation location**

Characteristics of test excavation pits were recorded as excavation proceeded and each pit was photographed prior to being backfilled. Residue was screened onto a tarp in order that it could be fully recovered for return to the pit from which it came.

Test excavation was undertaken between Friday 12 February and Thursday 18 February 2016 inclusive.

#### 7.3.1 Test Excavation PAD 1.

PAD 1 is a high, level spur on the western side of the Lachlan River. The majority of the PAD has been disturbed by development over a long period of time, including establishment of the Cowra Mission, but also roads, rail and industrial facilities (Figure 3). The corridor has also been used as a travelling stock route (N.Williams Pers Comm,

May 2016). The development is proposed to be constructed over the top of an existing informal track running between the railway and the south side of the mission. For the purposes of this project the investigation transect was moved to the north side of this road by ~10m in order to excavate in a relatively undisturbed location.

The investigation transect comprised six test pits spaced five metres apart in a single transect (Figure 5, Plate 15).

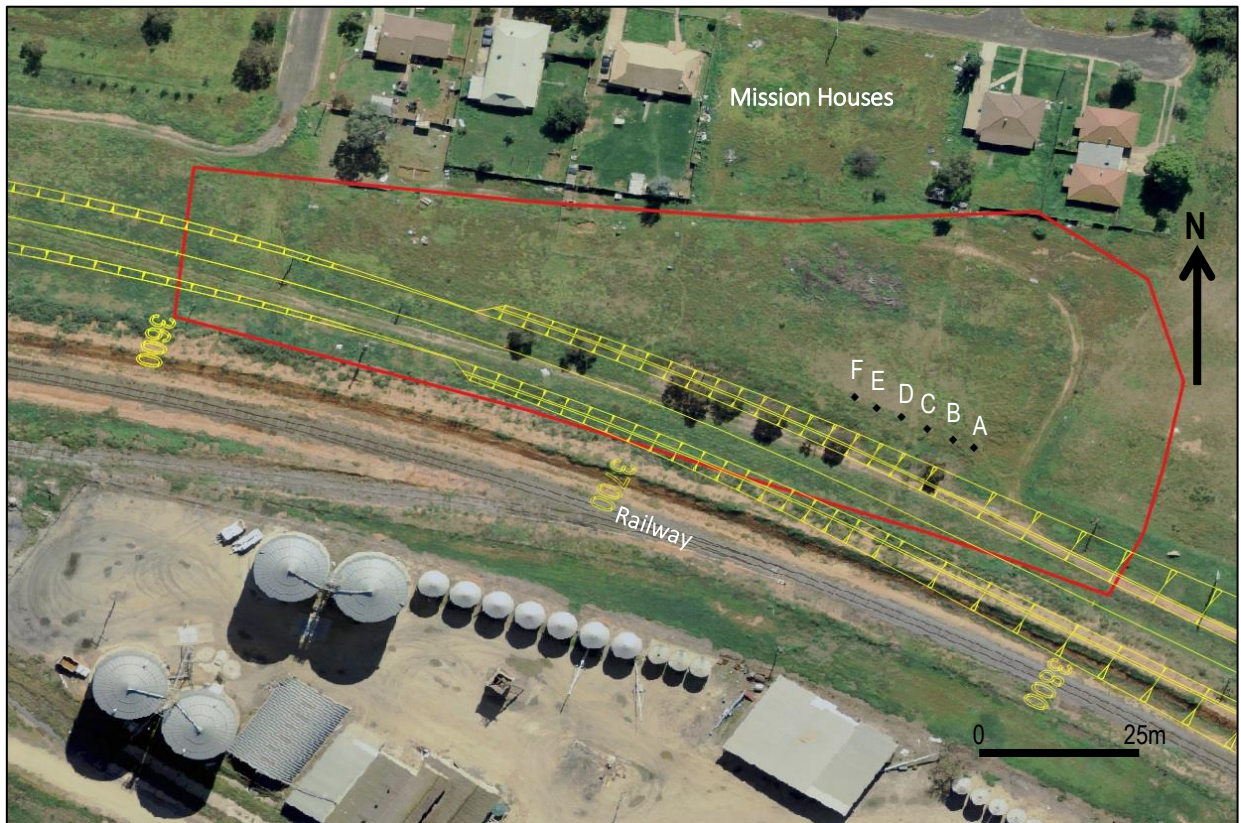


Figure 5. Test pits within PAD 1.



Plate 15. View north west along PAD 1/Transect 1. Pink flags indicate probe locations, Probe A nearest to viewer.

Excavation at PAD 1 revealed a topsoil profile approximately 400mm deep, consisting of loose tan fine sand with humic material to ~120mm and orangey tan fine sand below that to 400mm and an interface with orange clay. Aboriginal cultural material, in the form of stone artefacts, was found in three of the probes excavated at PAD 1.



**Plate 16. Representative soil profile, PAD 1**

In summary the transect exhibited

- Probe A, 150-200mm: One silcrete distal flake fragment.
- Probe A 250-300mm: One coarse grained siliceous flaked piece, broken in four pieces during excavation.
- Probe B 200-250mm: One quartz flake.
- Probe C 50-100mm: One quartz flake.

The probes of Pad 1 transect 1 also exhibited glass and ceramics typical of 20<sup>th</sup> century occupation, bring mainly brown, clear, green and blue bottle glass, in addition to plastic fragments and rubber fragments. This 20<sup>th</sup> century material occurred mainly in the top 200 mm.

### 7.3.2 Test Excavation PAD 2.

PAD 2 is a river terrace on the western side of the Lachlan River. The terrace runs parallel to the river for several kilometres to the north and south of the location of the proposed bypass. At the location of the proposed bypass The investigation transect comprised four test pits spaced five metres apart in a single transect (Figure 6, Plate 16).

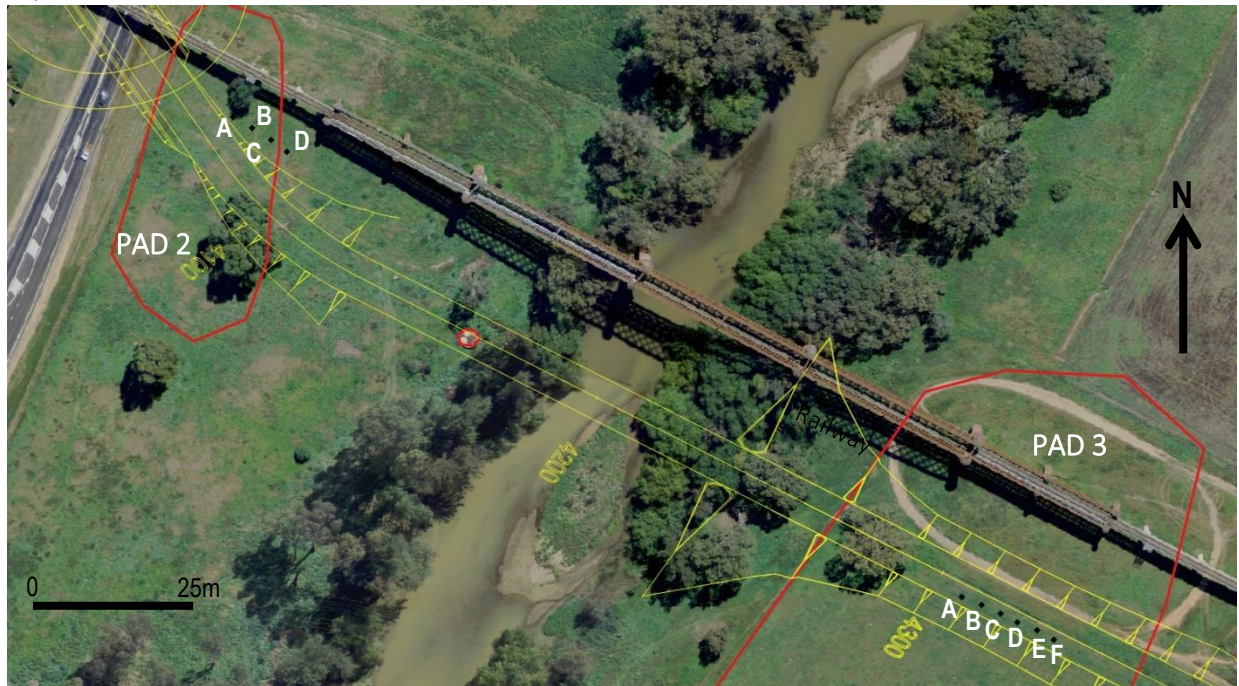


Figure 6. Test pits at PAD 2



Plate 16 View east along PAD 2/Transect 1. Pink flags indicate probe locations, Probe A nearest to viewer.

The soil profile at PAD 2 was predictably deep, being in a zone of alluvial deposition. Probe depth varied between 620mm and 750mm and the deposit was very compact. The top layer of the probes was a dense layer of blue metal, being the result of railway blue metal falling from above. Under this rocky surface layer, the deposit was a mid brown fine silty sand (Plate 17). Occasional water rolled pebbles were encountered.



**Plate 17. Pad 2 Transect 1 Probe A: Soil profile at PAD 2.**

At PAD 2, Aboriginal cultural material was restricted to a single quartz flake, found in spit 12 (620mm-700mm) of Probe A. The upper spits (down to ~250mm and lower in some instances) also exhibited European material in the form of broken glass (brown, green, clear) and ceramic.

### **7.3.3 Test Excavation PAD 3.**

PAD 2 is a river levee deposit on the eastern side of the Lachlan River. The raised feature sits atop the river bank, falling slightly away to the east (away from the river). The subsurface investigation at this location tested the potential of the northern end of this levee feature, and it is higher and more extensive further to the south.

The investigation transect comprised six test pits spaced five metres apart in a single transect (Figure 7, Plate 18).

The deposit at this location was a moderately compact silty sand. Its upper levels were grey silty sand. Below this the texture remained the same but the colour was noted to change to an orangey brown one. In several probes there appeared two narrow bands obviously more compact and lighter in colour (plate 19). The texture of the deposit was typical of levee deposits.

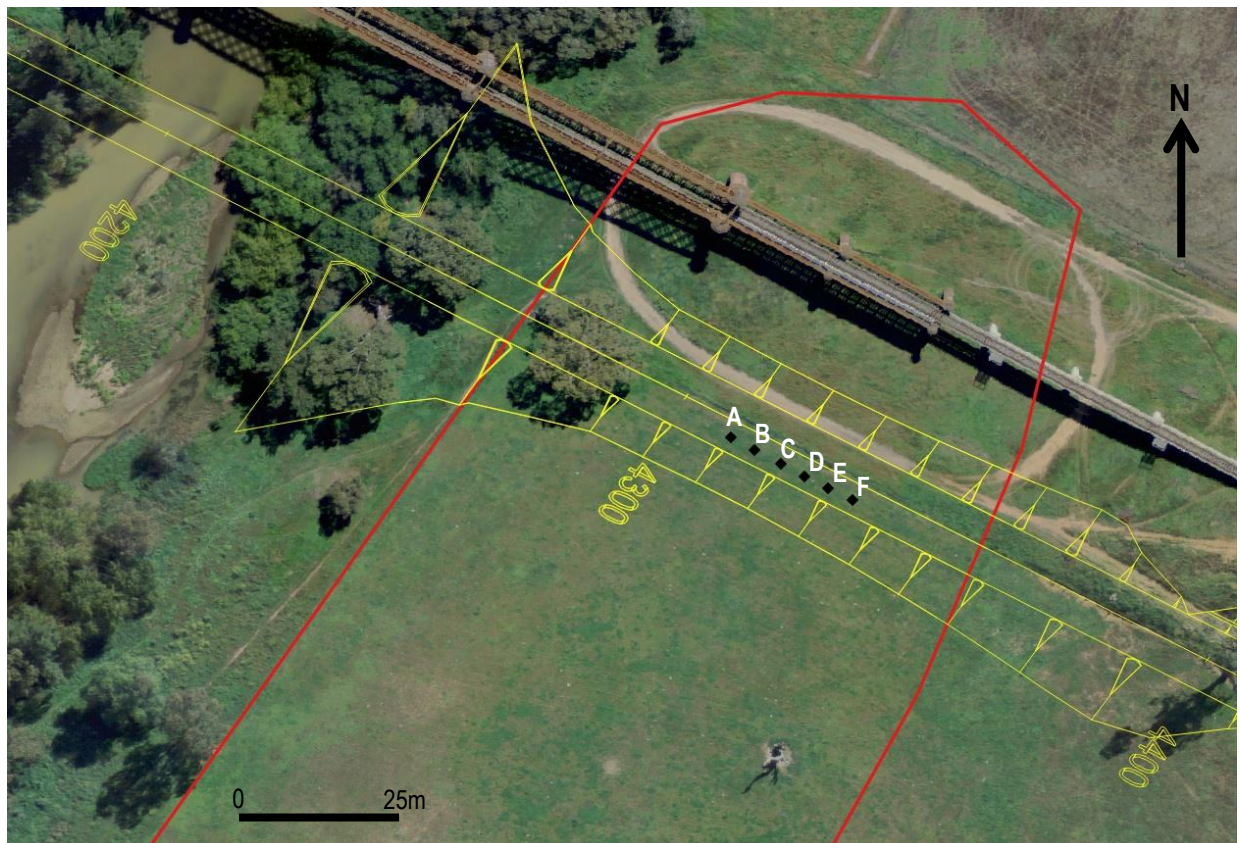


Figure 7. Test pits at PAD3



Plate 18. View East along transect. Probe F closest to viewer.



Plate 19. Representative soil profile, PAD 3. Note more damp deposit at depth, and evidence of prior surfaces (A and B)

There were no stone artefacts recovered from any of the probes at PAD 3. However, of interest was one artefact we interpret as a glass scraping/cutting implement. The artefact was found at level 5 of probe E (~200-250mm below surface). The artefact was made on the side of a bottle and has damage consistent with use as a scraping or cutting implement as opposed to treadage or plough damage. It was found as part of a group of seven glass pieces of the same glass, non-conjoining and as they all exhibit the same patina they broke in antiquity at the same time. The depth of the glass pieces broadly corresponded with the location of a charcoal concentration and



Plate 20. PAD 3/Transect 1/Probe E/Spit 5.  
Parentheses show location of glass concentration.

a prior levee surface, both being visible in the section shown in Plate 20. The correspondence of these three features in the soil profile strongly suggest an *insitu* cultural event at the time this level was exposed as the levee surface, such event being during the early period of European settlement. While it is possible this represents European activity, the fracture pattern on the glass artefact is inconsistent with European glass use but fully consistent with Aboriginal glass use.

