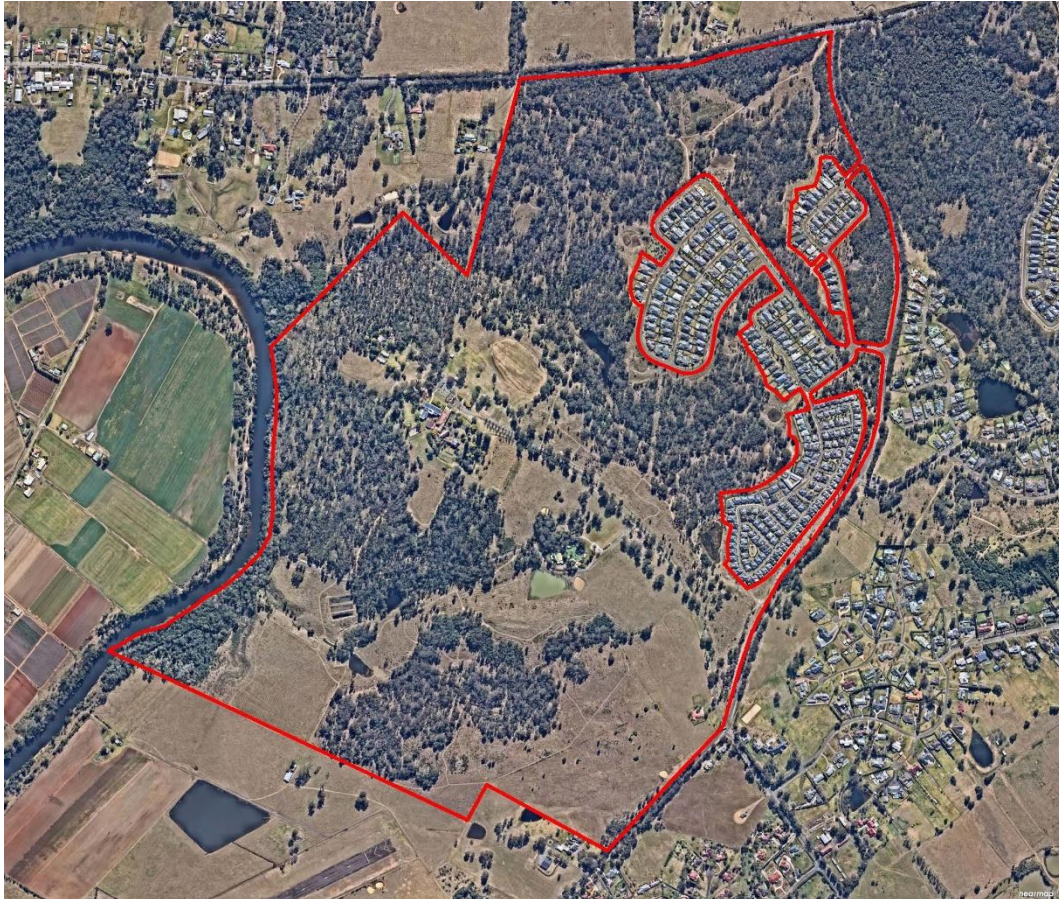


**PLANNING PROPOSAL REQUEST**  
**No. 229 Macquarie Grove Road, Cobbitty**  
**(Camden Council)**



**Prepared For:**  
**Trustees of the Sisters**  
**Of the Good Samaritan**  
**Prepared By:**



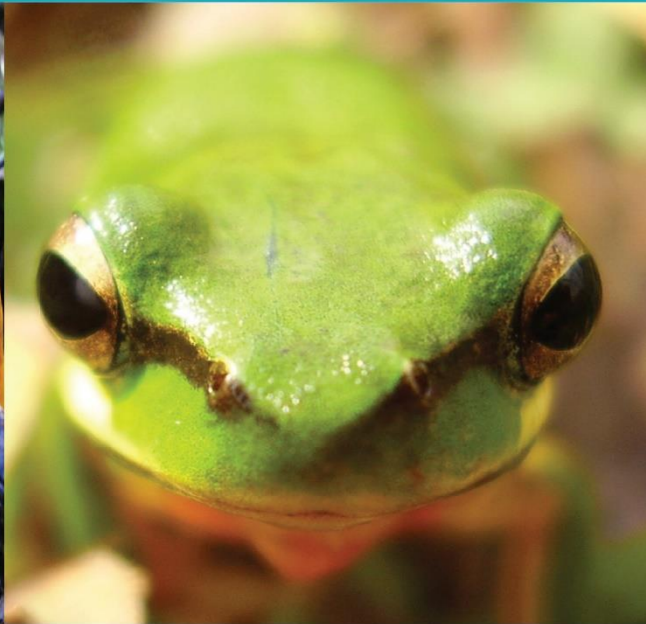
**Volume 2**  
**Annexure "F"**  
**Aboriginal Due Diligence Assessment**  
**(Travers Bushfire & Ecology)**

**October 2021**



# TRIVERS BUSHFIRE & ECOLOGY

A TBE ENVIRONMENTAL COMPANY



## ABORIGINAL HERITAGE DUE DILIGENCE ASSESSMENT

Planning Proposal Request to Facilitate Future  
Superlot Subdivision and Landuse Rationalisation

Lot 100, DP 1159926  
229 Macquarie Grove Road  
Cobbitty

22 September 2021

(REF: 21PPS02.2AB)

# ABORIGINAL HERITAGE DUE DILIGENCE ASSESSMENT

For

## Planning Proposal Request to Facilitate Future Superlot Subdivision and Landuse Rationalisation

Lot 100, DP 1159926, 229 Macquarie Grove Road, Cobbitty

Report authors:	Robert Sansom B. Sc. (Hons.) – Botanist
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Date:	22/09/21
File:	21PPS02.2AB

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*The mapping is indicative of available space and location of features which may prove critical in assessing the viability of the proposed works. Mapping has been produced on a map base with an inherent level of inaccuracy, the location of all mapped features are to be confirmed by a registered surveyor.*

# EXECUTIVE SUMMARY

This Aboriginal Heritage Due Diligence Assessment has been prepared by *Travers bushfire & ecology* for the property at Lot 100, DP1159926, 229 Macquarie Grove Road, Cobbitty within the Camden Council Local Government Area (LGA). This assessment was undertaken in accordance with the following:

1. The *National Parks and Wildlife Act* (1974)
2. National Parks and Wildlife Regulation 2009, and
3. Due Diligence Code of Practice for the protection of Aboriginal Objects in NSW (DECCW, 2010).

This Aboriginal Heritage Due Diligence Assessment was undertaken to provide the required information for the Planning Proposal Request (PPR) to rezone parts of the site and allow the future creation of super-lots. These super-lots will then be managed in accordance with their assigned purpose, such as:

1. Central Mater Dei property (School) (SP2)
2. Special Needs School / Facility (SP2)
3. Natural Environment Conservation Lands (E2), and
4. Rural Landscape Holding (RU2)

This Due Diligence Report has been undertaken to meet NSW legislative requirements. The aims of these requirements are to:

1. Identify any known or likely Aboriginal heritage on or adjacent to the property,
2. Assess the potential impact of the proposal on Aboriginal heritage, and
3. Determine if an Aboriginal Heritage Impact Permit (AHIP) is required prior to commencement of the development or construction within the study area, under a future development / planning time horizon.

## Summary of findings

Predictive modelling of key trends associated with the content of Aboriginal archaeological sites on the Cumberland Plain (*Navin Officer Heritage Consultants P/L, October 2015 – Western Sydney Airport Aboriginal Cultural Heritage Assessment*) highlights a set of predictive statements or criteria that are associated with historical use of the landscape within the wider Cumberland Plain.

The area subject to the PPR has a number of attributes which would indicate that historical Aboriginal use of the site would have been likely. However, moderate to high levels of disturbance to the site's landform in modern history has affected the surface expression of aboriginal artefacts. This is caused by past land uses and management practices such as vegetation clearing, modification to the rock outcrops, establishment of a historical working pastoral property, quarrying, creation of dams, construction of roads, tracks and buildings and more recently as two separate schools, including the retention and restoration of the European heritage buildings and other outbuildings and infrastructure.

Despite the disturbance of the topsoil over much of the subject site, it is considered that the site has a moderate potential to contain aboriginal artifacts. The main areas that are likely to contain aboriginal artifacts are along the numerous watercourses, ridgelines and rock outcrops or vantage points which form a network throughout the study area. The PPR seeks to rationalise the prevailing zonings and establish a template for future development / management, via a superlot subdivision.

In the unlikely event known or new Aboriginal artefacts are identified or disturbed during any future activities within the new proposed superlots, then works shall cease immediately and the site assessed by a qualified archaeologist which will then guide the activities to conserve the site. If disturbance to newly found or known existing sites is necessary, then an AHIP will be required for any resulting impacts. Conversely, if no Aboriginal artefacts are identified, an AHIP application is not necessary.

Applications for an AHIP must be accompanied by an assessment report conducted in accordance with the *Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW 2010*. Applications must also provide evidence of consultation with the Aboriginal communities. Consultation is required under Part 8A of the NPW Regulation 2009 and is to be conducted in accordance with the *Aboriginal Heritage Consultation Requirements for Proponents 2010*.

Predictive modelling of the landscape suggests that potential Aboriginal Heritage areas have a moderate probability to occur within the subject site, but are importantly manageable within the subject framework.

## LIST OF ABBREVIATIONS

AS 4970	Protection of trees on a development site
APZ	asset protection zone
BC Act	Biodiversity Conservation Act, 2016
BPA	bushfire protection assessment
CRZ	critical root zone
DCP	Development Control Plan
DAWE	Commonwealth Department of Agriculture, Water and the Environment.
DOEE	Commonwealth Department of Environment & Energy (superseded by DAWE)
DPIE	NSW Department of Planning, Industry and Environment
EEC	endangered ecological community
EPA	Environmental Protection Authority
EP&A Act	Environmental Planning and Assessment Act
EPBC Act	Environment Protection and Biodiversity Conservation Act
ESMP	ecological site management plan
FF	flora and fauna assessment
FM Act	Fisheries Management Act
FMP	fuel management plan
ha	hectares
HTA	habitat tree assessment
IPA	inner protection area
LEP	local environment plan
LGA	local government area
m	metres
NES	national environmental significance
NPWS	NSW National Parks and Wildlife Service
OEH	NSW Office of Environment and Heritage (superseded by DPIE from August 2019)
OPA	outer protection area
PBP	Planning for bush fire protection 2006
RF Act	Rural Fires Act
RFS	NSW Rural Fire Service
ROTAP	rare or threatened Australian plants
SRZ	structural root zone
SULE	safe useful life expectancy
TPO	tree preservation order
TPZ	tree protection zone
TRRP	tree retention and removal plan

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# 1. BACKGROUND

## 1.1 Project background

This Aboriginal Heritage Due Diligence Assessment has been prepared by *Travers bushfire and ecology* for the property known as Lot 100, DP 1159926, at 229 Macquarie Grove Road, Cobbitty within Camden local government area (LGA) (as shown in Figure 1-1). This assessment was undertaken in accordance with the following:

1. *The National Parks and Wildlife Act 1974*
2. *National Parks and Wildlife Regulation 2009*, and
3. *Due Diligence Code of Practice for the protection of Aboriginal Objects in NSW* (DECCW, 2010).

This Aboriginal Heritage Due Diligence Assessment was undertaken to provide the required information for the Planning Proposal Request (PPR)

This Due Diligence Assessment is required to meet NSW legislative requirements. The aims of these requirements are to:

1. identify any known or likely Aboriginal heritage on the property,
2. assess the potential impact of the proposal on Aboriginal heritage, and
3. determine if an Aboriginal Heritage Impact Permit (AHIP) is required prior to commencement of the development or construction within the study area.

## 1.2 Project description

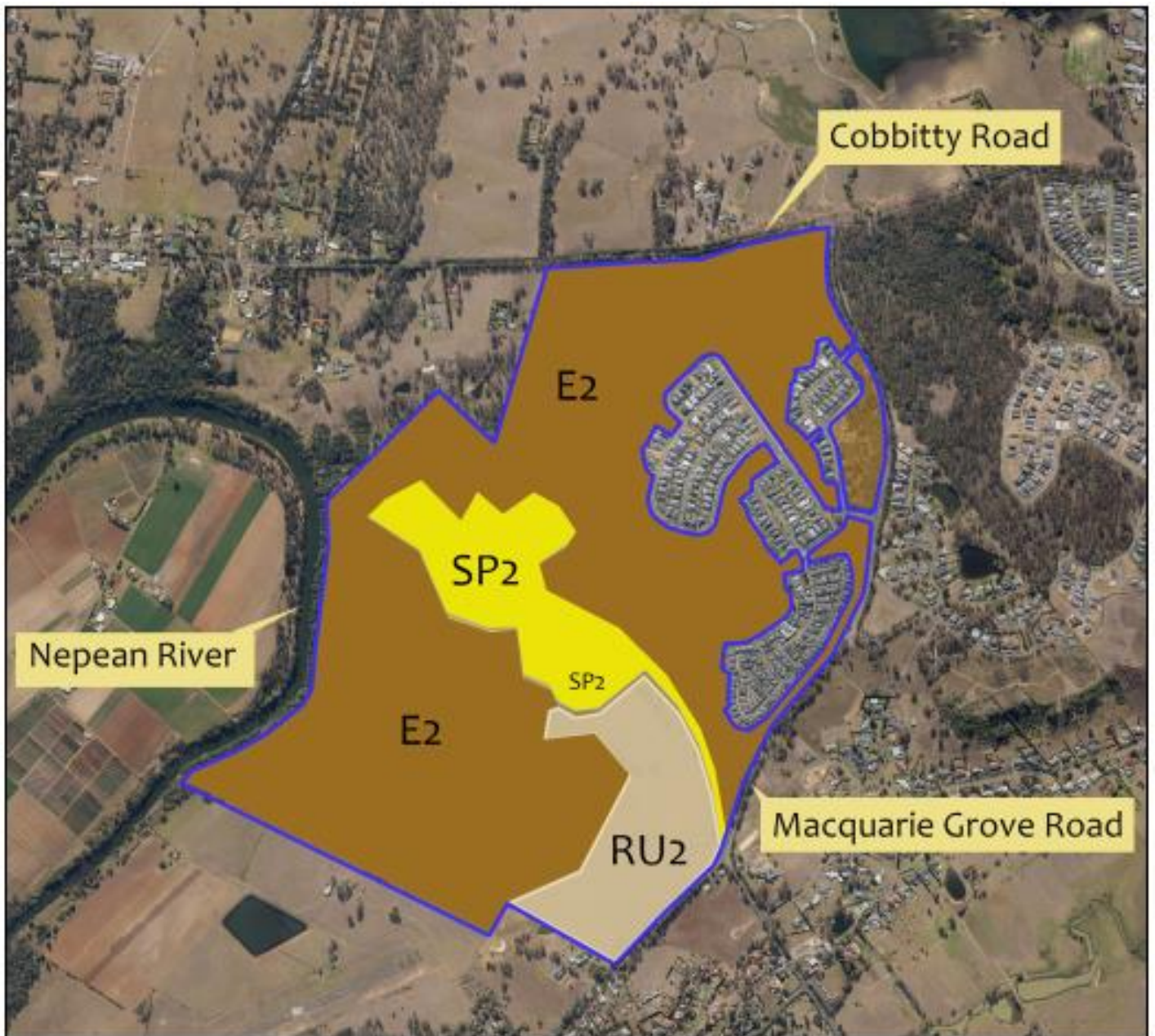
This Aboriginal Heritage Due Diligence Assessment was undertaken to provide the required information for the PPR which is to rationalise the zoning of r parts of the site and allow the creation of a Superlot subdivision for the following purposes:

1. The centrally located Mater Dei School (SP2)
2. A Special Needs facility / school (SP2)
3. Natural Environment Conservation Lands (E2), and
4. Rural Landscape (RU2)  
(Refer to Figure 1.2)

The ultimate proposal is to subdivide the site into super-lots such that various ownership and management requirements can be enacted within appropriately zoned and managed lands as shown in Figure 1.3. This super-lot subdivision will potentially allow different entities to undertake management or other works independently from entities owning or managing adjacent super-lots.



**Figure 1-1 – Aboriginal heritage due diligence study area, location and extent**  
(Source SIX-maps)



**PROPOSED ZONING**

- E2 Environmental Conservation
- SP2 Educational Establishment
- RU2 Rural Landscape

*Figure 1-2 - Proposed Zones / Precincts*



Issue	Date	Description
	20/07/2021	LOTS 202, 203 & 204 BOUNDARY ADJUSTMENT
	05/08/2020	LOTS 202, 203 & 204 BOUNDARY ADJUSTMENT
S	04/08/2020	LOTS 201, 202 & 204 BOUNDARY ADJUSTMENT
	31/07/2020	ORIGINAL ISSUE
SURVEY INFORMATION	Orientation:	MGA
	Datum:	MGA
	Level:	LIDAR
Coordinate	MGA	
	LIDAR	
Date of survey:	N/A	
Origin:	MGA	
	N/A	

Client:	TRUSTEES OF THE SISTERS OF THE GOOD SAMARITAN
Project:	LOT 100 IN DP1159926 - 229 MACQUARIE GROVE ROAD, COBBITTY
<b>PLAN OF PROPOSED SUBDIVISION</b>	
Locality:	COBBITTY
L.G.A.:	CAMDEN
Sheet 1 of 1	Ref: 20115PS

 JMD Development Consultants	John M. Dwyer & Associates Pty Ltd A.M. 88 057 577 999 <b>Surveying          Engineering          Project Management          Licensed Water Service Co ordinators</b> 32 Inlanthe Street P.O. BOX 25 CAMPBELLTOWN NSW 2560 PH: 081 662 6265 email: admin@jmd.com.au
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**Figure 1-3 – Proposed Super-lot subdivision**  
 (Source: JMD Development Consultants Ref: 20115PS Issue Dated 20/76/2021)

## 1.3 Previous studies

Previous Aboriginal Heritage / Archaeological studies, surveys and Local Aboriginal Land Council (LALC) consultations and liaison have been undertaken for the Wivenhoe Residential Development (formerly part of the Mater Dei holding). A detailed report was produced by *Kelleher Nightingale Consulting Pty Ltd* (April 2008).

In addition, A Curtilage study was undertaken by Dallas, M. and Tuck, D. (July 2003) – *Denbigh Curtilage Study: Aboriginal Cultural Heritage*. (It is noted that Denbigh property is a nearby large rural landholding to the north of Cobbitty Road)

## 1.4 Assessment process

The Due Diligence Code of Practice for the protection of Aboriginal Objects (Section 4) (DECCW, 2010) states:

*“Consideration of the potential impacts of development on Aboriginal heritage is a key part of the environmental impact assessment process under the Environmental Planning and Assessment Act 1979 (EP&A Act). The standards in this code can be used or adapted by proponents to inform the initial assessment of the environmental impacts of an activity on Aboriginal heritage. An environmental impact assessment which meets all of the requirements of this code will satisfy the due diligence test.”*

Section 6 of DECCW, 2010) also states:

*“In the context of protecting Aboriginal cultural heritage, due diligence involves taking reasonable and practicable measures to determine whether your actions will harm an Aboriginal object and, if so, what measures can be taken to avoid that harm.*

*There are several advantages to having a due diligence process for assessing potential harm to Aboriginal objects in that it:*

- *assists in avoiding unintended harm to Aboriginal objects*
- *provides certainty to land managers and developers about appropriate measures for them to take*
- *encourages a precautionary approach*
- *provides a defence against prosecution if the process is followed*
- *results in more effective conservation outcomes for Aboriginal cultural heritage.”*

In order to fulfil the requirements of ‘Due Diligence’, the generic due diligence process as outlined within Section 8 of DECCW (2010) should be followed as a minimum. The steps required are summarised below.