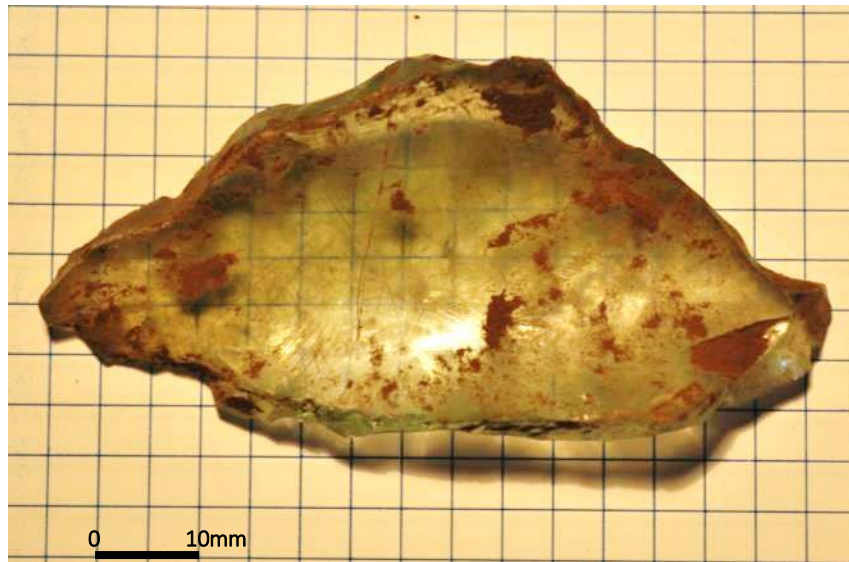


Plate 21. Glass Scraper



Plate 22. Utilised/damaged edges

#### 7.3.4 Test Excavation PAD 4.

PAD 4 is the crest of a knoll adjacent to the Lachlan River floodplain. It was selected as a PAD for testing as it is high ground adjacent to a major river corridor which would have provided a level, flood proof location to camp while being in close proximity to the river. The investigation transect comprised six test pits spaced five metres apart in a single transect (Figure 8, Plate 23). **No cultural material was found in the test pits of PAD 4.**

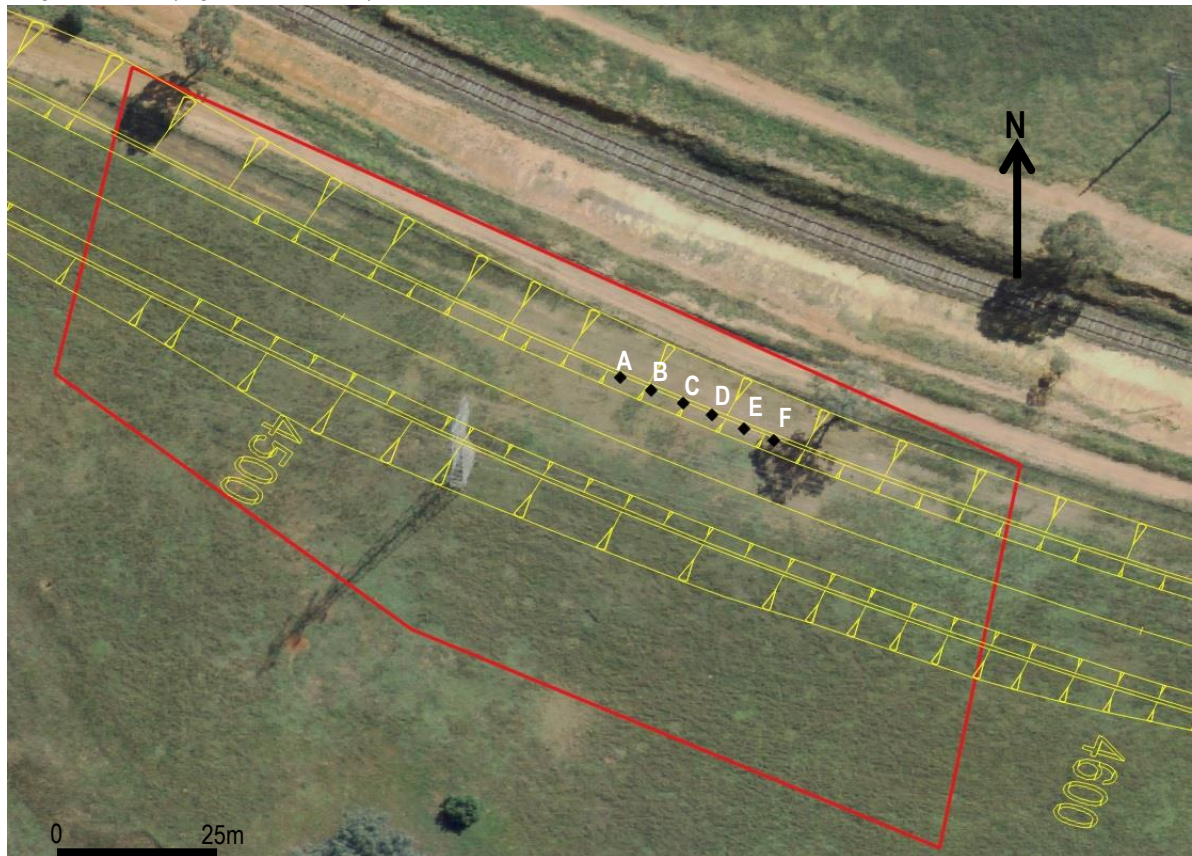


Figure 8. Test pits at PAD 4

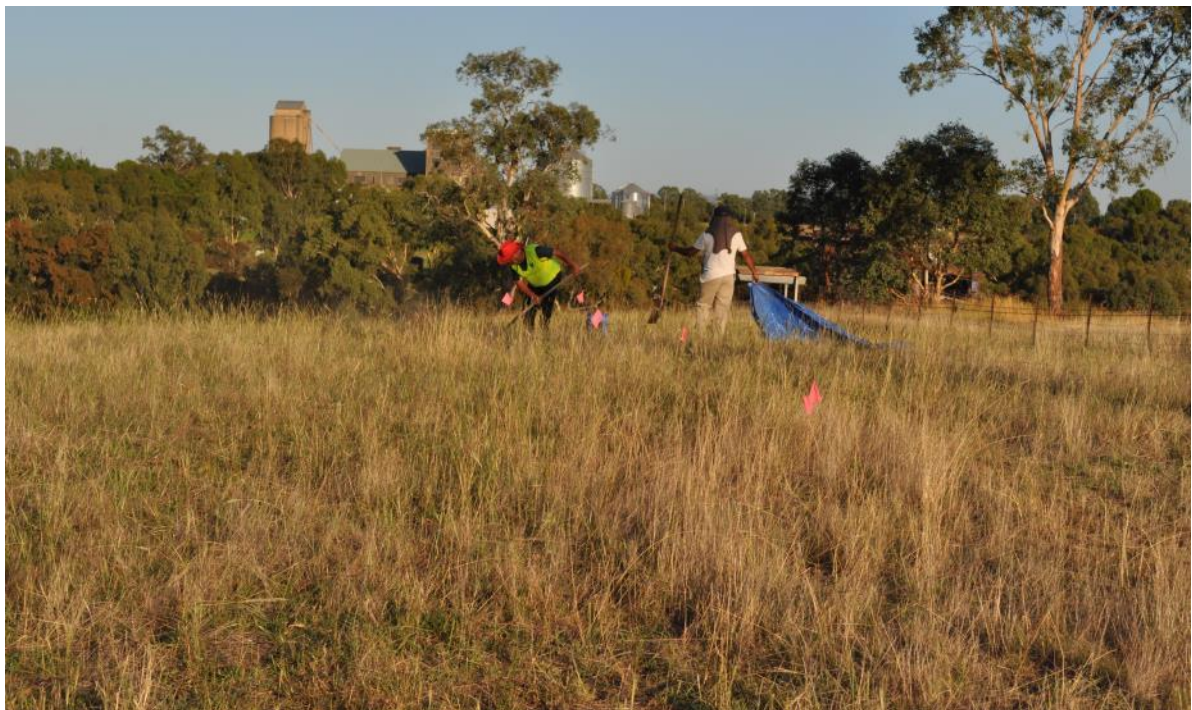


Plate 23. View west across PAD 4. PAD 3 is situated on the viewers side of the trees in background.

The soil of the test area consisted of moderately compact orange-brown silty sand. The upper levels were largely devoid of gravels, with rolled gravels increasing with depth. Overall the soil profile above clay was shallow, averaging 250-300mm.



Plate 24. General soil profile of PAD 4

### 7.3.5 Test Excavation PAD 5.

PAD 5 is the crest of a knoll ~450m east of PAD 4 and the edge of the floodplain. It was selected for testing as a PAD as it is a raised area of level ground adjacent to a watercourse which is intermittently wide and swampy, as well as being relatively close to the Lachlan River corridor. The investigation transect comprised six test pits spaced five metres apart in a single transect (Figure 9, Plate 25). The soil of the test area consisted of very compact gravel rich orange-brown silty sand. Overall the soil profile above clay was shallow, averaging 150-200mm. **No cultural material was found in the test pits of PAD 5.**



Figure 9. Test pits at PAD 5



Plate 25. View west across PAD 5, Transect 1. Probe F is closest to viewer.



Plate 26. Soil profile, PAD 5.

### 7.3.6 Test Excavation PAD 6.

PAD 6 is extensive, and comprises a broad spur crest and upper slopes approximately 450m long and 250m wide. At its south eastern extent it terminates adjacent to the Lachlan River floodplain and a junction with a major tributary of the Lachlan River. Although the PAD extends from this point north west to the current rail corridor it would be expected that the more sensitive part of this PAD would be that portion closest to the Lachlan River.

The area of PAD 6 crossed by the proposed bypass route is ~250m long, and for this reason two transects of probes were excavated. Transect 1 was the more northerly and consisted of six test pits spaced five metres apart (Figures 10,11, Plate 27). Transect 2 was the more southerly of the two and consisted of five test pits spaced five metres apart. (Figures 10,11, Plate 28).

The soil profile encountered at PAD 6 was silty sand between 300mm and 700mm deep, over an orange sandy clay base. The upper levels were a grey to dark grey humic silty sand, underlain by tan/beige silty sand. Pelletal gravels increased at ~400mm. **No cultural material was found in Transects 1 or 2 of PAD 6.**