1. Does the activity require disturbance to the ground surface?
  - 2a. Search the AHIMS database and use any other sources of information of which you are already aware.
  - 2b. Activities in areas where landscape features indicate the presence of aboriginal objects, (eg. Within 200m of waters or below/above a cliff, sand dune systems, ridge tops or lines or headlands, within 20m of a cave, rock shelter or cave mouth, etc.)
3. Can harm to the object or disturbance of the landscape feature be avoided?

4. Desktop assessment and Visual Inspection. The visual inspection must be done by a person with expertise in locating and identifying Aboriginal objects. This person with expertise could be an Aboriginal person or landholder with experience in locating and identifying Aboriginal objects or a consultant with appropriate qualifications or training in locating and identifying Aboriginal objects.
5. Further investigations and impact assessment. If after the above detailed investigation and impact assessment you decide that harm will occur to Aboriginal objects then an AHIP application must be made. If you have followed this code and at any point have reasonably decided that an AHIP application is not necessary either because Aboriginal objects are not present or, if they are present, harm to those objects can be avoided, you can proceed with caution. If, however, while undertaking your activity you find an Aboriginal object you must stop work and notify DECCW and you may need to apply for an AHIP. Some works may not be able to resume until you have been granted an AHIP and you follow the conditions of the AHIP. Further investigation may be required depending on the type of Aboriginal object that is found.

## 2. ASSESSMENT

This assessment section works through the requirements of the 'Due Diligence' process as outlined in Section **Error! Reference source not found.**

### 2.1 Identify if the proposed works will disturb the ground surface

The proposal PPR is to facilitate rezoning of parts of the study area and the creation of several super-lots. This will allow separate entities to manage these land parcels as appropriate to the new zoning requirements, and to undertake limited development in the future and to potentially allow these separate entities to operate independently from neighbouring properties. It is expected that the newly created super-lots will require replacement of existing fence lines which is expected to be the only disturbance to the soil resulting from the proposal. It is also expected that any future (currently unknown) works undertaken within the study area will avoid areas known to contain aboriginal artefacts and may be the subject of further assessment. Therefore, the known Aboriginal sites within the study area are unlikely to suffer from ground disturbance as a result of the creation of Super-lots and the fencing required to delineate the boundaries. See Figure 2.1 for locations of aboriginal Heritage sites within the study area.

### 2.2 AHIMS database searches and other known information sources

#### 2.2.1 AHIMS web database searches

##### Basic AHIMS Search

The Aboriginal Heritage Information Management System (AHIMS) is a database that can be accessed via the web. It contains information and records of registered Aboriginal archaeological sites (containing Aboriginal objects) and declared Aboriginal Places in NSW.

A basic AHIMS area search was undertaken on 11<sup>th</sup> August 2021 using the Lot and DP numbers (Lot 100, DP 1159926) with a 50-metre buffer external to the Lot. This area covers the whole of the subject site and an area of at least 50 metres beyond, on all sides.

The Basic AHIMS search provides only presence / absence information and does not provide any other details. However, the Basic search did return information that twelve (12) Aboriginal sites have been recorded in or near the Study Area. From this information it was determined that an Extensive Search would be more informative.

##### Extensive AHIMS search

An extensive AHIMS search was undertaken on 11<sup>th</sup> August 2021 for the same area as described above. Details used for the search were:

Lot 100, DP 1159926, with a buffer of 50 metres.

This search again returned twelve (12) recorded Aboriginal Sites located within the study Area. The Extensive search provides more detailed information such as the unique site identification number, the site name, the mapping datum with easting and northing coordinates, the context of the site, site status, features present, and the document number of any previous

archaeological report for each site. The results of the extensive search are shown in Table 2-1 below.

**Table 2-1 – AHIMS Extensive search results for the Study Area**

Site ID	Site name	Datum	Zone	Easting	Northing	Context	Site status	Site features
52-2-3344	MD1	AGD	56	288278	6232209	Open Site	Valid	Artefact: 1
52-2-3345	MD2 Camden	AGD	56	287995	6232233	Open Site	Valid	Artefact: 1
52-2-3346	MD3	AGD	56	288091	6232254	Open Site	Valid	Artefact: 1
52-2-3347	MD4	AGD	56	287958	6232287	Open Site	Valid	Artefact: 1
52-2-3348	MD5	AGD	56	288102	6232562	Open Site	Valid	Potential Archaeological Deposit (PAD)
52-2-3349	MD6	AGD	56	287635	6233053	Open Site	Valid	Artefact: 1
52-2-3350	MD7	AGD	56	287747	6233378	Open Site	Valid	Artefact: 18
52-2-3351	MD8	AGD	56	288331	6233371	Open Site	Valid	Artefact: 1
52-2-3352	PAD6	AGD	56	287947	6232407	Open Site	Valid	Potential Archaeological Deposit (PAD)
52-2-3353	MD-OS-1	AGD	56	288468	6232583	Open Site	Valid	Artefact: 4
52-2-3355	MD-IF-1	AGD	56	287860	6233477	Open Site	Valid	Artefact: 1
52-2-3356	MD-ST-1	AGD	56	<a href="#">*AHIMS 288468</a>	<a href="#">*AHIMS 6232541</a> <a href="#">6232583</a>	Open Site	Valid	Modified Tree (Carved or Scarred)

**\*Note**, the coordinates for AHIMS sites 52-2-3353 and 52-2-3356 have been duplicated within the AHIMS database. The correct coordinates for Site 52-2-3356 are also shown in Table 2.1. The correct coordinates and site ID label from the above data were imported into a GIS system and plotted over a geo-referenced and recent aerial photograph with the proposed super-lot boundaries shown in Figure 2-1.

### Site Cards

In order to obtain the details of AHIMS sites the site cards were requested for each site. These cards record the details of the artefacts with notes, directions, context and placement within the landscape. In some cases, photographs are also included in the site card. Copies of the site cards are provided in Attachment 1.



### **2.2.2 Other heritage registers and databases**

Other sources of information including heritage registers and lists were also searched for known Aboriginal heritage in the vicinity of the study area. These included:

- NSW State Heritage Register

The State Heritage Register lists 'Denbigh' (Listing No. 01691 – Gazetted 12/22/2006)

- Commonwealth Heritage List

Two places are listed for the Camden Local Government area. These are:

1. Camden Post Office 135 Argyle St Camden, and
2. Cottage in rear of Macquarie Grove House, Macquarie Grove Road – this building is possibly part of what is now called Denbigh House.

- National Heritage List

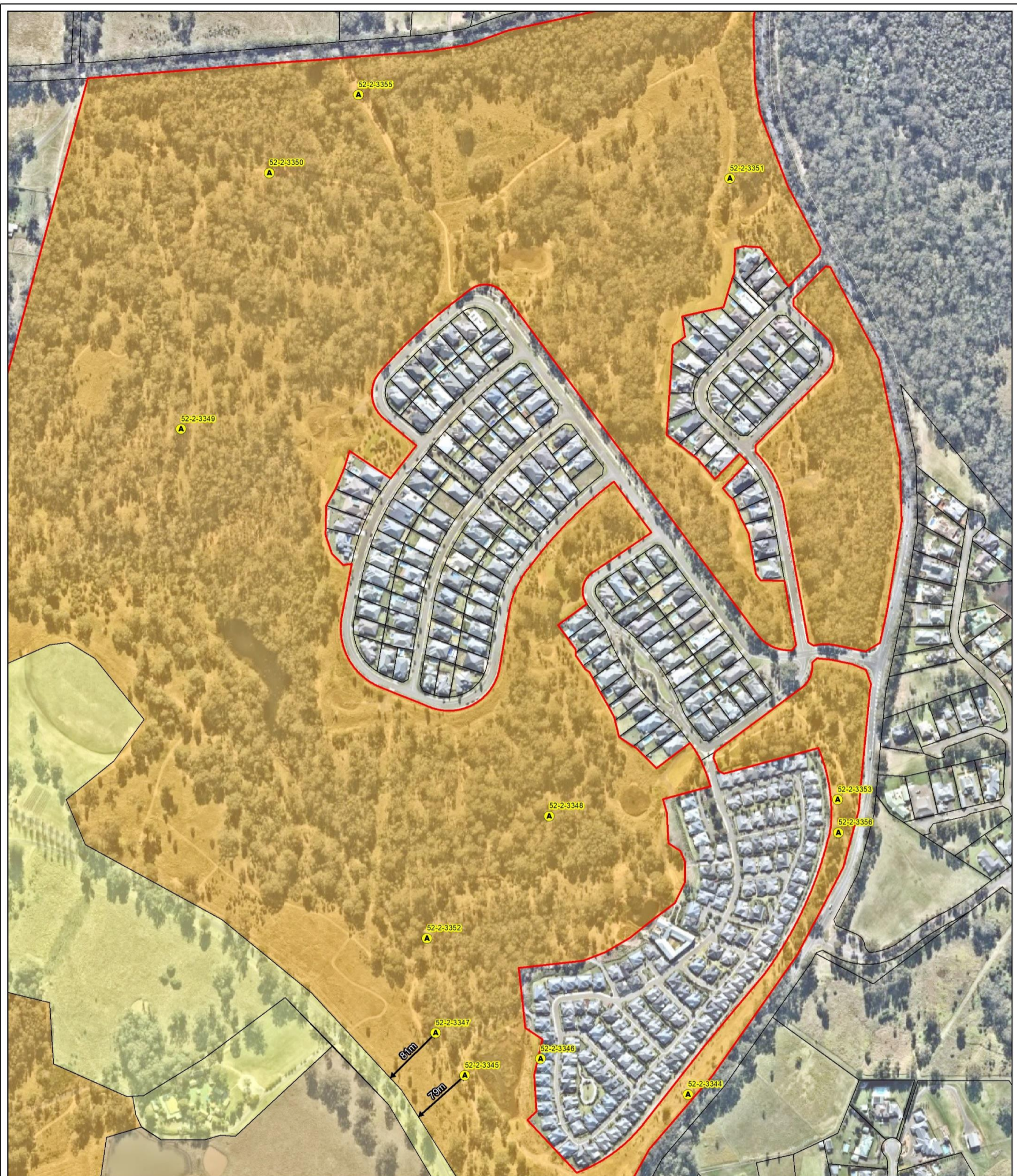
The National Heritage List has no listings within 5 km of the Study Area

- Australian Heritage Database

This Database returns the same information as the Commonwealth Heritage Database search

### **2.2.3 Known Aboriginal heritage and previously recorded sites**

Twelve (12) known AHIMS sites have been previously identified within the Study Area as shown in Table 2.1 and Figure 2.1.



**Legend**

- Site boundary (source:LPI)
- ▲ Aboriginal cultural sites (source:AHIMS)
- Proposed Zoning**
- E2 Environmental Conservation
- RU2 Rural Landscape
- SP2 Educational Establishment

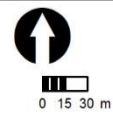
Aerial source: Neamap



PROJECT & MXD REFERENCE  
229 Macquarie Grove Road, Cobbitty  
21PPS02\_AB001

DATE & ISSUE NUMBER  
25/08/2021  
Issue 1

SCALE & COORDINATE SYSTEM  
1:4,500  
GDA 1994 MGA Zone 56



TITLE  
**Cultural Sites**

Disclaimer: The mapping is indicative of available space and location of features which may prove critical in assessing the viability of the proposed works. Mapping has been produced on a map base with an inherent level of inaccuracy, the location of all mapped features are to be confirmed by a registered surveyor.

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**Figure 2-1 – Plot of known AHIMS sites within the Study Area**

## 2.3 Landscape assessment

Haglund (1980) (in Dallas *et. al.*) developed a predictive model of site location based on early survey work in the Blacktown area. She predicted that sites would most likely be located near watercourses such as creeks and soaks, and on high ground near creek confluences.

Kohen (1986) postulated that the availability of water was the most important factor influencing the distribution of sites across the landscape.

Brayshaw, H. (1988) (in Dallas *et.al.*) Assessed the Probable Maximum Flood (PMF) inundation zone of the Warragamba Dam. She noted that the majority of the known sites were located on the Wianamatta shale landforms. Since that time, a number of archaeological surveys have been conducted in and around the Oakdale Colliery and nearby at the Brimstone Colliery.

Smith, L. J. (1989) Conducted a planning study over a large (25 km<sup>2</sup>) area near Liverpool. This study concluded that “sites in the Liverpool area were more likely to occur on creek flats than on any other topographical feature, and that the probability of sites occurring on creek flats increased near creek confluences.

Navin Officer, (1998) have summarised the history of investigations and observed that a wide range of site types common in Hawkesbury sandstone are present and that site density varies according to topography and steepness of terrain. Site densities ranged from 1 site per 9.5ha to one site per 110ha. The higher site densities occur in landforms of low gradient slopes and open or flat valley floors. It must be noted that Wianamatta shale is also present within the subject site which provides additional diversity to the potential for Aboriginal heritage sites to occur.

Predictive modelling of key trends associated with the content of Aboriginal archaeological sites on the Cumberland Plain (*Navin Officer Heritage Consultants P/L, October 2015 – Western Sydney Airport Aboriginal Cultural Heritage Assessment*) highlights a set of predictive statements or criteria that are associated with historical use of the landscape within the wider Cumberland Plain. It is generally inferred that Aboriginal people often used certain landscape features and that Aboriginal objects are most often associated with these.

The study area has a number of attributes which would indicate that Aboriginal use of the site would have been historically likely. Therefore, an evaluation of landscapes present within the study area aids in assessing the likelihood of Aboriginal objects occurring within the subject site.

### 2.3.1 Historical Aboriginal Cultural Heritage of the Cumberland Plain

Some of the trends to predict the location and potential content of Aboriginal archaeological sites (*Navin Officer, 2015*), are present within the study area such as:

- Site frequency and artefact density are strongly related to access to fresh water and other necessary resources.
- Intact archaeological material may still be present below the plough zone (i.e. top 25 cm of soil).
- Artifacts are mostly situated close (within 100 metres) to permanent fresh water sources such as second order or higher creeks, rivers and wetland basins.

- Aboriginal sites are frequently located on creek banks, alluvial flats and lower slopes, or on higher ground such as ridges or knolls.
- Sites are often located within a short range of food resources and the raw materials for making tools.
- Complex sites that support large groups, or small groups at regular intervals, are usually located near permanent water sources.
- Stream order may provide a predictive framework for the occurrence and complexity of associated archaeological deposits (McDonald, 2005).
- Fourth and fifth order streams are likely to contain more complex and possibly stratified evidence of more permanent or repeated occupation.
- Third order streams are more likely to contain evidence of frequent occupation such as knapping areas. Higher artefact densities are often found in the lower reaches of tributary creeks.
- Second order watercourses are likely to contain sparse archaeological evidence, likely caused by mostly occasional use or occupation.
- First Order watercourses are associated with sparse archaeological evidence.
- Creek junctions may also provide a focus point and the size of artefact deposits may increase with the size or Order of these watercourses
- High value artefact deposits are most likely to occur in areas where fluvial deposits are accumulating within valley floors, on fringing basal slopes or on nearby locally elevated and well drained areas.
- Ridge tops and hill crests are usually defined as low potential for artefacts; however, some hilltops or ridgelines do present large artifact deposits.
- Single old trees and stands of remnant 'old growth' have potential for evidence of scarring by Aboriginals.
- Grinding grooves may occur in creek lines and are often associated with a sandstone substrate.

### **2.3.2 Historical Aboriginal Cultural Heritage within the locality**

A report by Mary Dallas and Dan Tuck (July 2003) – Titled “*Denbigh Curtilage Study: Aboriginal Cultural Heritage*” was also produced. This report was more specific to the central areas within the study area and has determined that Aboriginal activity across the local landscape was evidenced by multiple interactions between Aboriginal and European peoples since the first European settlers within the region. This information was extracted from reports and writings of the times which described people, places, skirmishes and peaceful cohabitation in the area.

This study describes the environment with respect to the geology dominated by The Tertiary Bringelly Shales of the Wianamatta Geological Group. Minchinbury sandstone beds that are often associated with this group occur along the ridgeline to the north and east of the homestead. Quaternary fine-grained silts and clays dominate the Nepean floodplain. This landscape supported various forested types such as, Grey Box Woodland, Red Gum Forest and Narrow-leaved Ironbark Woodland. The Nepean River is supported by a large number of small tributaries derived from a network of even smaller first, second and third Order watercourses. Dallas and Tuck (2003) stated that “*The general archaeological context for this portion of the Sydney Basin is of interest because it lies close to the interface of the shale-based and sandstone formations*”. They go on to say – “*Most of the sites in the region are strongly correlated to the underlying geology. The predominant site types are sheltered occupation deposits, painted and engraved art sites and axe grinding grooves within the sandstone formations*”.

Dallas and Tuck (2003) conclude that: “*There is firm archaeological and historical evidence of the Aboriginal association with Denbigh. This evidence includes activities associated with tool and equipment-making and ceremonial activities. Further archaeological investigations and field survey is likely to provide evidence of extensive use of the area, particularly the ridge system and the Cobbitty Creek valley floor*”.

### **2.3.3 Likely occurrence of Aboriginal sites within the subject site**

The subject site is located on the Blacktown Soil Landscape consisting of gently undulating rises on Wianamatta Shale with gently inclined slopes. The study area is traversed by several First and Second Order watercourses which feed into the Nepean River. These watercourses and river have eroded down into the Theresa Park soil landscape which is derived from sandstones and fluvial deposits. This soil landscape is associated with floodplains surrounded by higher shale bands which sometimes form steep banks and outcrops.

The topography has been modified through land management practices associated with pastoral activities for over 100 years. Several dams and farm tracks have been constructed.

Prior to European settlement the study area would have been vegetated with vegetation types such as, Grey Box Woodland, Red Gum Forest and Narrow-leaved Ironbark Woodland. After European settlement, the study area was mostly cleared for pastoral purposes. However, more recently the vegetation has been allowed to naturally recover, yet it still has some way to go to achieve an almost natural state. Weeds such as Lantana, African Olive and other invasive species are the targets for ongoing weed control.

As described above, the landscape within the study area provides features that are known to be associated with aboriginal use and therefore areas within the study area are likely to contain known (e.g. AHIMS records) and as yet undiscovered aboriginal heritage artefacts. Landform features that are associated with Aboriginal activity, use, or occupation as determined by the *Due Diligence Code of Practice for the Protection of Aboriginal Objects in New South Wales* (DECCW 2010), are present within the study area, such as:

- The presence of fresh water within intermittent and semi-permanent watercourses and also within 100 metres of the watercourses,
- Creek banks, alluvial flats, lower slopes, or on higher ground such as ridges, lookouts or knolls,
- Within a short range of food resources and the raw materials for making tools,
- Sites that support large groups, or small groups at regular intervals, are usually located near permanent water sources such as the floodplain along the Nepean River,
- Higher artefact densities such as knapping areas are often found in the lower reaches of tributary creeks,
- Higher order watercourses are more likely to contain artefacts from more permanent or frequently repeated occupation,
- Creek junctions may also provide a focus point and the size of artefact deposits may increase with the size of these watercourses,
- High value artefact deposits are most likely to occur in areas where fluvial deposits are accumulating within valley floors, on fringing basal slopes or on nearby locally elevated and well drained areas,
- Ridge tops and hill crests are usually defined as low potential for artefacts; however, some hilltops or ridgelines do present large artifact deposits, especially those that have a view across the surrounding country,
- “Old Growth” forest and single old trees provide potential for ‘scarring’ by Aboriginals,
- Grinding grooves are most often found in creek lines and are often found in association with a sandstone substrate.

However, the majority of the study area is disturbed land as defined within the code of practice as the land has undergone activities such as:

- clearing of vegetation,
- construction of buildings,
- construction of dams
- establishment of farm tracks,
- construction or installation of utilities or services (electricity, water, sewer, stormwater, communications),
- Disturbance to the upper layers of the soil (such as tilling) to promote the growth of pasture species,
- construction of earthworks associated with anything mentioned in the above points.