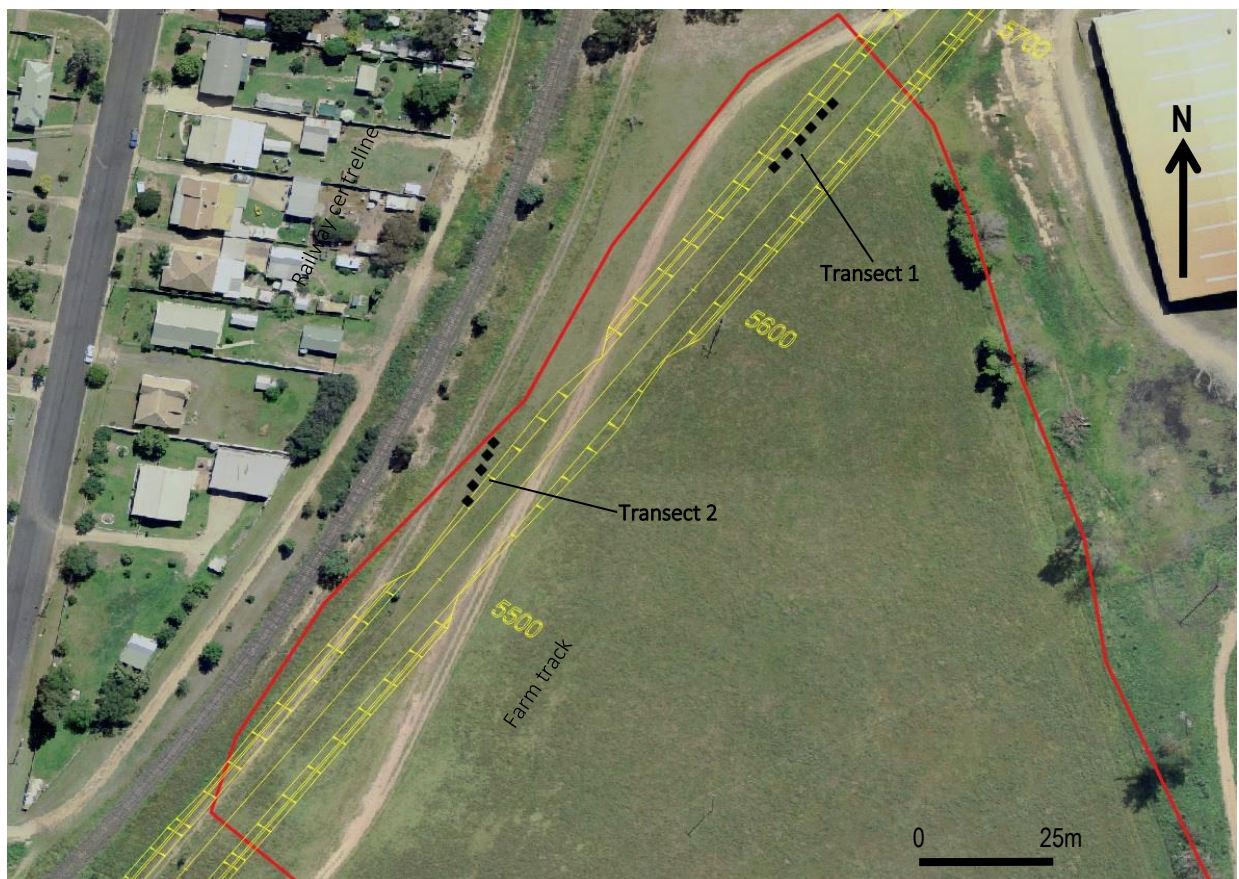


Figure 10. Transect location at PAD 6

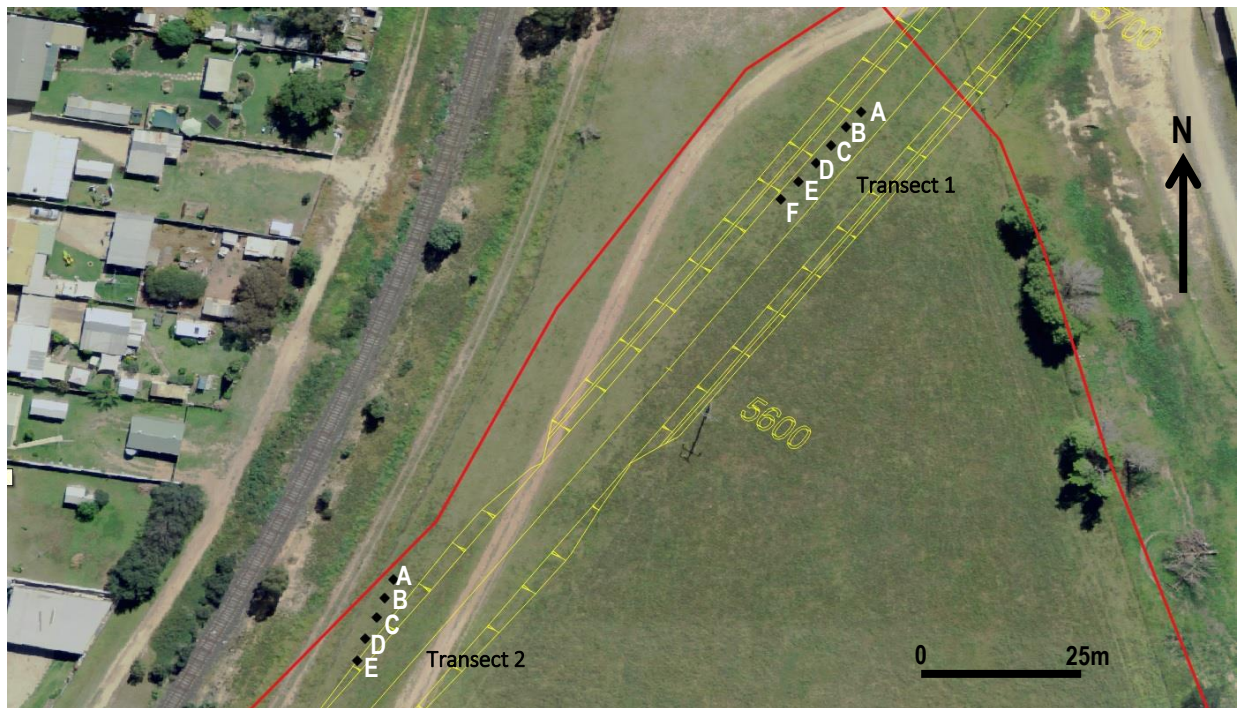


Figure 11. Location of probes at PAD 6

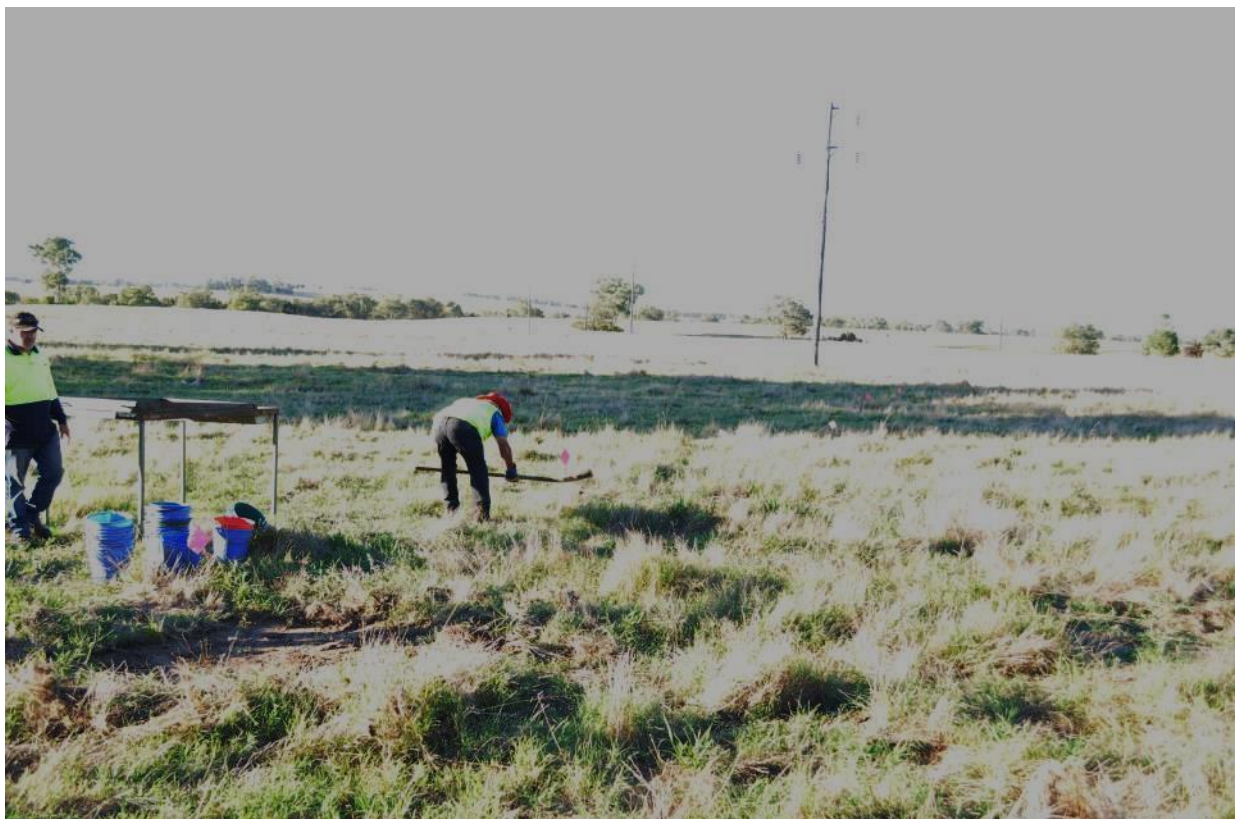


Plate 27. View south east across PAD 6/Transect 1. Probe A is in cleared patch in lower left foreground



Plate 28. View south across PAD 6/Transect 2. Probe A has been excavated and backfilled in lower right foreground



Plate 29. General soil profile at PAD 6

### 7.3.7 Test Excavation PAD 7.

PAD 7 is located on the margins of a creekline tributary of the Lachlan River. It comprises a narrow terrace and gentle slopes on the western side of the creek. It is in a zone of considerable disturbance, with a bitumen road on the eastern side between the PAD and the creek, and the rail line to the west. A dwelling and sheds has been constructed to the north and there has been a structure at the area's southern extent in the past. Despite the potential for Aboriginal objects to remain at the site, the potential for the area to be disturbed is high. The area was tested with a single transect of six test pits spaced five metres apart (Figure 12, Plate 30).

PAD 7 exhibited a relatively deep soil profile, which would be expected as a creek terrace and generally aggrading land form. Overall probes averaged 650mm depth, and the top 450mm bore evidence of European occupation in the form of glass, metal and ceramic fragments of a variety of colours and sizes, though mainly small. Spits 1 and 2 of probe A contained dense slag and fire cracked rock suggesting the presence of a fire event in the recent past.

**No Aboriginal cultural material was found in the test probes of PAD 7.**



Figure 12. Probes at PAD 7



Plate 30. View north east across probes at PAD 7. Probe F marked by pink flag closest to viewer



Plate 31. General soil profile, PAD 7

## 8. DISCUSSION

The archaeological survey component of this project was hampered by low visibility conditions, but nonetheless identified three surface Aboriginal stone artefacts and seven potential archaeological deposits. The results of the subsurface testing program indicate that while Aboriginal archaeological material is indeed present under the ground surface, it is heavily concentrated near the Lachlan River corridor. Only PADs 1, 2 and 3 exhibited cultural material of Aboriginal origin, with one isolated surface artefact at PAD 6. PADs 4, 5 and 7 were devoid of archaeological material at a density able to be detected using the methodology employed. If any Aboriginal sites occur in these locations they will take the form of very sparse scatters of small stone artefacts.

PAD 1 yielded four artefacts from 1.5m<sup>2</sup> of excavated material, or an overall density of 2.67/m<sup>2</sup>. As the proposed route will be constructed over the existing graded track it is in an area of high disturbance and as a consequence will not have a high impact on the overall site at PAD 1.

PAD 2 yielded 1 artefact from 1m<sup>2</sup> of excavation, albeit at considerable depth, or an overall density of 1.0/m<sup>2</sup>. The proposed location has undergone disturbance from the construction of infrastructure related to the Cowra power station, the rail corridor and associated tracks. The landform tested by this project is extensive, taking up the western side of the Lachlan River for several kilometres. Crossing this landform from east to west is a very low impact activity compared to the size of the landform, and as a consequence should be regarded as having very little impact on Aboriginal objects.

PAD 3 yielded 1 object identified as an Aboriginal implement, it being made of glass. This is unusual in the local area and may indicate a discrete location of archaeological research potential. The uptake of European materials for adaptation and use in a traditional Aboriginal manner was common, but occurred for only a brief period of time in the history of south east Australia. While the discovery of such an object in a survey is unusual, although not unheard of, discovery in a stratified context is unusual and the potential to record and observe a collection of contact artefacts *insitu* affords a rare opportunity. If the proposed route will be constructed as presently indicated, the location surrounding the probe from which the glass artefact was recovered should be subject to more extensive hand excavation, prior to development. While avoidance of the location in question would not be difficult, avoidance of the landform in which they were found would be more challenging. The test probes were placed at the northern end of an extensive levee deposit which extends south, becoming higher ~100m to the south. This entire levee has the same, if not greater, archaeological potential and would need to be investigated if the route was realigned in that direction. The levee tapers off further to the north, being absent on the northern side of the rail reserve.

Artefacts 1-3 recorded during surface survey will be disturbed by the proposed works. Individually these artefacts have low significance, but being protected by the National Parks and Wildlife Act (NSW) 1974 they require an Aboriginal Heritage Impact Permit prior to works proceeding.

The project recorded one historic feature near PAD 2, a concrete tank in the bank of the Lachlan River. It was part of the operation of the Cowra Power Station and also associated with some mid 20<sup>th</sup> century stories of Aboriginal use of that part of the river. The feature is an interesting piece of industrial architecture from the perspective of local stories, but is not in of itself significant, and is not part of the local or state heritage inventory. If the feature can be avoided in the design and construction process it would be desirable to do so, but if it cannot then it should be recorded for posterity prior to construction of the bypass.

## 9. MANAGEMENT RECOMMENDATIONS.

Pursuant to the information provided above, it is recommended that:

1. Artefacts 1, 2 and 3 will require an AHIP prior to development. The local Aboriginal community should be afforded the opportunity to salvage these objects should they so wish.
2. The area designated PAD 1 for this project is an Aboriginal site, in the form of a scatter of stone artefacts. The results of this project suggest its density is sparse to moderate. As the proposed bypass will be constructed mainly in the existing graded road corridor it will not have a high impact on the archaeological resources of the site. Permission to disturb PAD 1 should be included in an AHIP prepared for the project.
3. The area designated PAD 2 for this project is an Aboriginal site in the form of a sparse scatter of stone artefacts. The PAD area is extensive and the proposed bypass route will have a low overall impact. Permission to disturb PAD 2 should be included in an AHIP prepared for the project.
4. The Area designated PAD 3 for this project is an Aboriginal archaeological site in the form of a scatter of potential glass artefacts originating on a prior surface now some 250mm below the current surface of the levee deposit. Glass artefacts found in a stratified context are uncommon, and it is recommended that the feature identified in PAD 3/Transect1/Probe E be subject to salvage excavation to mitigate the impact of road construction on a potentially discrete archaeological feature. The salvage of this feature should be included in the overall AHIP sought for this project.
5. The area designated PAD 4 for this project is NOT a Potential Archaeological Deposit and requires no further archaeological assessment.
6. The area designated PAD 5 for this project is NOT a Potential Archaeological Deposit and requires no further archaeological assessment.
7. The area of PAD 6 crossed by the proposed route does not contain a scatter of artefacts of sufficient density to be detected by the methodology employed, but the presence of an artefact on the far track suggests the possibility that sparse stone artefacts may exist at the locality. Permission to disturb PAD 6 should be included in an AHIP prepared for the project.
8. The area designated PAD 7 for this project is NOT a Potential Archaeological Deposit and requires no further archaeological assessment.
9. Subsequent to the issue of the project AHIP, ground breaking work at 2 and 3 should be monitored by personnel with experience in the identification of Aboriginal human remains and stone / glass artefacts.
10. If during construction remains are found suspected to be of human origin work must cease immediately and the site responsible personnel must immediately contact the local police and the NSW OEH. The find site must be isolated and all machinery and personnel moved a minimum of 50m away. Work may continue at an alternative project location.
11. The proponent should implement an 'Ad Hoc Archaeological Discovery' protocol, such as that attached to this report, or an alternative agreed plan formalised in the project AHIP.
12. The proponent should note the location of the historic feature and avoid if possible in the design process, although neither it nor the power station buildings are on state or local registers and therefore not covered by protective provisions of the Heritage Act (NSW) 1977. If the feature cannot be avoided in the design process it is recommended that it be subject to an archival recording involving the preparation of measured drawings (plans and cross section) and photography.
13. If the proposed route is realigned prior to construction it must be subject to further assessment for its potential to disturb Aboriginal heritage.

The proponent, their employees and agents are reminded that it is an offence under the National Parks and Wildlife Act (NSW) 1974 to destroy, deface or otherwise disturb an Aboriginal Object without first obtaining the consent of the Director General of the NSW NPWS.

## 10. REFERENCES

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## Advertisement, Notifications, Method Statement, Written Responses

**PROPOSED METHODS**  
for  
Aboriginal Cultural Heritage Assessment  
of  
Proposed Heavy Vehicle By-Pass,  
Cowra NSW.

By  
Doug Williams

April 2015



PO Box 816  
MORYUA NSW 2537

Phone: 0412 997177  
E-mail: [doug@accessarchaeology.com](mailto:doug@accessarchaeology.com)

# **1. INTRODUCTION**

## **1.1 Background**

Cowra City Council is preparing a Review of Environmental Factors for a proposed Heavy vehicle By-pass of Cowra, to be known as the 'Southern Ring Road'. The road will be c.8.4km long, and follow approximately the southern outskirts of Cowra. From the west, it will leave Grenfell Road at Airport Road, following Airport road to Boundary Road. At the eastern end of Boundary Road it will follow Fishburn Street around to the Lachlan Valley Way, and cross the Lachlan River. From that point it will approximately follow Campbell Street to its intersection with the Mid Western Highway (Figure 1). Part of this alignment will be an upgrade and widening of the existing road, and part will be construction of a new carriageway, including a new river crossing.

## **1.2 The Nature of the Development**

The project elements described above will involve linear disturbance to specific corridors up to 30m wide. Road cuttings will cut through undulations, and topsoil will be removed and stockpiled to allow for laying of road base and subsequent works rehabilitation. We estimate the study of a ~50m wide corridor.

# **2. PROPOSED METHODS**

We propose to survey the entirety of the proposed by pass route on foot. We would use GPS-enabled field data loggers to accurately follow the proposed study corridor, and also to record any sites or potential sites. This would entail 8.4km of linear field walking, although there may be some backtracking to get to vehicles. We would examine the ground surface for stone artefacts, any mature eucalypts on or near the route for Aboriginal scars, and any stone outcrops for evidence of Aboriginal quarrying. Near the river margins we would be aware of shell middens. Other site types are unlikely to present themselves on field survey, but we would record any features or sites considered to be of Aboriginal origin.

Surface visibility conditions in some parts of the area may be poor. Where it is determined that there is high archaeological potential for artefacts to be present on or under the surface, but they are obscured by grass or leaf litter the survey team may decide to excavate some test pits and sieve the excavated material. The test pits would be 50cm x 50cm, placed no closer than 5m apart. They would be excavated by shovel and would be screened through a 5mm mesh. Any artefacts found would be recorded in the field and returned to the excavation hole at their approximate original depth when the hole is backfilled.

A report would be written describing the results of the study and circulated to stakeholders for comment.



0 300 600 900m  
SCALE 1:30,000 AT ORIGINAL SIZE



COWRA SHIRE COUNCIL  
COWRA HEAVY VEHICLE  
BYPASS STUDY  
OPTION 3

Job Number 23-16385  
Revision A  
Date NOV 2012

Figure 06

## In Memoriam

*With fond memories  
of our dear friend*

**Tracy Lea**

Colleen & Neisha

RM2271103

## Funeral Notices

**Barry RYAN (Senior)**

Passed away 18th March 2015

Aged 71 years

Late of St Marys Sydney & formerly of Cowra

Barry's family & friends are respectfully invited to attend his funeral to be held at St Raphaels Catholic Church Cowra, commencing at 11.00am on Friday 27th March 2015.

Thence to the Cowra Cemetery.

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## ABORIGINAL PERSONS OR ORGANISATIONS

desiring to be consulted in relation to an Aboriginal Cultural Heritage Assessment near Cowra NSW may register their interest in writing to: Doug Williams Access Archaeology & Heritage PO Box 816 MORUYA NSW 2537 T: 0412 997177 E: [dwiliams@accessarchaeology.com](mailto:dwiliams@accessarchaeology.com)

Expressions of interest must include current contact details and a statement of any particular cultural knowledge of the area. Registrations accepted up to COB, 6 April 2015.

\*Registration does not guarantee employment during fieldwork.