Despite the above-mentioned disturbances, it is considered that the site does have a moderate potential to contain aboriginal artifacts. However, the main areas that are likely to contain aboriginal artifacts are along the Nepean riverbank, along the multiple creeklines and along ridgetops and knolls. Some locations on the larger river flats and flatter higher ground within the site may also contain artifacts from camps. The proposed rezoning and subdivision into super-lots within the study area will retain all twelve (12) currently known AHIMS sites within future conservation and offset areas which are to be rezoned to E2.

### **2.3.4 Due Diligence inspection by Cubbitch Barta Native Title Claimants Aboriginal Corporation**

Mary Dallas and Dan Tuck were accompanied by Glenda Chalker, chairperson of the Cubbitch Barta Native Title Claimants Aboriginal Corporation during the reconnaissance survey across the Denbigh Homestead property on 17 June 2003.

Other Aboriginal Consultations were undertaken by *Kelleher Nightingale (2008)* for the proposed development of *Wivenhoe Residential Development*. Tharawal Local Aboriginal Land Council (TLALC), Cubbitch Barta Native Title Claimants Aboriginal Corporation (CBNTCAC), Darug Tribal Aboriginal Corporation (DTAC), Darug Custodian Aboriginal Corporation (DCAC) and Darug Aboriginal Cultural Heritage Assessments (DACHA) were consulted regarding the proposed rezoning and residential development. Kelleher Nightingale further states: "*The proposed conservation area incorporates a number of the recorded Aboriginal sites and the area of archaeological potential. This represents a positive conservation outcome for Aboriginal heritage as it retains the connection between identified Aboriginal sites and areas of archaeological sensitivity, forming a landscape approach to the conservation of Aboriginal cultural heritage*".

Written responses from the consulted local Aboriginal community groups on the assessment by *Kelleher Nightingale (2008)* confirmed the findings and support for the recommendations:

DTAC agreed with and supported the recommendations made in the report. In addition, it requested that if any work is done outside the development area that DTAC be notified.

DCAC expressed its support of the information and recommendations made in the assessment report.

DACHA supported the findings of the field survey and agreed with the recommendations in the report. In addition, it expressed interest in continuing to be involved in any future works on the lands.

## 2.4 Impact avoidance

The PPR to rezone parts of the site and to allow the creation of super-lots is unlikely to cause any significant disturbance to the soil surface. After the creation of the super-lots it is expected that the boundaries of these new lots will be fenced. The proposed super-lots have been planned such that the new zone boundaries utilise existing internal fence lines. Some of these fences require maintenance or replacement. However, the proposed zone boundaries and the required maintenance and replacement fences will be located along the existing fence lines.

It is expected that fence maintenance and replacement is likely to require the digging of fence post holes along the existing fence lines. It must be noted that AHIMS sites 52-2-3344, 52-2-3346 and 52-2-3356 are located in proximity to fences surrounding the recently constructed Wivenhoe residential development. *Kelleher Nightingale* (2008) has assessed potential impacts of the Wivenhoe residential development and all three of these AHIMS sites have been left in situ (see Figure 2.2). In particular, AHIMS site 52-2-3346 is located close to the fence line in the south-western portion of the Wivenhoe residential development, however, this site is preserved in-situ within a parkland area that is to be managed as a bushfire Asset Protection Zone (APZ).

Considering the small areas of likely soil disturbance (possible new fence post holes along an existing fence line), and the proposed location of the new super-lot boundaries over existing fences, it is considered that the PPR with subsequent rezoning and subdivision into Super-lots will avoid any significant impact to known Aboriginal heritage artefacts or sites.



Figure 2-2 – detail from Figure 2.1 – Showing closest proximity of 3x AHIMS sites to existing fence line

## **2.5 Desktop assessment**

There is a moderate possibility that undiscovered aboriginal objects may be located within the subject site. However, all remaining AHIMS sites are located within land proposed to be Conservation Areas or Biobank sites. Further, it is considered that the landscapes most likely to contain aboriginal artefacts (e.g. creeks and their surrounds, ridgelines, knolls, river flats etc.) will be conserved within the proposed E2 Lands. The following is a desktop assessment based on previous works in the region, within the study area, and incorporating landscape interpretation within the subject site.

### ***2.5.1 Aboriginal heritage within the study area***

Desktop assessment and multiple database searches (see Sections 2.2.1 and 2.2.2) identified twelve (12) Aboriginal heritage AHIMS sites within the study area. Details of these sites are provided in Table 2.2 below.



**Table 2-2 - Impacts and Management Actions** (adapted from Kelleher Nightingale 2008)

AHIMS Site	Type	Significance	Impact Assessment	Management / Mitigation Actions	Enhancement Strategy	Status after proposed rezoning
52-2-3344 MD1	Isolated artefact	Low - moderate	Site is situated within proposed Macquarie Grove Road Landscape Visual Buffer and on the edge of an APZ, Which is part of the existing Wivenhoe Village	Development and maintenance of the Landscape Visual Buffer and APZ should avoid this site if possible. The location of the site should be identified in the relevant conservation management plans, to avoid accidental damage during construction works and ensure the site is not directly or indirectly impacted by future uses, management or maintenance activities within the Landscape Visual Buffer. If it cannot be avoided, section 90 consent will be required for this site. The DECC Interim Community Consultation Requirements for Applicants would be required to be implemented, if it is not deemed to be an ongoing project. CBNTCAC confirmed there should be no issues with this site provided it is avoided by machinery and earthworks.		Located within the proposed E2 Environmental Conservation Zone, within the Visual Buffer between the existing Wivenhoe development and Macquarie Grove Rd.  <b>To be retained in-situ.</b>
52-2-3345 MD2	Isolated artefact	Low - moderate	No impact.  Site is within the conservation zone.	No action required.  The location of the site should be identified in the relevant conservation management plans, to avoid accidental damage during construction works and ensure the site is not directly or indirectly impacted by future uses, management or maintenance activities within the conservation zone. The conservation of this site is supported by the local Aboriginal community groups.	The site is located near a proposed trail and could contribute to interpretation and recognition opportunities within the conservation zone. Further consultation with the local Aboriginal community groups would be required.	Located within the proposed E2 Environmental Conservation Zone, approximately 79 metres north-east of the proposed SP2 access corridor.  <b>To be retained in-situ.</b>
52-2-3346	Isolated artefact	Low - moderate	No impact	No action required.	The site is in a proposed parkland within the current	Located within the existing parkland which forms part

AHIMS Site	Type	Significance	Impact Assessment	Management / Mitigation Actions	Enhancement Strategy	Status after proposed rezoning
MD3				<p>The site is situated within proposed parkland within the LEP boundary and so will not be directly impacted. Placement of facilities or landscaping works within the public recreation area should ensure the site is not impacted. The location of the site should be identified in the relevant conservation management plans, to avoid accidental damage during construction works.</p> <p>The conservation of this site is supported by the local Aboriginal community groups.</p>	LEP boundary. Signage in neighbourhood parklands could contribute to interpretation and recognition opportunities within the broader Wivenhoe lands. Further consultation with the local Aboriginal community groups would be required.	<p>of the APZ for the existing Wivenhoe development.</p> <p><b>To be retained in-situ</b></p>
52-2-3347 MD4	Isolated artefact	Moderate	<p>No impact.</p> <p>Site is within the conservation zone.</p>	<p>No action required.</p> <p>The location of the site should be identified in the relevant conservation management plans, to avoid accidental damage during construction works and ensure the site is not directly or indirectly impacted by future uses, management or maintenance activities within the conservation zone.</p> <p>The conservation of this site is supported by the local Aboriginal community groups.</p>	This site is located near a proposed trail and could contribute to interpretation and recognition opportunities within the conservation zone. Further consultation with the local Aboriginal community groups would be required.	<p>Located within the proposed E2 Environmental Conservation Zone, approximately 81 metres north-east of the proposed SP2 access corridor.</p> <p><b>To be retained in-situ</b></p>
52-2-3348 MD5	Isolated artefact	High	<p>No impact.</p> <p>Site is within the conservation zone.</p>	<p>No action required.</p> <p>The location of the site should be identified in the relevant conservation management plans, to avoid accidental damage during construction works and ensure the site is not directly or indirectly impacted by future uses, management or maintenance activities within the conservation zone. The conservation of this site is supported by the local Aboriginal community groups. CBNTCAC recommended a section 87 permit be obtained to allow the salvage collection of the artefact, an axe head, from the site location.</p>	The site is located near a proposed trail and could contribute to interpretation and recognition opportunities within the conservation zone. Further consultation with the local Aboriginal community groups would be required.	<p>Located within the proposed E2 Environmental Conservation Zone, approximately 120 metres from any development.</p> <p><b>To be retained in-situ</b></p>
52-2-3349	Isolated artefact	Moderate	<p>No impact.</p>	<p>No action required.</p>	The site is located near a proposed trail and could	<p>Located within the proposed E2</p>

AHIMS Site	Type	Significance	Impact Assessment	Management / Mitigation Actions	Enhancement Strategy	Status after proposed rezoning
MD6			Site is within the conservation zone.	<p>The location of the site should be identified in the relevant conservation management plans, to avoid accidental damage during construction works and ensure the site is not directly or indirectly impacted by future uses, management or maintenance activities within the conservation zone.</p> <p>The conservation of this site is supported by the local Aboriginal community groups. CBNTCAC recommended the site be avoided by proposed pedestrian trails.</p>	<p>contribute to interpretation and recognition opportunities within the conservation zone. Further consultation with the local Aboriginal community groups would be required.</p>	<p>Environmental Conservation Zone, in excess of 200 metres from any development.</p> <p><b>To be retained in-situ.</b></p>
52-2-3350 MD7	Open artefact scatter	High	<p>Has been impacted?</p> <p>Site is situated on existing trail created by Endeavour Energy.</p>	<p>The site should be avoided by detailed design of the trail if possible. It is noted the recorded area associated with the site is extensive (covering a 100m x 100m area).</p> <p>Further assessment of the spatial extent of the site (on the ground) would be required to determine the impact of detailed design. Further consultation with the local Aboriginal community groups would be required.</p> <p>Management measures or mitigation actions would be required for this site, with relevant permit/consent issued by DECC.</p> <p>CBNTCAC advised there would be no issues and no need for section 90 consent if the site is avoided by proposed pedestrian trails.</p>	<p>Opportunity for enhancement and recognition. The site is located on a proposed trail and could contribute to interpretation and recognition opportunities within the conservation zone. Further consultation with the local Aboriginal community groups would be required.</p>	<p>Located within the proposed E2 Environmental Conservation Zone, approximately 130 metres from any development.</p> <p><b>To be retained in-situ.</b></p>