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In you were in Year 10 (4th form) in 1975 or Year 12 (6th form) in 1977 at Cowra High, we are having a reunion on Saturday of the June long weekend. To be held at Mulligan's Wongara Winery on the Grenfell Road (the Bunker). Cost is \$65 per person, including dinner and music. BYOG. If you would like more information or plan to attend, please PM me on facebook and I will be happy to help. There were 105 of us in 1975 and it would be great to see as many as possible at the reunion. Of course partners are also welcome. Cheers. Belinda Mort.

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PO Box 126, Cowra NSW 2794  
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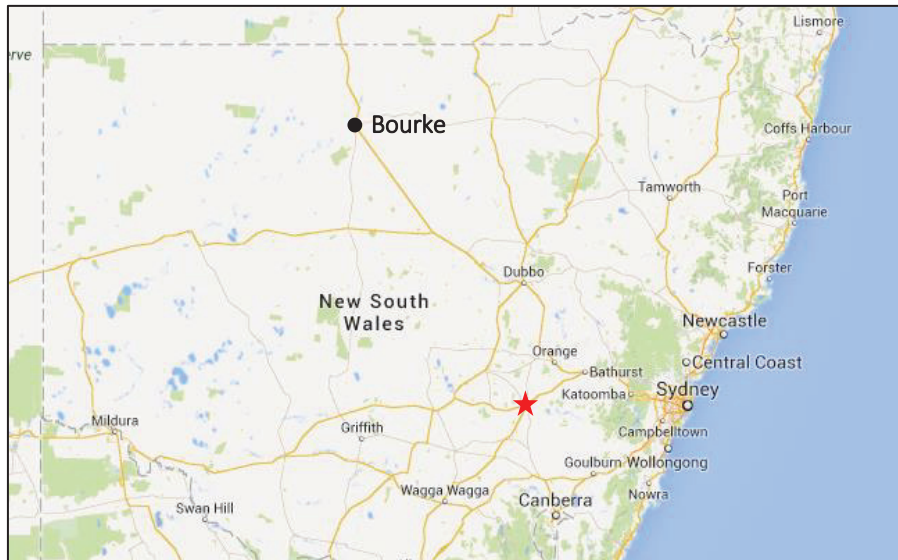
Mr Stephen Wright  
The Registrar,  
Aboriginal Land Rights Act 1983  
PO Box 112  
GLEBE NSW 2037

Dear Mr Wright

**Aboriginal Cultural Heritage Consultation for Proposed Cowra Bypass, near Cowra NSW.**

Access Archaeology & Heritage Pty Ltd is seeking to identify Aboriginal persons or organisations who wish to be consulted in relation to an archaeological assessment of the proposed Cowra bypass. The location of the study is indicated with a red star in Figure 1.

**FIGURE 1. SITE LOCATION**



The proponent of the proposed development is Cowra City Council, in partnership with the NSW RMS. The purpose of this consultation is to assist in the preparation of an Aboriginal Cultural Heritage Assessment and an Aboriginal Heritage Impact Permit if required. If you are aware of any Aboriginal people who may hold cultural knowledge relevant to determining the significance of Aboriginal objects and/or places, could you please forward contact details at your earliest convenience. Your assistance in this matter is greatly appreciated.

Yours sincerely

**DOUG WILLIAMS**

0412 997 177

[dwilliams@accessarchaeology.com](mailto:dwilliams@accessarchaeology.com)

PO Box 816  
MORUYA NSW 2537

Our reference: CB\_ACHA\_20150329\_LALC

Your Reference:

Date: 29/03/2015

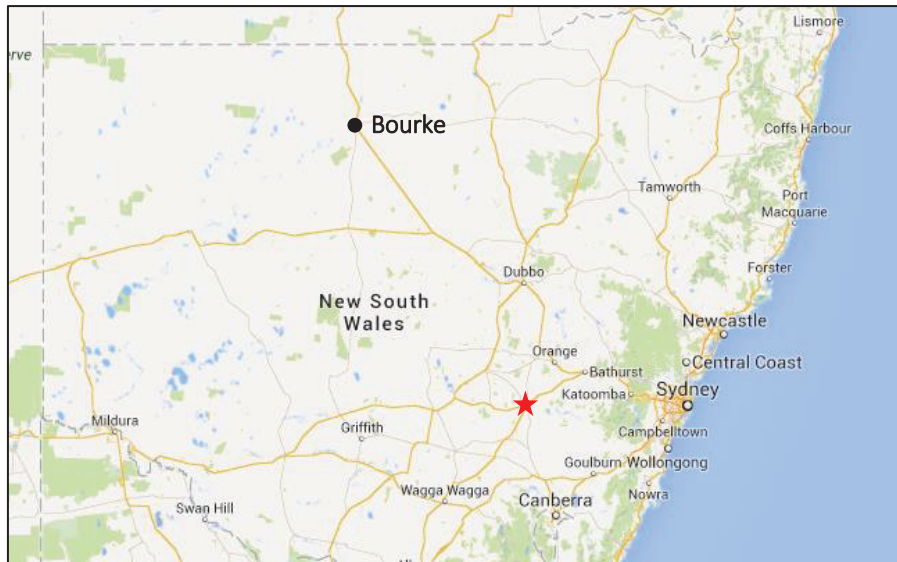
The Chairperson  
Cowra LALC,  
PO Box 769  
COWRA NSW 2794

Dear Sir/Madam

**Aboriginal Cultural Heritage Consultation for Proposed Cowra Bypass, near Cowra NSW.**

Access Archaeology & Heritage Pty Ltd is seeking to identify Aboriginal persons or organisations who wish to be consulted in relation to an archaeological assessment of the proposed Cowra bypass. The location of the study is indicated with a red star in Figure 1.

**FIGURE 1. SITE LOCATION**



The proponent of the proposed development is Cowra City Council, in partnership with the NSW RMS. The purpose of this consultation is to assist in the preparation of an Aboriginal Cultural Heritage Assessment and an Aboriginal Heritage Impact Permit if required. If the Cowra LALC would like to be consulted regarding this project please contact me at your earliest convenience. If you are aware of any Aboriginal people who may hold cultural knowledge relevant to determining the significance of Aboriginal objects and/or places, it would be appreciated if could you forward contact details. Your assistance in this matter is greatly appreciated.

Yours sincerely

**DOUG WILLIAMS**

0412 997 177

[dwilliams@accessarchaeology.com](mailto:dwilliams@accessarchaeology.com)

PO Box 816  
MORUYA NSW 2537

Our reference: CB\_ACHA\_20150329\_LLS

Your Reference:

Date: 29/03/2015

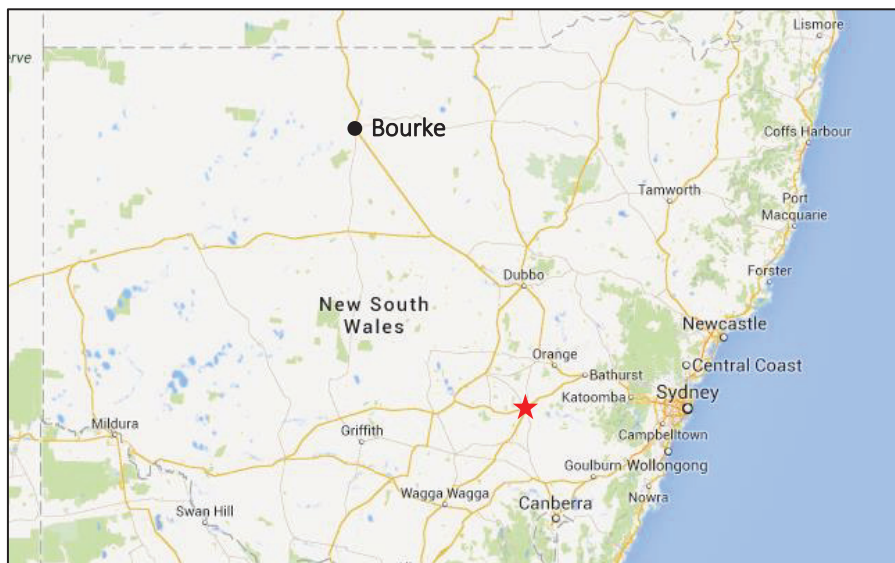
Central Tablelands Local Lands Services Board  
PO Box 20  
BATHURST NSW 2795

Dear Sir/Madam

**Aboriginal Cultural Heritage Consultation for Proposed Cowra Bypass, near Cowra NSW.**

Access Archaeology & Heritage Pty Ltd is seeking to identify Aboriginal persons or organisations who wish to be consulted in relation to an archaeological assessment of the proposed Cowra bypass. The location of the study is indicated with a red star in Figure 1.

**FIGURE 1. SITE LOCATION**



The proponent of the proposed development is Cowra City Council, in partnership with the NSW RMS. The purpose of this consultation is to assist in the preparation of an Aboriginal Cultural Heritage Assessment and an Aboriginal Heritage Impact Permit if required. If you are aware of any Aboriginal people who may hold cultural knowledge relevant to determining the significance of Aboriginal objects and/or places, could you please forward contact details at your earliest convenience. Your assistance in this matter is greatly appreciated.

Yours sincerely

**DOUG WILLIAMS**

0412 997 177

[dwilliams@accessarchaeology.com](mailto:dwilliams@accessarchaeology.com)

PO Box 816  
MORUYA NSW 2537

Our reference: CB\_ACHA\_20150329\_NNTT

Your Reference:

Date: 29/03/2015

National Native Title Tribunal  
GPO Box 9973  
Sydney NSW 2000

Dear Sir/Madam

**Aboriginal Cultural Heritage Consultation for Proposed Cowra Bypass, near Cowra NSW.**

Access Archaeology & Heritage Pty Ltd is seeking to identify Aboriginal persons or organisations who wish to be consulted in relation to an archaeological assessment of the proposed Cowra bypass. The location of the study is indicated with a red star in Figure 1.

**FIGURE 1. SITE LOCATION**



The proponent of the proposed development is Cowra City Council, in partnership with the NSW RMS. The purpose of this consultation is to assist in the preparation of an Aboriginal Cultural Heritage Assessment and an Aboriginal Heritage Impact Permit if required. If you are aware of any Aboriginal people who may hold cultural knowledge relevant to determining the significance of Aboriginal objects and/or places, could you please forward contact details at your earliest convenience. Your assistance in this matter is greatly appreciated.

Yours sincerely

**DOUG WILLIAMS**

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[dwilliams@accessarchaeology.com](mailto:dwilliams@accessarchaeology.com)

PO Box 816  
MORUYA NSW 2537

Our reference: CB\_ACHA\_20150329\_NTSCorp

Your Reference:

Date: 29/03/2015

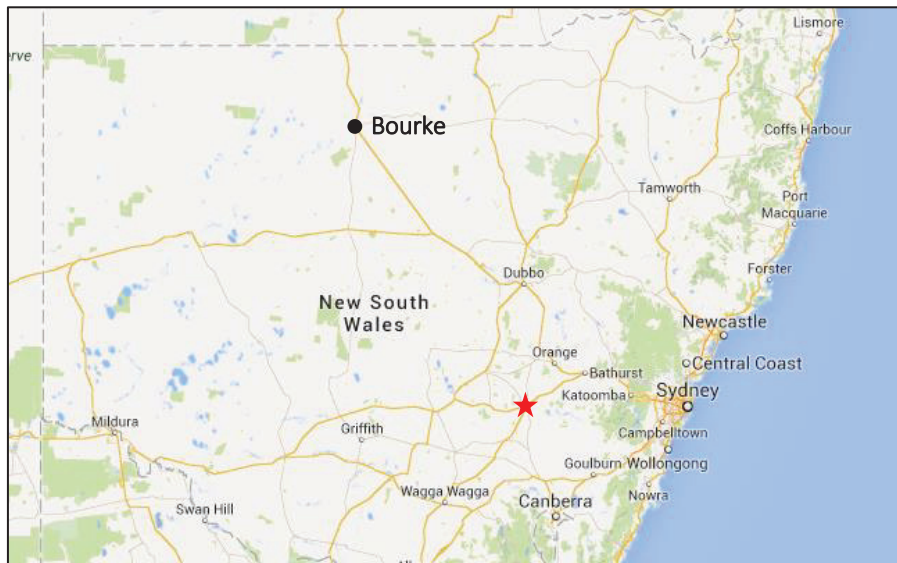
Native Title Services Corporation  
PO Box 2105  
Strawberry Hills NSW 2016

Dear Sir/Madam

**Aboriginal Cultural Heritage Consultation for Proposed Cowra Bypass, near Cowra NSW.**

Access Archaeology & Heritage Pty Ltd is seeking to identify Aboriginal persons or organisations who wish to be consulted in relation to an archaeological assessment of the proposed Cowra bypass. The location of the study is indicated with a red star in Figure 1.

**FIGURE 1. SITE LOCATION**



The proponent of the proposed development is Cowra City Council, in partnership with the NSW RMS. The purpose of this consultation is to assist in the preparation of an Aboriginal Cultural Heritage Assessment and an Aboriginal Heritage Impact Permit if required. If you are aware of any Aboriginal people who may hold cultural knowledge relevant to determining the significance of Aboriginal objects and/or places, could you please forward contact details at your earliest convenience. Your assistance in this matter is greatly appreciated.

Yours sincerely

**DOUG WILLIAMS**

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[dwilliams@accessarchaeology.com](mailto:dwilliams@accessarchaeology.com)

PO Box 816  
MORUYA NSW 2537

Our reference: CB\_ACHA\_20150329\_OEH

Your Reference:

Date: 29/03/2015

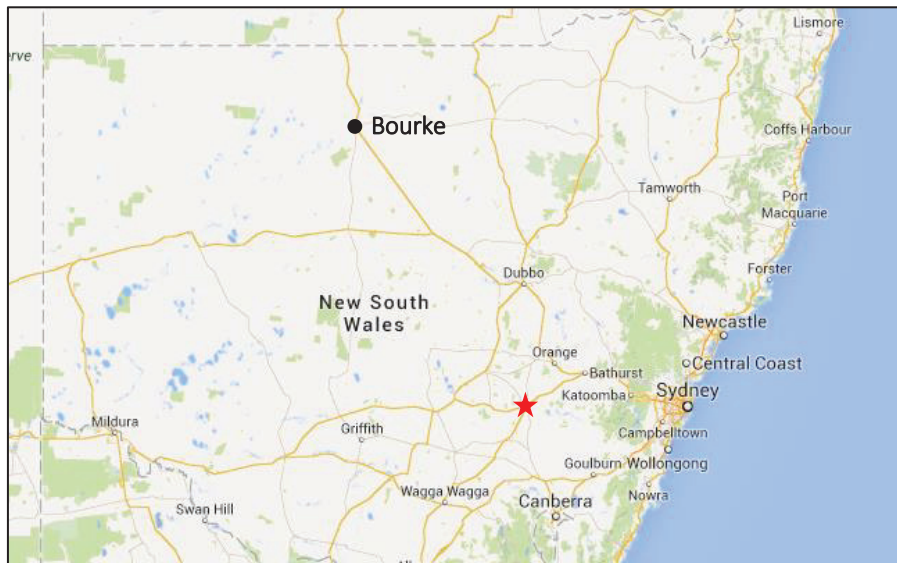
Mr Paul Houston  
Office of Environment and Heritage  
DUBBO NSW 2830

Dear Mr Houston,

**Aboriginal Cultural Heritage Consultation for Proposed Cowra Bypass, near Cowra NSW.**

Access Archaeology & Heritage Pty Ltd is seeking to identify Aboriginal persons or organisations who wish to be consulted in relation to an archaeological assessment of the proposed Cowra bypass. The location of the study is indicated with a red star in Figure 1.

**FIGURE 1. SITE LOCATION**



The proponent of the proposed development is Cowra City Council, in partnership with the NSW RMS. The purpose of this consultation is to assist in the preparation of an Aboriginal Cultural Heritage Assessment and an Aboriginal Heritage Impact Permit if required. If you are aware of any Aboriginal people who may hold cultural knowledge relevant to determining the significance of Aboriginal objects and/or places, could you please forward contact details at your earliest convenience. Your assistance in this matter is greatly appreciated.

Yours sincerely

**DOUG WILLIAMS**

0412 997 177

[dwilliams@accessarchaeology.com](mailto:dwilliams@accessarchaeology.com)

PO Box 816  
MORUYA NSW 2537

## Doug Williams

---

**From:** Ian.shepherd <ian.shepherd@lls.nsw.gov.au>  
**Sent:** Thursday, 2 April 2015 8:07 AM  
**To:** dwilliams@accessarchaeology.com  
**Subject:** Cowra Shire Council

Hi Doug, please see below message from ACH Officer, Larry Towney.

Hi Doug

If you contact the Cowra Shire they have a comprehensive local Aboriginal consultation policy that they use to inform the local Aboriginal community of any impact/intended on cultural sites within their shire, all interested Aboriginal groups are included in that policy and is working very well Happy to catch up and have a discussion if you need to  
Regards

Larry  
Sent from my iPad

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## Doug Williams

---

**From:** Cowra LALC <cowralalc@hotmail.com>  
**Sent:** Tuesday, 7 April 2015 2:59 PM  
**To:** dwilliams@accessarchaeology.com  
**Subject:** Proposed Cowra By-pass

Dear Mr Williams

The Cowra Local Aboriginal Land Council would like to be consulted on the proposed Cowra by-pass and informed on future developments.

Regards

*Les Coe*

*(Yirrundah Marrang/Yarma)*

Acting Chief Executive Officer

**COWRA LOCAL ABORIGINAL LAND COUNCIL**

Lot 124 Fishburn St (PO Box 769)

COWRA NSW 2794

Ph: 02 6342 3259

Mob: 0405 589 371

[cowralalc@hotmail.com](mailto:cowralalc@hotmail.com)

ABN 938 529686 80

**Note:** The information contained in this email is confidential. If you are not the intended recipient, you may not disclose or use the information in any way. Cowra Local Aboriginal Land Council does not guarantee the integrity of any email. Office Hours Monday – Wednesday 9am-5pm.



Please consider the environment before printing this e-mail.

*The Cowra Local Aboriginal Land Council represents the Wiradjuri nation and acknowledges the nations and owners of country throughout Australia, and their continuing connection to land, sea and community. We pay our respects to them and their cultures, and to the Elders both past and present.*

## Doug Williams

---

**From:** Doug Williams <dwilliams@accessarchaeology.com>  
**Sent:** Thursday, 21 May 2015 6:26 AM  
**To:** cowralalc@hotmail.com; 'cowralalc@bigpond.com'  
**Subject:** Cowra heavy vehicle bypass  
**Attachments:** Method Statement.pdf

Dear Ms Coe,

Access Archaeology and Heritage has been engaged by Geolyse to undertake an Aboriginal Heritage Assessment of the alignment of the proposed Heavy Vehicle Bypass of Cowra. I have attached a brief document describing how we propose to approach the assessment, I'm sure you will be very familiar with the general process.

Later today I would like to discuss Cowra LALC availability for a field survey, and if you have any comments on the proposed approach, please let me know.

Regards

Doug Williams

**Doug Williams** Director

---

 31D The Anchorage (PO Box 816)  
MORUYA NSW 2537  
Phone 0412 997 177  
Email: [dwilliams@accessarchaeology.com](mailto:dwilliams@accessarchaeology.com)  
[www.accessarchaeology.com](http://www.accessarchaeology.com)

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## Doug Williams

---

**From:** Doug Williams <dwilliams@accessarchaeology.com>  
**Sent:** Friday, 22 May 2015 3:18 PM  
**To:** 'David Walker' (dwalker@geolyse.com)  
**Subject:** Cowra

Hi David,

So the Cowra community seems fairly difficult to track down.

Despite their expressing interest in the project, the LALC is non-operational at present, there are moves afoot to try to revive it. So after some delving I have contacted representatives of:

Wiradjuri Mens Group  
Mooka Bulla Traditional Owners  
Yarrowarra Hillford Aboriginal Corporation  
Kalari Ngunnawal Descendants,

In addition to an email to [cowralalc@hotmail.com](mailto:cowralalc@hotmail.com).

Not all of the names on the excel sheet you sent me have been contacted – most of the numbers are disconnected.

So now I am pushing them for an inspection early next week. I will call them tomorrow and Sunday. One lady wanted a meeting and then an inspection, perhaps that can be fitted in.

Regards

Doug



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## Doug Williams

---

**From:** Doug Williams <dwilliams@accessarchaeology.com>  
**Sent:** Friday, 22 May 2015 2:46 PM  
**To:** 'jangrey@hotmail.com'  
**Subject:** Cowra heavy vehicle bypass  
**Attachments:** Method Statement.pdf

Ms Jan Grey  
Yarrawarra Hillford Aboriginal Corporation

Dear Ms Grey,

Today I left a message on your answering machine making reference to this email. Please find attached a brief method statement regarding my proposed approach to the Aboriginal heritage assessment of the proposed Cowra heavy vehicle bypass. I have discussed the project with another member of the YHAC, Ms Francis Kennedy. I would like to organise an inspection (survey) of the route as soon as possible, preferably next week.

Could you please let me know :

- a) Whether your group is interested in participating in the survey personally or you have a representative,
- b) Your availability
- c) Any fees you would charge to attend.
- d) If attending a field survey, whether your group is covered by insurances relevant to field work (public liability, workers compensation etc).

I look forward to talking to you more about this project.

Regards

Doug Williams

**Doug Williams** Director

---

 **Access**  
Archaeology & Heritage

31D The Anchorage (PO Box 816)  
MORUYA NSW 2537  
Phone 0412 997 177  
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## Doug Williams

---

**From:** Doug Williams <dwilliams@accessarchaeology.com>  
**Sent:** Friday, 22 May 2015 2:48 PM  
**To:** 'ringram6033@gmail.com'  
**Subject:** Cowra heavy vehicle bypass  
**Attachments:** Method Statement.pdf

Ms Rebecca Ingram,  
Kalari Ngunnawal Descendants

With reference to our phone call today, please find attached a brief method statement regarding our proposed approach to the Aboriginal heritage assessment of the proposed Cowra heavy vehicle bypass. I would like to organise an inspection (survey ) of the route as soon as possible, preferably next week.

Could you please let me know :

- a) Whether you are interested in participating in the survey personally or you have a representative,
- b) Your availability
- c) Any fees you would charge to attend.
- d) Whether your groups are covered by insurances relevant to field work (public liability, workers compensation etc).

I look forward to taking to you more about this project.

Regards

Doug



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## Doug Williams

---

**From:** Doug Williams <dwilliams@accessarchaeology.com>  
**Sent:** Friday, 22 May 2015 2:42 PM  
**To:** 'chappy7659@yahoo.com.au'  
**Subject:** Cowra heavy vehicle bypass  
**Attachments:** Method Statement.pdf

Mr Neville Williams  
Mooka Bulla Traditional Owners & Wiradjuri Mens Group

Dear Neville,

With reference to our phone call today, please find attached a brief method statement regarding our proposed approach to the Aboriginal heritage assessment of the proposed Cowra heavy vehicle bypass. I would like to organise an inspection (survey ) of the route as soon as possible, preferably next week.

Could you please let me know :

- a) Whether you are interested in participating in the survey personally or you have a representative,
- b) Your availability
- c) Any fees you would charge to attend.
- d) Whether your groups are covered by insurances relevant to field work (public liability, workers compensation etc).

I look forward to taking to you more about this project.

Regards

Doug

**Doug Williams** Director

---

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Archaeology & Heritage

310 The Anchorage (PO Box 816)  
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Email: [dwilliams@accessarchaeology.com](mailto:dwilliams@accessarchaeology.com)  
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## Doug Williams

---

**From:** Doug Williams <dwilliams@accessarchaeology.com>  
**Sent:** Tuesday, 26 May 2015 5:26 PM  
**To:** 'jangrey56@hotmail.com'  
**Subject:** FW: Cowra heavy vehicle bypass  
**Attachments:** Method Statement.pdf

Ms Jan Grey  
Yarrawarra Hillford Aboriginal Corporation

Dear Ms Grey,

Please find attached a brief method statement regarding my proposed approach to the Aboriginal heritage assessment of the proposed Cowra heavy vehicle bypass. I have discussed the project with another member of the YHAC, Ms Francis Kennedy. I would like to organise an inspection (survey ) of the route as soon as possible, preferably next week.

Could you please let me know :

- a) Whether your group is interested in participating in the survey personally or you have a representative,
- b) Your availability
- c) Any fees you would charge to attend.
- d) If attending a field survey, whether your group is covered by insurances relevant to field work (public liability, workers compensation etc).

I look forward to taking to you more about this project.

Regards

Doug Williams



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## Doug Williams

---

**From:** jannet grey <jangrey56@hotmail.com>  
**Sent:** Tuesday, 26 May 2015 6:53 PM  
**To:** Doug Williams  
**Subject:** Re: Cowra heavy vehicle bypass

Hi Doug

thank you for your invite as I mentioned today we have a young man who has been doing this for a long time his name is Rick Waters mob 0488043588 he is reliable and punctual and if you wish to meet with me you have my number  
regards Jan

Sent from Windows Mail

---

**From:** [Doug Williams](#)  
**Sent:** Tuesday, 26 May 2015 5:44 PM  
**To:** [jannet grey](#)

Ms Jan Grey  
Yarrawarra Hillford Aboriginal Corporation

Dear Ms Grey,

Please find attached a brief method statement regarding my proposed approach to the Aboriginal heritage assessment of the proposed Cowra heavy vehicle bypass. I have discussed the project with another member of the YHAC, Ms Francis Kennedy. I would like to organise an inspection (survey ) of the route as soon as possible, preferably next week.

Could you please let me know :

- a) Whether your group is interested in participating in the survey personally or you have a representative,
- b) Your availability
- c) Any fees you would charge to attend.
- d) If attending a field survey, whether your group is covered by insurances relevant to field work (public liability, workers compensation etc).

I look forward to taking to you more about this project.

Regards

Doug Williams

---

**Doug Williams** Director

 **Access**  
Archaeology & Heritage

31D The Anchorage (PO Box 816)  
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## Doug Williams

---

**From:** Doug Williams <dwilliams@accessarchaeology.com>  
**Sent:** Monday, 1 June 2015 1:42 PM  
**To:** 'amkege01@hotmail.com'  
**Subject:** Cowra By-Pass

Hello Amanda,

I have been given your email address by David Walker of Geolyse. I am an archaeologist charged with preparing an Aboriginal heritage assessment of the proposed route. I note recent correspondence of yours suggesting knowledge of Traditional Aboriginal children's graves on or near the proposed route. I would be very interested in learning more about this as clearly it may have a significant bearing on the assessment, or at least any further work that might have to occur in order to properly assess the proposal.

Regards

Doug Williams



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## Doug Williams

---

**From:** Doug Williams <dwilliams@accessarchaeology.com>  
**Sent:** Tuesday, 2 June 2015 10:45 AM  
**To:** 'bandyone@hotmail.com'  
**Subject:** Cowra heavy vehicle bypass  
**Attachments:** Method Statement.pdf

Ms Eva Coe,  
Kalari Ngunnawal Descendants

With reference to our phone call today, please find attached a brief method statement regarding our proposed approach to the Aboriginal heritage assessment of the proposed Cowra heavy vehicle bypass. I would like to organise an inspection (survey ) of the route as soon as possible, preferably this week.

I appreciate you may have objections to the use of the proposed route. I believe this process of assessment would be the most comprehensive way of placing these objections in a string context, and the first step would be to walk the route to identify sites and potential sites.

Could you please let me know :

- a) Whether you are interested in participating in the survey personally or you have a representative,
- b) Your availability
- c) Any fees you would charge to attend.
- d) Whether your groups are covered by insurances relevant to field work (public liability, workers compensation etc).

I look forward to taking to you more about this project.

Regards

Doug

**Doug Williams** Director

---

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## Doug Williams

---

**From:** Doug Williams <dwilliams@accessarchaeology.com>  
**Sent:** Wednesday, 3 June 2015 4:06 PM  
**To:** bandyone@hotmail.com  
**Subject:** Cowra heavy vehicle bypass

Dear Eva,

Thank you for your phone call today. I am pleased to advise that we will be conducting fieldwork on Friday 5 and Saturday 6 June 2015. We will be meeting at the corner of the Grenfell Road and Airport road between 9 and 9.30 on Friday morning. I look forward to seeing your representatives there.

Regards

Doug

**Doug Williams** Director

---

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## Doug Williams

---

**From:** Phil PURCELL <Phil.Purcell@environment.nsw.gov.au>  
**Sent:** Friday, 16 October 2015 8:56 AM  
**To:** Doug Williams; Paul Houston  
**Subject:** RE: Subsurface testing, Cowra

Understood.

Regards

phil

---

**From:** Doug Williams [<mailto:dwilliams@accessarchaeology.com>]  
**Sent:** Thursday, 15 October 2015 6:30 PM  
**To:** Phil PURCELL; Paul Houston  
**Subject:** Subsurface testing, Cowra

Dear Phil and Paul,

Please be advised that AAH will be undertaking subsurface testing in Cowra within 2 weeks of this letter (all things going to plan). AAH has been engaged to prepare an ACHA of the proposed Cowra bypass, and we will be undertaking sub surface testing of areas identified as having archaeological potential during a field survey, under the *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales*. We will be engaging selected Aboriginal representatives identified during consultation undertaken following the *Aboriginal cultural heritage consultation requirements for proponents 2010*

I will let you know when the exact date has been decided.

Regards

Doug

**Doug Williams** Director

---

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Archaeology & Heritage

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MORUYA NSW 2537  
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## Doug Williams

---

**From:** Doug Williams <dwilliams@accessarchaeology.com>  
**Sent:** Friday, 12 February 2016 10:39 AM  
**To:** 'Phil PURCELL'  
**Subject:** RE: Subsurface testing, Cowra  
**Attachments:** PADmap.jpg

Hello Phil,

For a variety of reasons the test excavation noted below has not occurred yet, but has been arranged for next week.

The locations identified for testing are all locally raised, level topography in proximity to water sources of varying magnitude. I have attached a map showing the extent of these PADs.

Subsurface testing will be undertaken along the nominal centre line of the proposed Cowra bypass. Test pits will be 50cm x 50cm in area and excavated in 5cm spits, screened through 5mm mesh. Pits will not be closer than 5m apart, in linear groups of 5 or 10, depending on the size of the PAD.

Artefacts will be retained for measurement and analysis, and registered Aboriginal parties will be consulted on the final location of these objects as part of the project.

Regards

Doug



=====

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---

**From:** Phil PURCELL [<mailto:Phil.Purcell@environment.nsw.gov.au>]  
**Sent:** Friday, 16 October 2015 8:56 AM  
**To:** Doug Williams; Paul Houston  
**Subject:** RE: Subsurface testing, Cowra

Understood.