AHIMS Site	Type	Significance	Impact Assessment	Management / Mitigation Actions	Enhancement Strategy	Status after proposed rezoning
52-2-3351 MD8	Isolated artefact	Low - Moderate	No impact  Site is within the conservation zone	No action required.  The location of the site should be identified in the relevant conservation management plans, to avoid accidental damage during construction works and ensure the site is not directly or indirectly impacted by future uses, management or maintenance activities within the conservation zone. The conservation of this site is supported by the local Aboriginal community groups.	The site is located near a proposed trail and could contribute to interpretation and recognition opportunities within the conservation zone. Further consultation with the local Aboriginal community groups would be required.	Located within the proposed E2 Environmental Conservation Zone, approximately 80 metres from any development.  <b>To be retained in-situ.</b>
52-2-3352 PAD6	Potential Archaeological Deposit	Moderate to High potential	No impact  Pad is wholly within the conservation zone	No action required.  The location of the PAD should be identified, in the relevant conservation management plans, to avoid accidental damage during construction works and ensure the site is not directly or indirectly impacted by future uses, management or maintenance activities within the conservation zone. The conservation of this PAD is supported by the local Aboriginal community groups		Located wholly within the proposed E2 Environmental Conservation Zone, approximately 120 metres west of the southern housing group within the Wyvern development  <b>To be retained in-situ.</b>
52-2-3353 MD-OS-1	Open artefact scatter	Low - Moderate	No direct impact. Site is situated in APZ between Precinct and Macquarie Grove Road.	No action required.  The location of the site should be identified in the relevant conservation management plans, to avoid accidental damage during construction works. Any future works or use of this area, including but not limited to maintenance of the APZ, construction and maintenance of the transmission line, road construction or subdivision construction should ensure the site is not directly or indirectly impacted.		Located within the proposed E2 Environmental Conservation Zone, within the Visual Buffer between the existing Wivenhoe development and Macquarie Grove Rd.  <b>To be retained in-situ.</b>

AHIMS Site	Type	Significance	Impact Assessment	Management / Mitigation Actions	Enhancement Strategy	Status after proposed rezoning
				CBNTCAC confirmed there should be no issues with this site provided it is avoided by machinery and earthworks.		
52-2-3355 MD-IF-1	Open artefact scatter	Low - moderate	Site is situated on transmission line easement and proposed trail.	The site should be avoided by detailed design of transmission line pole locations and trail if possible. If it cannot be avoided, section 90 consent will be required for this site. The DECC Interim Community Consultation Requirements for Applicants would be required to be implemented, if it is not deemed to be an ongoing project. CBNTCAC advised there would be no issues and no need for section 90 consent if the site is avoided.		Located within the proposed E2 Environmental Conservation Zone, approximately 25 metres south of the northern fenceline along Cobbitty Road. This site is in proximity to a transmission easement with an existing trail which have been constructed in order to avoid this site.  <b>To be retained in-situ.</b>
52-2-3356 MD-ST-1	Not an Aboriginal site (Scarred trees)	None	No direct impact. Site is situated in APZ between residential precinct and Macquarie Grove Road.	No action required		Located within the proposed E2 Environmental Conservation Zone, within the Visual Buffer between the existing Wivenhoe development and Macquarie Grove Rd.  <b>To be retained in-situ.</b>

### ***2.5.2 Potential impact of the proposal on Aboriginal heritage within the study area***

The proposal is for a PPR seeks to rezone parts of the site and allow the creation of super-lots (see Figure 2.1). These super-lots will then be managed by owners in accordance with their assigned purpose such as:

1. Central Mater Dei property (School) – to be Zoned SP2 Educational Establishment
2. Special Needs School / Facility - to be Zoned SP2 Educational Establishment
3. Natural Environment Conservation Lands - to be Zoned E2 Environmental Conservation
4. Rural Landscape holding – To be Zoned RU2 Rural Landscape

All of the twelve (12) AHIMS sites known to occur within the site (Lot 100, DP 1159926), Number 229, Macquarie Grove Road, Cobbitty will be retained within proposed new lot 204 which will be rezoned to E2 Environmental Conservation.

The proposed rezoning boundaries will follow existing fence lines and will not require any works or ground disturbance that would be likely to have any direct impact on any known or potential Aboriginal heritage items or previously recorded AHIMS site within the study area.

Despite the historical disturbance of the top layer of soil over much of the site for pastoral purposes, it is considered that the site does have potential to contain as yet undiscovered aboriginal artifacts. The main areas that are likely to contain aboriginal artifacts are along the numerous watercourses, watercourse confluences, adjoining flats, banks and riparian zones, on the lower slopes located just above the floodplain of the Nepean River and on ridgetops, knolls and rock outcrops. Some locations on higher ground in the western parts of the site may also contain artifacts from camps. Therefore, it is considered that no impacts on any known artifacts located within the Proposed E2 (Environmental Conservation) protected areas is likely to occur as a result of the proposed rezoning and subdivision into Super-lots.

## 3. CONCLUSIONS & RECOMMENDATIONS

### 3.1 Conclusions

Fourteen (14) sites within the study area (Lot 100 DP 1159926 – No. 229 Macquarie Grove Rd. Cobbitty) were listed within the *Aboriginal Heritage Information and Management System* (AHIMS).

These 14 sites have been studied in detail for the existing Wivenhoe residential development (*Kelleher Nightingale, 2008*). The Wivenhoe development required the recovery of one site which is no longer listed within the AHIMS database, while another site was determined to be not of aboriginal origin, and is also no longer listed. Therefore, there are now twelve (12) sites within the study area which are listed within the AHIMS database.

All twelve (12) of the remaining AHIMS sites are located within the proposed E2 Environmental Conservation area, or are incorporated into parkland which will be managed as a bushfire Asset Protection Zone (APZ) within the Wivenhoe village adjusted boundary. As a result, all known aboriginal artefacts within the study area will be retained in-situ within the proposed E2 zoned land.

Potential or undiscovered Aboriginal Heritage artefacts have a moderate likelihood to occur within the subject site. However, areas with the greatest potential to contain Aboriginal artifacts or aboriginal value such as the Nepean Riverbank, creeklines and the riparian zones will be retained within the proposed E2 zone. Therefore, it is considered that the proposal will result in minimal impacts on known or potential aboriginal deposits. Moreover, these deposits will be perpetually conserved and managed within the proposed E2 zone.

All other naturally vegetated areas within the site are intended to be retained and regenerated in accordance with the vegetation management plan and/or the weed control plan.

In the unlikely event that Aboriginal artefacts are identified during any weed control or land management activities, all works should cease. A qualified archaeologist is to be engaged to assess the item/s and to liaise with the local Aboriginal groups. The required consulting process will then facilitate alternative methods be employed to avoid impacts to Aboriginal heritage items. If soil or ground surface disturbance is unavoidable on or near an Aboriginal artefact, then an Aboriginal Heritage Impact Permit (AHIP) will be required before any resulting impacts are undertaken. Conversely, if no Aboriginal artefacts are identified, an AHIP application is not necessary and works can proceed without Aboriginal heritage constraint.

### 3.2 Recommendations

1. All known aboriginal artefacts or Potential Aboriginal Deposits (PADs) known within the proposed E2 Environmental Conservation zone are to be plotted and marked in the field and on any land management or vegetation management plans. These plans are to operate in such a way as to conserve all of these sites at their current location and in perpetuity.
2. If as yet undiscovered Aboriginal artefacts are identified during any excavation or soil disturbance phase of the site management, then works will cease in the affected area and the artifacts will be assessed in accordance with the *Code of Practice for*

*Archaeological Investigation of Aboriginal Objects in NSW 2010*, an AHIP will be required for any impacts arising from the works.

3. An Aboriginal Heritage Impact Permit (AHIP) is required if impacts to Aboriginal objects and/or places cannot be avoided. Applications for an AHIP must be accompanied by an assessment report conducted in accordance with the *Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW 2010*. Applications must also provide evidence of consultation with the Aboriginal communities. Consultation is required under Part 8A of the NPW Regulation 2009 and is to be conducted in accordance with the *Aboriginal Heritage Consultation Requirements for Proponents*.



## 4. BIBLIOGRAPHY

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## APPENDIX 1. AHIMS SITE CARDS



# Aboriginal Sites Register of NSW

NPWS, PO Box 1967, Hurstville NSW 2220

Standard Site Recording Form

New Recording  Additional

Information

SITE IDENTIFICATION					
Site name	MD1			NPWS Site Number	52-2-3344
Owner/manager	Sisters of the Good Samaritan				
Owner Address					
LOCATION					
Location	Camden, west of Macquarie Grove Rd and south of Cobbity Rd.				
How to get to the site	See attached topographic map				
1:250,000 map name				NPWS map code	
AMG Zone	56	AMG Easting	288278	AMG Northing	6232209
Method for grid reference	Hand-held GPS	Map scale (if method = map)	1:25,000	Map name	Camden 9029-4N (map published in 1987)
NPWS District	Sydney			NPWS Zone	
Portion no.				Parish	
SITE DESCRIPTION					
Site type(s)	Isolated Find			Site type code (NPWS use only)	
Description of site and contents CHECKLIST: eg. length, width, depth, height of site, shelter, deposit, structure, element eg. tree scar, grooves in rock. DEPOSIT: colour, texture, estimated depth, stratigraphy, contents-shell, bone, stone, charcoal, density & distribution of these, stone types, artefact types. ART: area of decorated surface, motifs, colours, wet/dry pigment, engraving technique, no. of figures, sizes, patination. BURIALS: number & condition of bone, position, age, sex, associated artefacts. TREES: number, alive, dead, likely age, scar shape, position, size, patterns, axe marks, regrowth. QUARRIES: rock type, debris, recognisable artefacts, percentage quarried	MD1 is located along a low ridge line running adjacent to Macquarie Grove Road. The artefact was located approximately 2-3m from the fence line and 10m from the road. The area appears moderately to heavily disturbed, although heavy grass growth obscures a large majority of the area. The artefact was located on a small area of exposure, and consists of a silcrete proximal flake with evidence of retouch along one margin.				