Regards

phil

---

**From:** Doug Williams [<mailto:dwilliams@accessarchaeology.com>]  
**Sent:** Thursday, 15 October 2015 6:30 PM  
**To:** Phil PURCELL; Paul Houston  
**Subject:** Subsurface testing, Cowra

Dear Phil and Paul,

Please be advised that AAH will be undertaking subsurface testing in Cowra within 2 weeks of this letter (all things going to plan). AAH has been engaged to prepare an ACHA of the proposed Cowra bypass, and we will be undertaking sub surface testing of areas identified as having archaeological potential during a field survey, under the *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales*. We will be engaging selected Aboriginal representatives identified during consultation undertaken following the *Aboriginal cultural heritage consultation requirements for proponents 2010*

I will let you know when the exact date has been decided.

Regards

Doug



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## Doug Williams

---

**From:** Doug Williams <dwilliams@accessarchaeology.com>  
**Sent:** Monday, 2 May 2016 3:18 PM  
**To:** chappy7659@yahoo.com.au  
**Subject:** Draft cowra bypass ACHA report  
**Attachments:** CowraByPassACHA\_REVC.pdf

Dear Neville,

I hope you are well. Please find attached a draft report of the subsurface test pitting we did a while back. Could you review and let me know if you have any comments please.

I don't think I have an email address for Esther, do you think you could assist in getting a copy of this report to her, or let me know if she has an email address?

Regards

Doug Williams



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## Doug Williams

---

**From:** Doug Williams <dwilliams@accessarchaeology.com>  
**Sent:** Monday, 2 May 2016 3:55 PM  
**To:** Muliyanwaters (muliyawaters@gmail.com)  
**Subject:** Draft cowra bypass ACHA report  
**Attachments:** CowraByPassACHA\_REVC.pdf

Dear Muliyan,

Please find attached a copy of the draft ACHA report for the Cowra bypass. I look forward to your comments

Regards

Doug Williams

**Doug Williams** Director

---

 31D The Anchorage (PO Box 816)  
MORUYA NSW 2537  
Phone 0412 997 177  
Email: [dwilliams@accessarchaeology.com](mailto:dwilliams@accessarchaeology.com)  
[www.accessarchaeology.com](http://www.accessarchaeology.com)

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## Doug Williams

---

**From:** Doug Williams <dwilliams@accessarchaeology.com>  
**Sent:** Tuesday, 3 May 2016 1:28 PM  
**To:** 'cowralalc@bigpond.com'  
**Subject:** ACHA  
**Attachments:** CowraByPassACHA\_REVC.pdf

Hello,

Some time ago the LALC expressed interest in this project, but at the time it was done the organisation seemed to be in hiatus. If you have any comments I would be happy to include them.

Regards

Doug

**Doug Williams** Director

---

 31D The Anchorage (PO Box 816)  
MORUYA NSW 2537  
Phone 0412 997 177  
Email: [dwilliams@accessarchaeology.com](mailto:dwilliams@accessarchaeology.com)  
[www.accessarchaeology.com](http://www.accessarchaeology.com)

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Attachment 2

## Consultation Register

Date	Entity Contacted	Person/Position Contacted	Contacted by	Contact Method	Subject
29/03/2015	Dept Aboriginal Affairs	The Registrar	Doug Williams, AAH	Letter, by email	Seeking to identify Aboriginal persons/orgsanisations with an interest in the project
29/03/2015	Cowra Council	Not Specified	Doug Williams, AAH	Letter, by email	Seeking to identify Aboriginal persons/orgsanisations with an interest in the project
29/03/2015	Cowra LALC	Eva Coe, Chair	Doug Williams, AAH	Letter, by email	Seeking to identify Aboriginal persons/orgsanisations with an interest in the project
29/03/2015	Central Tablelands Local Land Services Board	Not Specified	Doug Williams, AAH	Letter, by email	Seeking to identify Aboriginal persons/orgsanisations with an interest in the project
29/03/2015	National Native Title Tribunal	Not Specified	Doug Williams, AAH	Letter, by email	Seeking to identify Aboriginal persons/orgsanisations with an interest in the project
29/03/2015	Native Title Services Corporation Ltd	Not Specified	Doug Williams, AAH	Letter, by email	Seeking to identify Aboriginal persons/orgsanisations with an interest in the project
29/03/2015	NSW Office of Environement & Heritage - Dubbo	Paul Houston	Doug Williams, AAH	Letter, by email	Seeking to identify Aboriginal persons/orgsanisations with an interest in the project
31/03/2015	AAH	Doug Williams	Peter Sparkes, CTLLS	Email	Larry Towney will be in touch
2/04/2015	AAH	Doug Williams	Larry Towner, LLS	Email	Contact Cowra Council, they have a list of contacts
21/05/2015	Cowra LALC	Eva Coe	Doug Williams, AAH	Email	method statement
22/05/2015	Wiradjuri Mens Group	Jason Munro	Doug Williams, AAH	Phone	Called 0415202036, not connected
22/05/2015	Mooka Bulla Traditional Owners	John Coe	Doug Williams, AAH	Phone	Called 0406652043, not connected
22/05/2015	Wiradjuri Mens Group	Neville Williams	Doug Williams, AAH	Phone	Discused project, NW expressed interest in being involved
22/05/2015	Wiradjuri Mens Group	Neville Williams	Doug Williams, AAH	email	method statement
22/05/2015	Mooka Bulla Traditional Owners	Tom Lowe	Doug Williams, AAH	Phone	called 63425103, not connected
22/05/2015	Mooka Bulla Traditional Owners	Esther Cutmore	Doug Williams, AAH	Phone	not connected
22/05/2015	Kalari Ngunnawal Descendants	Eva Coe	Doug Williams, AAH	Phone	Called 0405286323, not connected
22/05/2015	Yarrawarra Hillford Aboriginal Corp	Frances Kennedy	Doug Williams, AAH	Phone	Interested in project, suggested call Jan grey
22/05/2015	Yarrawarra Hillford Aboriginal Corp	Jan Grey	Doug Williams, AAH	Phone	No Answer
22/05/2015	Kalari Ngunnawal Descendants	Rebecca Ingram	Doug Williams, AAH	Phone	No Answer
22/05/2015	Kalari Ngunnawal Descendants	Rebecca Ingram	Doug Williams, AAH	Email	method statement
23/05/2015	Yarrawarra Hillford Aboriginal Corp	Jan Grey	Doug Williams, AAH	Phone	Interested in project, has a person to participate, Rick Waters
26/05/2015	Yarrawarra Hillford Aboriginal Corp	Jan Grey	Doug Williams, AAH	Email	Method Statement
26/05/2015	AAH	Doug Williams	Jan Grey	Email	Response to method staement and Rick Waters phone number
1/06/2015	Interested citizen	Amanda	Doug Williams, AAH	Email	interested to hear more of accounts of burials on the route
2/06/2015	Kalari Ngunnawal Descendants	Eva Coe	Doug Williams, AAH	Email	method statement
3/06/2015	Wiradjuri Mens Group	Neville Williams	Doug Williams, AAH	Phone	Agreed fieldwork dates
3/06/2015	Mooka Bulla Traditional Owners	Esther Cutmore	Doug Williams, AAH	Phone	Agreed fieldwork dates
	Yarrawarra Hillford Aboriginal Corp	Rick Waters	Doug Williams, AAH	Phone	Agreed fieldwork dates
3/06/2015	AAH	Doug Williams	Eva Coe	Phone	Discussed fieldwork
3/06/2015	Eva Coe	Eva Coe	Doug Williams, AAH	Email	Advised of fieldwork dates
5/06/2015	AAH	Doug Williams	Rebecca Ingram	Phone	Asking when fieldwork commences, will attend later in the day

Date	Entity Contacted	Person/Position Contacted	Contacted by	Contact Method	Subject
5/06/2015	AAH	Doug Williams	Rebecca Ingram	Phone	Will attend fieldwork after lunch
15/10/2015	OEH	Phil Purcell	Doug Williams, AAH	Email	notification of fieldwork
16/10/2015	AAH	Doug Williams	Phil Purcell	Email	Acknowledge notification
12/02/2016	OEH	Phil Purcell	Doug Williams, AAH	Email	notification of revised date for fieldwork
5/02/2016	Wiradjuri Mens Group	Neville Williams	Doug Williams, AAH	Phone	Arrange excavation fieldwork
5/02/2016	Mooka Bulla Traditional Owners	Esther Cutmore	Doug Williams, AAH	Phone	Arrange excavation fieldwork
5/02/2016	Yarrawarra Hillford Aboriginal Corp	Rick 'Muliyan' Waters	Doug Williams, AAH	Phone	Arrange excavation fieldwork. No Answer
2/05/2016	Yarrawarra Hillford Aboriginal Corp	Rick 'Muliyan' Waters	Doug Williams, AAH	Email	Draft report for comment (NIL response)
2/05/2016	Wiradjuri Mens Group	Neville Williams	Doug Williams, AAH	Email	Draft report for comment
2/05/2016	Mooka Bulla Traditional Owners	Neville Williams	Doug Williams, AAH	Email	Draft report for comment
22/05/2015	Kalari Ngunnawal Descendants	Rebecca Ingram	Doug Williams, AAH	Email	Draft report for comment
2/05/2016	Mooka Bulla Traditional Owners	Esther Cutmore	Doug Williams, AAH	Email	Draft report for comment
3/05/2016	Cowra LALC	CEO	Doug Williams, AAH	Email	Draft report for comment (NIL response)
27/05/2016	AAH	Doug Williams	Neville Williams and Esther Cutmore	Phone Call	Report is comprehensive and good quality, recommendations are endorsed. Please not back of misison used as stock route.

## Subsurface Probe Photographs

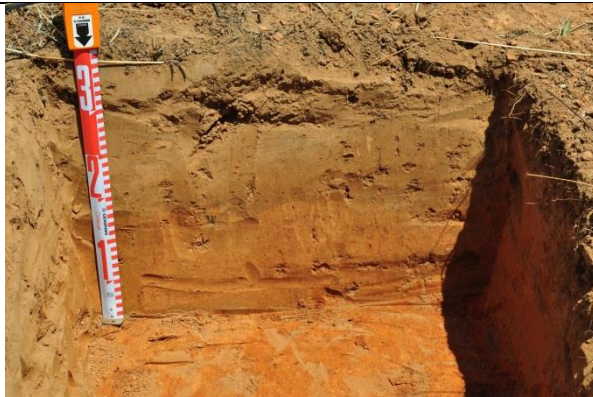
## PAD 1



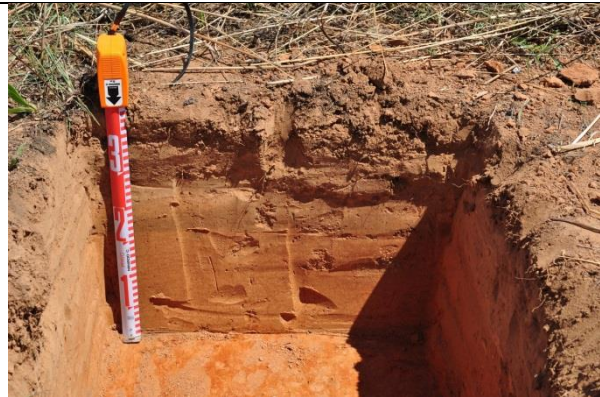
PAD 1, Transect 1, Probe A South wall



PAD 1, Transect 1, Probe B South wall



PAD 1, Transect 1, Probe C South wall



PAD 1, Transect 1, Probe E South wall



PAD 1, Transect 1, Probe F South wall

## PAD 2



PAD 2 Transect 1 Probe A East wall



PAD 2 Transect 1 Probe B North wall



PAD 2 Transect 1 Probe C North wall



PAD 2 Transect 1 Probe D North wall

## PAD 3



PAD 3 Transect 1, Probe A North Wall



PAD 3 Transect 1, Probe B North Wall



PAD 3 Transect 1, Probe C North Wall



PAD 3 Transect 1, Probe D North Wall



PAD 3 Transect 1, Probe E North Wall



PAD 3 Transect 1, Probe F North Wall

## PAD 4



PAD 4 Transect 1 Probe A East Wall



PAD 4 Transect 1 Probe B East Wall



PAD 4, Transect 1, Probe C, North Wall



PAD 4, Transect 1, Probe D, North Wall



PAD 4, Transect 1, Probe E, North Wall



PAD 4, Transect 1, Probe F, North Wall

## PAD 5



PAD 5 Transect 1, Probe A, North Wall



PAD 5 Transect 1, Probe B, North Wall



PAD 5 Transect 1, Probe C, North Wall



PAD 5 Transect 1, Probe D, North Wall



PAD 5 Transect 1, Probe E, North Wall



PAD 5 Transect 1, Probe F, North Wall

## PAD 6



PAD 6 Transect 1, Probe A, North Wall



PAD 6 Transect 1, Probe B, North Wall



PAD 6 Transect 1, Probe C, North Wall



PAD 6 Transect 1, Probe D, North Wall



PAD 6 Transect 1, Probe E, North Wall



PAD 6 Transect 1, Probe F, North Wall



PAD 6 Transect 2, Probe A, West Wall



PAD 6 Transect 2, Probe B, West Wall



PAD 6 Transect 2, Probe C, West Wall

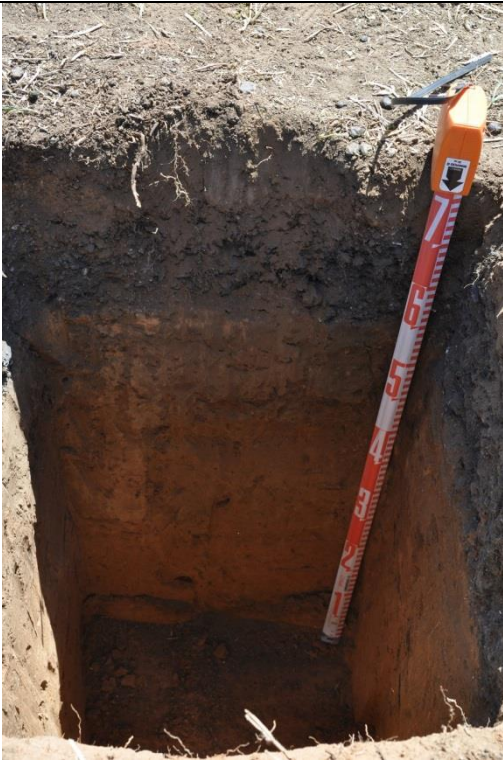


PAD 6 Transect 2, Probe D, West Wall



PAD 6 Transect 2, Probe E, West Wall

## PAD 7



PAD 7 Transect 1, Probe A, North Wall



PAD 7 Transect 1, Probe B, North Wall



PAD 7 Transect 1, Probe C, North Wall



PAD 7 Transect 1, Probe D, North Wall



PAD 7 Transect 1, Probe E, West Wall



PAD 7 Transect 1, Probe F, West Wall

Attachment 4

## Subsurface Probe Records

PAD	T'SECT	Probe	Level	L	W	D	Aboriginal Artefacts	European Artefacts	Deposit notes
1	1	A	1	500	500	50		Brown glass	Very soft fine grey/tan silty loam
1	1	A	2	500	500	100		Brown glass	Very soft fine grey/tan silty loam
1	1	A	3	500	500	150		Brown and clear glass	As above, mottled at base with tan compact deposit
1	1	A	4	500	500	200	1 silcrete DF		Tan compact silty loam
1	1	A	5	500	500	250			Tan compact silty loam
1	1	A	6	500	500	300	1 CGS flake		As above, but increasing gravel pellets to 10mm dia
1	1	A	7	500	500	350			As above
1	1	A	8	500	500	375			c.30mm into spit the soil abruptly changed to an orange compact clay
1	1	B	1	500	500	50		Brown glass and clear patterned glass	Very soft fine grey/tan silty loam
1	1	B	2	500	500	100		Brown and clear glass	Very soft fine grey/tan silty loam, compactness increasing
1	1	B	3	500	500	150		Brown glass	As above, increasingly compact
1	1	B	4	500	500	200		Brown and clear glass	As above
1	1	B	5	500	500	250	1 Quartz flake	Brown glass	As above
1	1	B	6	500	500	300			As above
1	1	B	7	500	500	350			As above , red/brown compact clay at base.
1	1	C	1	500	500	50		Brown and clear glass, plastic button	Very soft fine grey/tan silty loam
1	1	C	2	500	500	100	1 Quartz flake	Brown and clear glass	Very soft fine grey/tan silty loam, compactness increasing
1	1	C	3	500	500	150			As above, increasingly compact
1	1	C	4	500	500	200			As above
1	1	C	5	500	500	250			As above
1	1	C	6	500	500	300			As above
1	1	C	7	500	500	340			As above , red/brown compact clay at base.
1	1	D	1	500	500	50		Brown glass and plastic frag	Very soft fine grey/tan silty loam
1	1	D	2	500	500	100		Brown, L.Green and clear glass, small rusted metal frag	Very soft fine grey/tan silty loam, compactness increasing
1	1	D	3	500	500	150		Brown, L.Green glass, small rusted metal frag	As above, increasingly compact
1	1	D	4	500	500	200			As above
1	1	D	5	500	500	250			As above
1	1	D	6	500	500	300		Clear patterned glass	As above
1	1	D	7	500	500	340			As above , red/brown compact clay at base.
1	1	E	1	500	500	50		Brown, clear glass, fibro fragments, brown plastic frag	Very soft fine grey/tan silty loam
1	1	E	2	500	500	100		Clear glass, black rubber frag	Very soft fine grey/tan silty loam, compactness increasing
1	1	E	3	500	500	150			As above, increasingly compact
1	1	E	4	500	500	200		Brown, clear glass,brown plastic frag	As above
1	1	E	5	500	500	250			As above
1	1	E	6	500	500	300			As above

1	1	E	7	500	500	340			As above , red/brown compact clay at base.
1	1	F	1	500	500	50		Brown, clear, Lgreen glass, 3 plastic frags 1 metal frag	Very soft fine grey/tan silty loam
1	1	F	2	500	500	120		Brown, clear glass 2 plastic frags	Very soft fine grey/tan silty loam, compactness increasing
1	1	F	3	500	500	180		Brown glass 1 metal frag	As above, increasingly comact
1	1	F	4	500	500	250		1 plastic frag	As above
1	1	F	5	500	500	300			As above
1	1	F	6	500	500	330			As above , red/brown compact clay at base.
2	1	A	1	500	500	50			Very dense blue metal
2	1	A	2	500	500	100		White ceramic frag	Very dense blue metal
2	1	A	3	500	500	160		White glass jar frag, brown glass	Very dense blue metal, decreasing gravel
2	1	A	4	500	500	220		Brown and green glass, white ceramic frag	Significant decreae in gravel content, soil is fine, mid brown silty sand
2	1	A	5	500	500	250		Brown, clear glass, metal fragment, porcelain fragment	Significant decreae in gravel content, soil is fine, mid brown silty sand
2	1	A	6	500	500	300		2 clear glass fragments	Blue metal absent, soil has some larger water worn pebbles.
2	1	A	7	500	500	380		White ceramic frag	Blue metal absent, soil has some larger water worn pebbles, very compact.
2	1	A	8	500	500	420			Blue metal absent, soil has some larger water worn pebbles, very compact.
2	1	A	9	500	500	500			Fine mid brown silty sand, less compact and damp.
2	1	A	10	500	500	560			Fine mid brown silty sand, less compact and damp.
2	1	A	11	500	500	620			Fine mid brown silty sand, less compact and damp.
2	1	A	12	500	500	700	1 quartz flake		As above but more compact at base
2	1	A	13	500	500	750			As above, very compact and dry
2	1	B	1	500	500	50		Brown and clear glass frags	Very dense blue metal, fine mid brown silty sand
2	1	B	2	500	500	120			Blue metal prolific but decreasing, soil as above
2	1	B	3	500	500	160		Brown glass frags, 1 white ceramic frag	Blue metal absent, soil as above, and contains rolled pebbles to 20mm dia
2	1	B	4	500	500	200			fine mid brown silty sand containin rolled pebbles to 20mm dia
2	1	B	5	500	500	250			fine mid brown silty sand containin rolled pebbles to 20mm dia
2	1	B	6	500	500	300			As above but very compact
2	1	B	7	500	500	350			Very compact fine silty sand, gravel absent
2	1	B	8	500	500	400			Very compact fine silty sand, gravel absent
2	1	B	9	500	500	450			Very compact fine silty sand, gravel absent
2	1	B	10	500	500	500			Very compact fine silty sand, gravel absent
2	1	B	11	500	500	550			Very compact fine silty sand, gravel absent
2	1	B	12	500	500	600			Fine silty sand, less compact and damp
2	1	B	13	500	500	670			Fine silty sand, less compact and damp
2	1	B	14	500	500	740			Fine silty sand, less compact and damp
2	1	C	1	500	500	50		Brown and clear glass frags	Very dense blue metal, fine mid brown silty sand

2	1	C	2	500	500	120		Brown Glass frags.	fine mid brown silty sand, gravel decreasing
2	1	C	3	500	500	170		Brown glass frags, 1 brown ceramic, 1 white ceramic	fine mid brown silty sand, very sparse blue metal
2	1	C	4	500	500	210		Small green glass and clear glass frag	fine mid brown silty sand, very sparse blue metal, and sparse natural pebbles
2	1	C	5	500	500	250		small green and brown glass frags	fine mid brown silty sand, very sparse blue metal, and sparse natural pebbles
2	1	C	6	500	500	300			fine mid brown silty sand, no bebbles, very compact
2	1	C	7	500	500	350			fine mid brown silty sand, no bebbles, very compact
2	1	C	8	500	500	400			fine mid brown silty sand, no bebbles, very compact
2	1	C	9	500	500	480			fine mid brown silty sand, no bebbles, very compact
2	1	C	10	500	500	530			fine mid brown silty sand, no bebbles, very compact
2	1	C	11	500	500	580			fine mid brown silty sand, no bebbles, very compact
2	1	C	12	500	500	650			fine mid brown silty sand, no bebbles, very compact
2	1	D	1	500	500	50			Very dense blue metal, fine mid brown silty sand
2	1	D	2	500	500	100			Blue metal prolific but decreasing, soil as above
2	1	D	3	500	500	160		Brown glass fragments	sharp decrease in blue metal, soil as above, very compact
2	1	D	4	500	500	200		Brown glass fragments	Fine mid brown silty sand, very compact
2	1	D	5	500	500	250			Spit encountered a dense layer of water rolled pebbles and 1 large cobble
2	1	D	6	500	500	300			gravel layer continues into this spit
2	1	D	7	500	500	360			very compact fine silty sand, gravel decreasing
2	1	D	8	500	500	420			very compact fine silty sand, gravel decreasing
2	1	D	9	500	500	500			very compact fine silty sand, gravel decreasing
2	1	D	10	500	500	580			Orange brown sand, sparse, small water rolled pellets
2	1	D	11	500	500	650			Orange brown sand, sparse, small water rolled pellets
2	1	D	12	500	500	720			Orange brown sand, sparse, small water rolled pellets
3	1	A	1	500	500	50			soft, fine mid brown silty sand
3	1	A	2	500	500	100			soft, fine mid brown silty sand
3	1	A	3	500	500	150			soft, fine mid brown silty sand
3	1	A	4	500	500	200			soft, fine mid brown silty sand
3	1	A	5	500	500	260			soft, fine mid brown silty sand
3	1	A	6	500	500	320			soft, fine mid brown silty sand
3	1	A	7	500	500	370			soft, fine mid brown silty sand
3	1	A	8	500	500	420			soft, fine mid brown silty sand
3	1	A	9	500	500	470			fine mid brown silty sand, compact
3	1	A	10	500	500	510			fine mid brown silty sand, compact.
3	1	A	11	500	500	560			fine mid brown silty sand, compact
3	1	A	12	500	500	620			fine mid brown silty sand, compact
3	1	B	1	500	500	50			soft, fine mid brown silty sand
3	1	B	2	500	500	100			soft, fine mid brown silty sand

3	1	B	3	500	500	150			soft, fine mid brown silty sand
3	1	B	4	500	500	210			soft, fine mid brown silty sand
3	1	B	5	500	500	270			soft, fine mid brown silty sand
3	1	B	6	500	500	310			soft, fine mid brown silty sand
3	1	B	7	500	500	350			soft, fine mid brown silty sand
3	1	B	8	500	500	400			soft, fine mid brown silty sand
3	1	B	9	500	500	450			fine mid brown silty sand, compact
3	1	B	10	500	500	500			fine mid brown silty sand, compact. Sawn cow bone this spit
3	1	B	11	500	500	550			fine mid brown silty sand, compact
3	1	B	12	500	500	620			fine mid brown silty sand, compact
3	1	C	1	500	500	50			soft, fine mid brown silty sand
3	1	C	2	500	500	100			soft, fine mid brown silty sand
3	1	C	3	500	500	150			soft, fine mid brown silty sand
3	1	C	4	500	500	200			soft, fine mid brown silty sand
3	1	C	5	500	500	250			soft, fine mid brown silty sand
3	1	C	6	500	500	300			soft, fine mid brown silty sand
3	1	C	7	500	500	350			soft, fine mid brown silty sand
3	1	C	8	500	500	420			soft, fine mid brown silty sand
3	1	C	9	500	500	450			soft, fine mid brown silty sand
3	1	C	10	500	500	550			soft, fine mid brown silty sand
3	1	D	1	500	500	50			soft, fine mid brown silty sand
3	1	D	2	500	500	100			soft, fine mid brown silty sand
3	1	D	3	500	500	160			soft, fine mid brown silty sand
3	1	D	4	500	500	210		Iron railway dog	soft, fine mid brown silty sand
3	1	D	5	500	500	260			soft, fine mid brown silty sand
3	1	D	6	500	500	310			soft, fine mid brown silty sand
3	1	D	7	500	500	370			soft, fine mid brown silty sand
3	1	D	8	500	500	450			soft, fine mid brown silty sand
3	1	D	9	500	500	500			soft, fine mid brown silty sand
3	1	D	10	500	500	560			soft, fine mid brown silty sand
3	1	D	11	500	500	650			soft, fine mid brown silty sand
3	1	E	1	500	500	50			Moderately compact mid brown silty sand, no gravel
3	1	E	2	500	500	100			loose mid brown silty sand
3	1	E	3	500	500	150			loose mid brown silty sand
3	1	E	4	500	500	200			loose mid brown silty sand
3	1	E	5	500	500	250	potential glass artefact	7 glass pieces, 1 poss utilised, 3 flakes. 1 white ceramic frag	loose mid brown silty sand
3	1	E	6	500	500	380		2 light green glass fragments, 1 a small flake <10mm	compact mid brown silty sand
3	1	E	7	500	500	440			compact mid brown silty sand
3	1	E	8	500	500	510			compact mid brown silty sand

3	1	E	9	500	500	640			compact mid brown silty sand
3	1	F	1	500	500	50			Moderately compact mid brown silty sand, no gravel
3	1	F	2	500	500	100			Moderately compact mottled mid brown/light brown silty sand, no gravel
3	1	F	3	500	500	160			Moderately compact mottled mid brown/light brown silty sand, no gravel
3	1	F	4	500	500	220			Moderately compact mottled mid brown/light brown silty sand, no gravel
3	1	F	5	500	500	250			Moderately compact mottled mid brown/light brown silty sand, no gravel
3	1	F	6	500	500	300			Moderately compact mottled mid brown/light brown silty sand, no gravel
3	1	F	7	500	500	350			Moderately compact mottled mid brown/light brown silty sand, no gravel
3	1	F	8	500	500	400			Moderately compact mottled mid brown/light brown silty sand, no gravel
3	1	F	9	500	500	450			mottled mid brown/light brown silty sand, very compact, possibly calcified
3	1	F	10	500	500	500			mottled mid brown/light brown silty sand, less compact
3	1	F	11	500	500	550			mottled mid brown/light brown silty sand, less compact
3	1	F	12	500	500	620			mottled mid brown/light brown silty sand, less compact
4	1	A	1	500	500	50			Moderately compact orange brown silty sand, no gravel
4	1	A	2	500	500	110			Moderately compact orange brown silty sand, sparse fractured quartz.
4	1	A	3	500	500	170			Moderately compact orange brown silty sand, minor rolled gravel to 20mm dia
4	1	A	4	500	500	230			As above, more compact
4	1	A	5	500	500	300			As above, base is orange brown very compact sandy clay
4	1	B	1	500	500	50			Moderately compact orange brown silty sand, no gravel
4	1	B	2	500	500	110			Moderately compact orange brown silty sand, sparse fractured quartz.
4	1	B	3	500	500	180			Moderately compact orange brown silty sand, minor rolled gravel to 20mm dia
4	1	B	4	500	500	250			As above, more compact, base is orange brown very compact sandy clay
4	1	C	1	500	500	50			Moderately compact orange brown silty sand, no gravel
4	1	C	2	500	500	100			Moderately compact orange brown silty sand, sparse fractured quartz.
4	1	C	3	500	500	180			Moderately compact orange brown silty sand, minor rolled gravel to 20mm dia

4	1	C	4	500	500	270			As above, more compact, base is orange brown very compact sandy clay
4	1	D	1	500	500	50			Moderately compact orange brown silty sand, no gravel
4	1	D	2	500	500	110			Moderately compact orange brown silty sand, sparse fractured quartz.
4	1	D	3	500	500	170			Moderately compact orange brown silty sand, minor rolled gravel to 20mm dia
4	1	D	4	500	500	250			As above, more compact
4	1	D	5	500	500	330			As above, base is orange brown very compact sandy clay
4	1	E	1	500	500	50			Compact mid brown silty sand, moderate small quartz rounded pebbles
4	1	E	2	500	500	110			mid brown silty sand, moderate small quartz rounded pebbles. Less compact
4	1	E	3	500	500	150			mid brown silty sand, moderate small quartz rounded pebbles.
4	1	E	4	500	500	200			mid brown silty sand, moderate small quartz rounded pebbles. Orange/brown clay at base
4	1	F	1	500	500	50			Moderately compact orange brown silty sand, no gravel
4	1	F	2	500	500	100			Moderately compact orange brown silty sand, sparse fractured quartz.
4	1	F	3	500	500	150			Moderately compact orange brown silty sand, minor rolled gravel to 20mm dia
4	1	F	4	500	500	200			As above, more compact
4	1	F	5	500	500	250			As above, base is orange brown very compact sandy clay
5	1	A	1	500	500	70			Compact mid brown silty sand with prolific rounded gravel
5	1	A	2	500	500	140			Compact mid brown silty sand with prolific rounded gravel
5	1	A	3	500	500	210			Compact mid brown silty sand with prolific rounded gravel
5	1	A	4	500	500	270			Compact mid brown silty sand with prolific rounded gravel
5	1	A	5	500	500	340			Compact mid brown silty sand with prolific rounded gravel, clay at base
5	1	B	1	500	500	70			Very compact gravelly silty sand. V.high gravel content to 50mm dia
5	1	B	2	500	500	140			As above, slightly softer, gravel decreasing
5	1	B	3	500	500	220			As above, slightly softer, gravel decreasing, orange/brown clay at base
5	1	C	1	500	500	50			Very compact, very gravelly mid brown silty sand
5	1	C	2	500	500	120			As above, clay at base
5	1	D	1	500	500	50			Very compact gravelly silty sand. V.high gravel content to 50mm dia
5	1	D	2	500	500	120			As above, slightly softer, gravel decreasing
5	1	D	3	500	500	150			As above, slightly softer, gravel decreasing, orange/brown clay at base

5	1	E	1	500	500	50			Very compact gravelly silty sand. V.high gravel content to 50mm dia
5	1	E	2	500	500	120			As above, slightly softer, gravel decreasing
5	1	E	3	500	500	150			As above, slightly softer, gravel decreasing, orange/brown clay at base
5	1	F	1	500	500	50			Very compact gravelly silty sand. V.high gravel content to 50mm dia
5	1	F	2	500	500	120			Very compact gravelly silty sand. V.high gravel content to 50mm dia
5	1	F	3	500	500	150			As above, increasing clay content through spit and clay at base
6	1	A	1	500	500	50			Grey tan silty sand, humic, grass roots
6	1	A	2	500	500	100			Grey tan silty sand, humic, grass roots
6	1	A	3	500	500	150			Beige silty sand, gravel gradually increasing with depth
6	1	A	4	500	500	200			Beige silty sand, gravel gradually increasing with depth
6	1	A	5	500	500	250			Beige silty sand, gravel gradually increasing with depth
6	1	A	6	500	500	300			Beige silty sand, gravel gradually increasing with depth
6	1	A	7	500	500	350			Beige silty sand, gravel gradually increasing with depth
6	1	A	8	500	500	400			Beige silty sand, gravel gradually increasing with depth
6	1	A	9	500	500	450			sandy silty clay with pelletal gravel
6	1	B	1	500	500	50			Grey tan silty sand, humic, grass roots
6	1	B	2	500	500	100			Grey tan silty sand, humic, grass roots
6	1	B	3	500	500	150			Beige silty sand, gravel gradually increasing with depth
6	1	B	4	500	500	200			Beige silty sand, gravel gradually increasing with depth
6	1	B	5	500	500	250			Beige silty sand, gravel gradually increasing with depth
6	1	B	6	500	500	300			Beige silty sand, gravel gradually increasing with depth
6	1	B	7	500	500	350			Beige silty sand, gravel gradually increasing with depth
6	1	B	8	500	500	400			Yellow/beige silty sandy clay at base
6	1	C	1	500	500	50			Grey tan silty sand, humic, grass roots
6	1	C	2	500	500	100			Grey tan silty sand, humic, grass roots
6	1	C	3	500	500	150			Beige silty sand, gravel gradually increasing with depth
6	1	C	4	500	500	220			Yellow/beige silty sandy clay at base
6	1	D	1	500	500	50			Grey tan silty sand, humic, grass roots
6	1	D	2	500	500	100			Grey tan silty sand, humic, grass roots
6	1	D	3	500	500	150			Beige silty sand, gravel gradually increasing with depth
6	1	D	4	500	500	200			Beige silty sand, gravel gradually increasing with depth
6	1	D	5	500	500	250			Beige silty sand, gravel gradually increasing with depth
6	1	D	6	500	500	300			Beige silty sand, gravel gradually increasing with depth
6	1	D	7	500	500	350			Yellow/beige silty sandy clay at base
6	1	E	1	500	500	50			Grey tan silty sand, humic, grass roots
6	1	E	2	500	500	100			Grey tan silty sand, humic, grass roots
6	1	E	3	500	500	150			Beige silty sand, gravel gradually increasing with depth

6	1	E	4	500	500	200			Beige silty sand, gravel gradually increasing with depth
6	1	E	5	500	500	250			Beige silty sand, gravel gradually increasing with depth
6	1	E	6	500	500	300			Beige silty sand, gravel gradually increasing with depth
6	1	E	7	500	500	350			Beige silty sand, gravel gradually increasing with depth
6	1	E	8	500	500	400			Beige silty sand, gravel gradually increasing with depth
6	1	E	9	500	500	420			Yellow/beige silty sandy clay at base
6	1	F	1	500	500	50			Grey tan silty sand, humic, grass roots
6	1	F	2	500	500	100			Grey tan silty sand, humic, grass roots
6	1	F	3	500	500	150			Beige silty sand, gravel gradually increasing with depth
6	1	F	4	500	500	200			Beige silty sand, gravel gradually increasing with depth
6	1	F	5	500	500	250			Beige silty sand, gravel gradually increasing with depth
6	1	F	6	500	500	300			Beige silty sand, gravel gradually increasing with depth
6	1	F	7	500	500	350			Beige silty sand, gravel gradually increasing with depth
6	1	F	8	500	500	400			Beige silty sand, gravel gradually increasing with depth
6	1	F	9	500	500	450			prolific gravel mixed with silty sand
6	2	A	1	500	500	50			Light grey/beige silty sand, minor root content
6	2	A	2	500	500	100			Light grey/beige silty sand, minor root content
6	2	A	3	500	500	150			Beige silty sand,
6	2	A	4	500	500	200			Beige silty sand,
6	2	A	5	500	500	250			Beige silty sand,
6	2	A	6	500	500	300			Beige silty sand,
6	2	A	7	500	500	350			Beige silty sand,
6	2	A	8	500	500	400			Beige silty sand,
6	2	A	9	500	500	450			Beige silty sand,
6	2	A	10	500	500	500			Beige silty sand, orange/yellow clay at base
6	2	B	1	500	500	50			Light grey/beige silty sand, minor root content
6	2	B	2	500	500	100			Light grey/beige silty sand, minor root content
6	2	B	3	500	500	150			Beige silty sand,
6	2	B	4	500	500	200			Beige silty sand,
6	2	B	5	500	500	250			Beige silty sand,
6	2	B	6	500	500	300			Beige silty sand,
6	2	B	7	500	500	350			Beige silty sand,
6	2	B	8	500	500	400			Beige silty sand,
6	2	B	9	500	500	450			Beige silty sand,
6	2	B	10	500	500	500			Beige silty sand,
6	2	B	11	500	500	550			Beige silty sand,
6	2	B	12	500	500	600			Beige silty sand, orange/yellow clay at base
6	2	C	1	500	500	50			Light grey/beige silty sand, minor root content
6	2	C	2	500	500	100			Light grey/beige silty sand, minor root content
6	2	C	3	500	500	150			Beige silty sand,
6	2	C	4	500	500	200			Beige silty sand,

6	2	C	5	500	500	250			Beige silty sand,
6	2	C	6	500	500	300			Beige silty sand,
6	2	C	7	500	500	350			Beige silty sand,
6	2	C	8	500	500	400			Beige silty sand,
6	2	C	9	500	500	450			Beige silty sand,
6	2	C	10	500	500	500			Beige silty sand,
6	2	C	11	500	500	550			Beige silty sand, orange/yellow clay at base
6	2	D	1	500	500	50			Light grey/beige silty sand, minor root content
6	2	D	2	500	500	100		Ceramic insulator fragment	Light grey/beige silty sand, minor root content
6	2	D	3	500	500	150			Beige silty sand,
6	2	D	4	500	500	200			Beige silty sand,
6	2	D	5	500	500	250			Beige silty sand,
6	2	D	6	500	500	300			Beige silty sand,
6	2	D	7	500	500	350			Beige silty sand,
6	2	D	8	500	500	400			Beige silty sand,
6	2	D	9	500	500	450			Beige silty sand,
6	2	D	10	500	500	500			Beige silty sand,
6	2	D	11	500	500	550			Beige silty sand,
6	2	D	12	500	500	600			Beige silty sand, orange/yellow clay at base
6	2	E	1	500	500	50			Light grey/beige silty sand, minor root content
6	2	E	2	500	500	100			Light grey/beige silty sand, minor root content
6	2	E	3	500	500	150			Beige silty sand,
6	2	E	4	500	500	200			Beige silty sand,
6	2	E	5	500	500	250			Beige silty sand,
6	2	E	6	500	500	300			Beige silty sand,
6	2	E	7	500	500	350			Beige silty sand,
6	2	E	8	500	500	400			Beige silty sand,
6	2	E	9	500	500	450			Beige silty sand,
6	2	E	10	500	500	500			Beige silty sand, orange/yellow clay at base
7	1	A	1	500	500	80			Dark brown humic sandy loam, minor charcoal
7	1	A	2	500	500	150		2 brown glass frags	Black/grey ashy deposit with fire cracked rock and slag
7	1	A	3	500	500	250			Mid brown silty sand, damp and loose
7	1	A	4	500	500	330			Mid brown silty sand, damp and loose
7	1	A	5	500	500	410		1 Lgreen glass frag	Mid brown silty sand, damp and loose
7	1	A	6	500	500	490			Mid brown silty sand, damp and loose
7	1	A	7	500	500	560			Mid brown silty sand, damp and loose
7	1	A	8	500	500	610			Mid brown silty sand, damp and loose
7	1	A	9	500	500	660			Mid brown silty sand, damp and loose
7	1	A	10	500	500	710			Mid brown silty sand, damp and loose
7	1	B	1	500	500	70			Dark orangey brown loose sand - imported fill
7	1	B	2	500	500	140			Dark brown damp silty sand, minor small gravel

7	1	B	3	500	500	240			Dark brown damp silty sand, minor small gravel
7	1	B	4	500	500	320			Dark brown damp silty sand, minor small gravel
7	1	B	5	500	500	410		1 flat white ceramic frag	Dark brown damp silty sand, minor small gravel
7	1	B	6	500	500	500		4 rusty modern nails, 1 clear glass frag,	Dark brown damp silty sand, minor small gravel
7	1	B	7	500	500	560			Dark brown damp silty sand, minor small gravel
7	1	B	8	500	500	620		3 clear glass frags, 1 white ceramic frag	Dark brown damp silty sand, minor small gravel
7	1	B	9	500	500	670			Dark brown damp silty sand, minor small gravel
7	1	B	10	500	500	710			Dark brown damp silty sand, minor small gravel
7	1	C	1	500	500	70		1 purple glass fragment	Dark orangey brown loose sand - imported fill
7	1	C	2	500	500	140			Dark brown damp silty sand, minor small gravel
7	1	C	3	500	500	240		1 clear glass fragment	Dark brown damp silty sand, minor small gravel
7	1	C	4	500	500	320			Brown damp silty sand, minor small gravel
7	1	C	5	500	500	410		1 clear glass fragment	Brown damp silty sand, minor small gravel
7	1	C	6	500	500	500			Brown damp silty sand, minor small gravel
7	1	C	7	500	500	560			Brown damp silty sand, minor small gravel
7	1	C	8	500	500	620			Brown damp silty sand, minor small gravel
7	1	C	9	500	500	670			Brown damp silty sand, minor small gravel
7	1	C	10	500	500	710			Brown damp silty sand, minor small gravel
7	1	D	1	500	500	50			Very compact fine silty mid brown sand
7	1	D	2	500	500	100			Very compact fine silty mid brown sand
7	1	D	3	500	500	150			Very compact fine silty mid brown sand
7	1	D	4	500	500	200			Very compact fine silty mid brown sand
7	1	D	5	500	500	250		1 brown, 1 clear opalised glass frags	Very compact fine silty mid brown sand
7	1	D	6	500	500	300			Very compact fine silty mid brown sand
7	1	D	7	500	500	350			Very compact fine silty mid brown sand
7	1	D	8	500	500	400			Very compact fine silty mid brown sand
7	1	D	9	500	500	450			Very compact fine silty mid brown sand
7	1	D	10	500	500	500			Very compact fine silty mid brown sand, blocky peds
7	1	D	11	500	500	550			Very compact fine silty mid brown sand, blocky peds
7	1	D	12	500	500	600			Very compact fine silty mid brown sand, blocky peds
7	1	E	1	500	500	50			Very compact fine silty mid brown sand
7	1	E	2	500	500	100		2 clear glass frags, opalised	Very compact fine silty mid brown sand
7	1	E	3	500	500	150		1 green glass frag, 1 fragment white ceramic thick plate/bowl base	Very compact fine silty mid brown sand
7	1	E	4	500	500	200			Very compact fine silty mid brown sand
7	1	E	5	500	500	250		White ceramic frag, green glass frag	Very compact fine silty mid brown sand
7	1	E	6	500	500	300			Very compact fine silty mid brown sand
7	1	E	7	500	500	350			Very compact fine silty mid brown sand
7	1	E	8	500	500	400			Very compact fine silty mid brown sand
7	1	E	9	500	500	450			Very compact fine silty mid brown sand
7	1	E	10	500	500	500			Very compact fine silty mid brown sand, blocky peds

7	1	E	11	500	500	550			Very compact fine silty mid brown sand, blocky peds
7	1	E	12	500	500	600			Very compact fine silty mid brown sand, blocky peds
7	1	F	1	500	500	50			Very compact fine silty mid brown sand
7	1	F	2	500	500	100		blue and white ceramic frag, clear glass frag	Very compact fine silty mid brown sand
7	1	F	3	500	500	150			Very compact fine silty mid brown sand
7	1	F	4	500	500	200			Very compact fine silty mid brown sand
7	1	F	5	500	500	250			Very compact fine silty mid brown sand
7	1	F	6	500	500	300			Very compact fine silty mid brown sand, blocky peds
7	1	F	7	500	500	350			Very compact fine silty mid brown sand, blocky peds
7	1	F	8	500	500	400			Very compact fine silty mid brown sand, blocky peds
7	1	F	9	500	500	450			Very compact fine silty mid brown sand, blocky peds
7	1	F	10	500	500	500			Very compact fine silty mid brown sand, blocky peds
7	1	F	11	500	500	550			Very compact fine silty mid brown sand, blocky peds
7	1	F	12	500	500	600			Very compact fine silty mid brown sand, blocky peds, sparse quartz rolled gravel

Attachment 5

## Artefact Records

PAD	Transect	Probe	Level	No	General			L	M W	T	Max	Mass	Platform			Term	Cortex %	Cortex Type	Dorsal Ridge	Dorsal Surface				Retouch/Use				Notes
					Col	Raw Mat	Tech Cat						Plat Type	Plat Surf	Plat Thick					Scars Q1	Scars Q2	Scars Q3	Scars Q4	% Q1	% Q2	% Q3	% Q4	
1	1	A	4	1	Brown	Sil	DF				14					F	0											
1	1	A	6	1	Red/Br	CGS	PF				17		FOCAL	1	4													Broken in excavation
1	1	A	6	2	Red/Br	CGS	FP				33																	Broken in excavation, all probably the same artefact, but no conjoining edges
1	1	A	6	3	Red/Br	CGS	FP				25																	
1	1	A	6	4	Red/Br	CGS	FP				15																	
1	1	B	5	1	White	Quartz	Flake	26	11	4	28		FOCAL	1	4	F	0		N	2								
1	1	C	2	1	White	Quartz	Flake	16	17	5	19		FOCAL	1	5	Ax	10	Pebble	N	1								
2	1	A	12	1	White	Quartz	Flake	23	16	7	22		FOCAL	1	2	Ax			N	2								
3	1	E	5	1	Lgreen	Glass	scraper	75	35	8	75																	Bottle glass fragment with edge damage to margins indicating retouch and use. Found with 3 small glass flakes <10mm and 3 glass frags. Excav damage has created a fresh flake, which was retained.