Version: June 1998

Data entered by:

Date entered:

P



# Aboriginal Sites Register of NSW

NPWS, PO Box 1967, Hurstville NSW 2220

## Standard Site Recording Form

SITE ENVIRONMENT					
Land form	Ridge	Aspect		Slope	
Mark position of the site					
Local rock type	Shale, medium grained sandstone, carbonaceous claystone, laminate and minor coal bands.	Land use/effect	Extensive clearing and modification for pastures and grazing.		
Distance from drinking water	approx. 500m	Source	Tributary of the Nepean River		
Resource zone (eg. estuarine, river, forest)	wooded, near wetlands	Vegetation	Cumberland Plain woodland, native grasslands and exotic species.		
Edible plants		Faunal resources (include shellfish)			
Other exploitable resources (eg. ochre)					
Are there other sites in the locality	Yes	Are they in the Sites Register	Yes	Other site types include	Open Camp Sites and PADs.
SITE MANAGEMENT					
Site condition	Very disturbed	Moderate to high disturbance; Low to moderate significance.			
Management recommendations	Report recommends Section 90.				
Have artefacts been removed from site	No	When			
By whom			Deposited at		
Consent applied for	<input type="checkbox"/>	Consent issued		<input type="checkbox"/>	
Date of issue			Consent number		
SITE INSPECTION AND RECORDING					
Reason for investigation	Aboriginal Heritage Assessment (Phase 2 Survey)				
Were local Aborigines contacted or present for the recording	<input type="checkbox"/> Not contacted <input checked="" type="checkbox"/> Contacted and present <input type="checkbox"/> Contacted but not present	Names and addresses	Leanne Hestelow Tharawal LALC PO Box 440 Picton NSW 2571  Glenda Chalker Cubbitch Barta NTCAC 55 Nightingale Rd Pheasants Nest NSW 2574		
Is the site important to local Aborigines					
Verbal/written reference	Harrington Park 2 Mater Dei Rezoning Project Phase 2	ASR report	C-		

**MD 1 Site Photos**



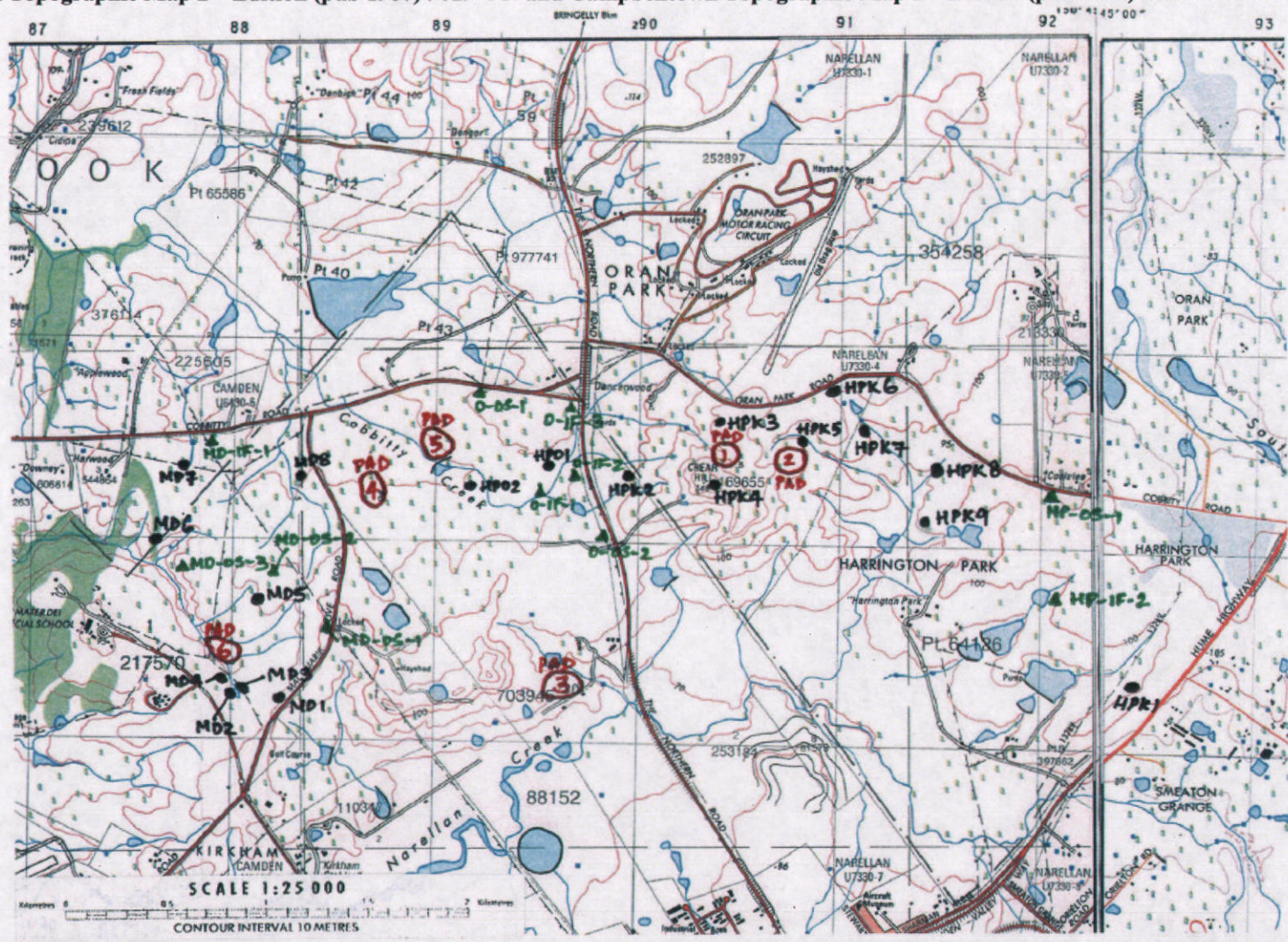
**Plate 1: Site MD 1 looking south along fence line. Macquarie Grove Road on the left.**



**Plate 2: Silcrete artefact from MD 1**

Camden Topographic Map 2<sup>nd</sup> Edition (pub 1987) 9029-4-N and Campbelltown Topographic Map 2<sup>nd</sup> Edition (pub 1985) 9029-1-N

N↑





# Aboriginal Sites Register of NSW

NPWS, PO Box 1987, Hurstville NSW 2220

## Standard Site Recording Form

New Recording  Additional

Information

### SITE IDENTIFICATION

Site name	MD2 <i>Camden</i>	NPWS Site Number	52-2-3345
Owner/manager	Sisters of the Good Samaritan		
Owner Address			

### LOCATION

Location	Camden, west of Macquarie Grove Rd and south of Cobbity Rd.				
How to get to the site	See attached topographic map				
1:250,000 map name			NPWS map code		
AMG Zone	56	AMG Easting	287995	AMG Northing	6232233
Method for grid reference	Hand-held GPS	Map scale (if method = map)	1:25,000	Map name	Camden 9029-4N (map published in 1987)
NPWS District	Sydney		NPWS Zone		
Portion no.			Parish		

### SITE DESCRIPTION

Site type(s)	Isolated Find	Site type code (NPWS use only)	
Description of site and contents CHECKLIST: eg. length, width, depth, height of site, shelter, deposit, structure, element eg. tree scar, grooves in rock. DEPOSIT: colour, texture, estimated depth, stratigraphy, contents-shell, bone, stone, charcoal, density & distribution of these, stone types, artefact types. ART: area of decorated surface, motifs, colours, wet/dry pigment, engraving technique, no. of figures, sizes, patination. BURIALS: number & condition of bone, position, age, sex, associated artefacts. TREES: number, alive, dead. likely age, scar shape, position, size, patterns, axe marks, regrowth. QUARRIES: rock type, debris, recognisable artefacts, percentage quarried	<p>MD2 is located along the edge of a dam, approximately 10-15m to the west of the waterline. The dam is located at the upper reaches of Sickle Creek and appears to conform to the natural landscape, with dam banks raised on the northern side to stop movement of water into the natural channel.</p> <p>The location of the artefact is along a raised spur which does not appear to be man made, the western side of the dam is substantially higher than the eastern side (location of MD3). The area appears heavily disturbed, mainly due to what appears to be heavy ploughing of the area, with associated disturbance of the area, with associated disturbance of the subsurface deposit. The area has been totally cleared although stands of new growth trees have occupied the northern section of the dam where it drains into the original creek. One silcrete artefact was found at this site, red-pink in colour, 20mm long.</p>		

Version: June 1998

Data entered by: *JR*

Date entered:



# Aboriginal Sites Register of NSW

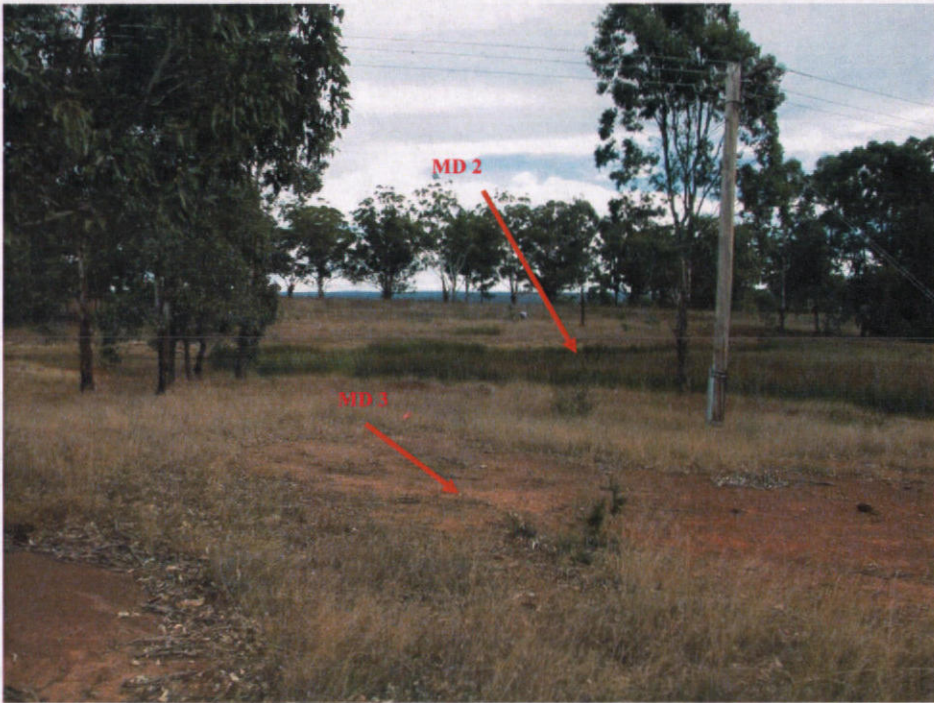
NPWS, PO Box 1967, Hurstville NSW 2220

## Standard Site Recording Form

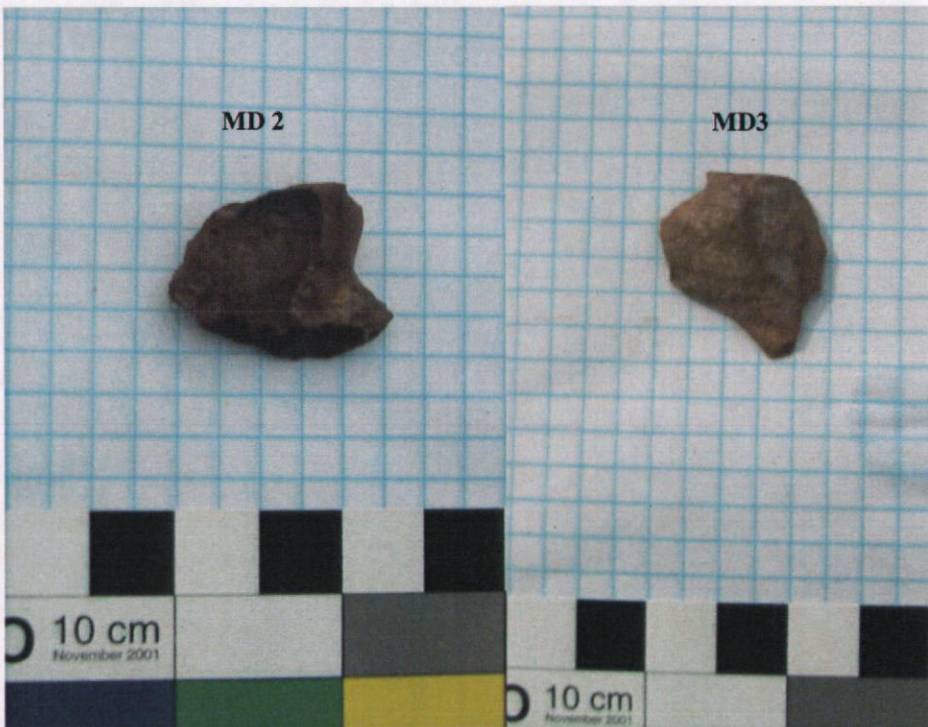
SITE ENVIRONMENT					
Land form	Upper sloper		Aspect		Slope
Mark position of the site					
Local rock type	Shale, medium grained sandstone, carbonaceous claystone, laminate and minor coal bands.		Land use/effect	Extensive clearing and modification for pastures and grazing.	
Distance from drinking water	10-15m		Source	Tributary of the Nepean River	
Resource zone (eg. estuarine, river, forest)	wooded, near wetlands		Vegetation	Cumberland Plain woodland, native grasslands and exotic species.	
Edible plants			Faunal resources (include shellfish)		
Other exploitable resources (eg. ochre)					
Are there other sites in the locality	Yes	Are they in the Sites Register	Yes	Other site types include	Open Camp Sites and PADs.
SITE MANAGEMENT					
Site condition	Very disturbed		High disturbance; low - moderate significance		
Management recommendations	Report recommends site be conserved.				
Have artefacts been removed from site	No		When		
By whom			Deposited at		
Consent applied for	<input type="checkbox"/>		Consent issued	<input type="checkbox"/>	
Date of issue			Consent number		
SITE INSPECTION AND RECORDING					
Reason for investigation	Aboriginal Heritage Assessment (Phase 2 Survey)				
Were local Aborigines contacted or present for the recording	<input type="checkbox"/> Not contacted <input checked="" type="checkbox"/> Contacted and present <input type="checkbox"/> Contacted but not present	Names and addresses	Leanne Hestelow Tharawal LALC PO Box 440 Picton NSW 2571  Glenda Chalker Cubbitch Barta NTCAC 55 Nightingale Rd Pheasants Nest NSW 2574		
Is the site important to local Aborigines	Yes				
Verbal/written reference	Harrington Park 2 Mater Del Rezoning Project Phase 2		ASR report	C-	



**MD2 and MD3 Site Photos**

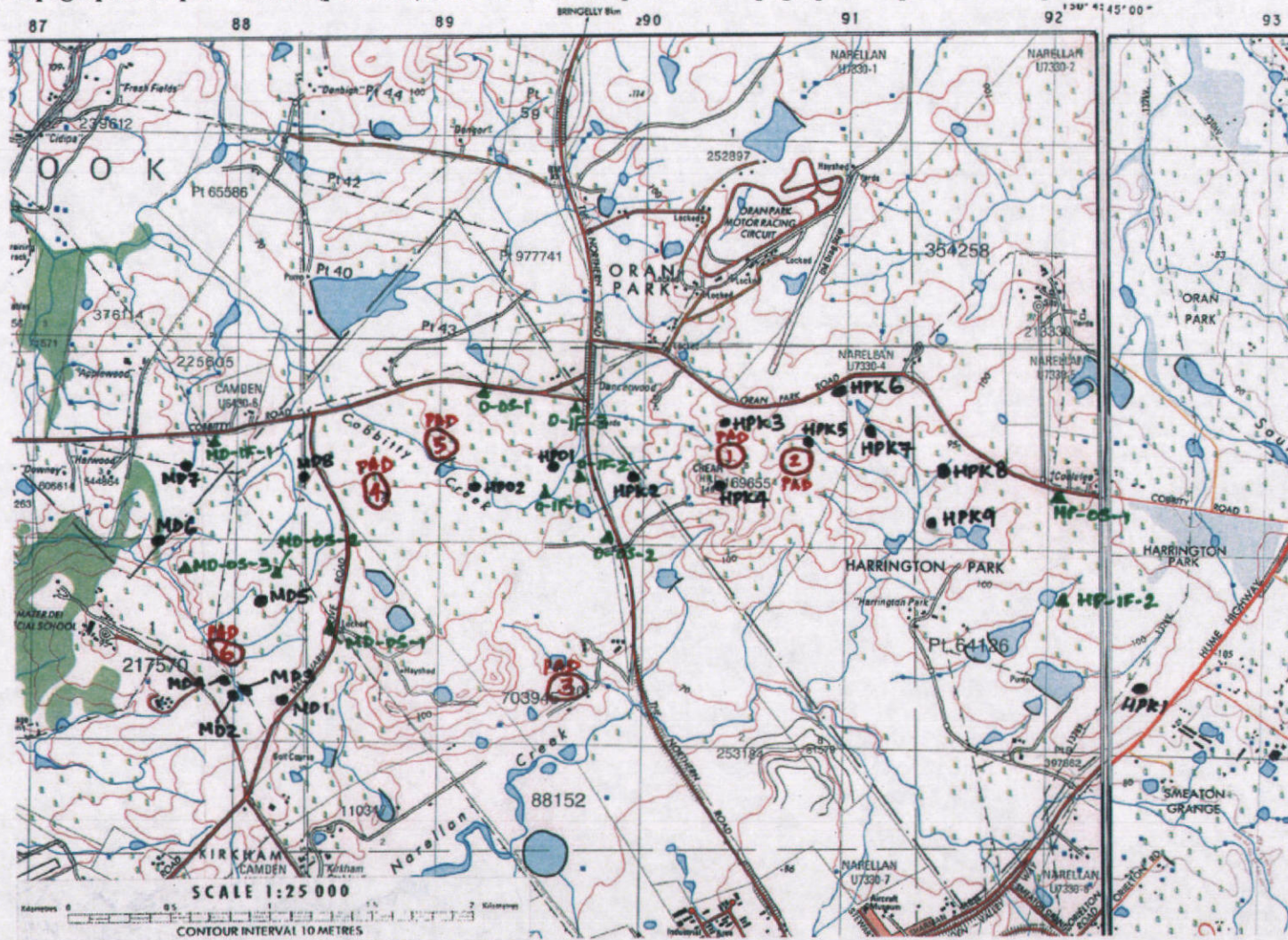


**Plate 1: Sites MD 2 and MD 3 located by the side of dam. Photo looking west.**



**Plate 2: Silcrete artefacts from MD 2 and 3.**

Camden Topographic Map 2<sup>nd</sup> Edition (pub 1987) 9029-4-N and Campbelltown Topographic Map 2<sup>nd</sup> Edition (pub 1985) 9029-1-N





# Aboriginal Sites Register of NSW

NPWS, PO Box 1967, Hurstville NSW 2220

## Standard Site Recording Form

New Recording  Additional

Information

SITE IDENTIFICATION					
Site name	MD3			NPWS Site Number	52-2-3346
Owner/manager	Sisters of the Good Samaritan				
Owner Address					
LOCATION					
Location	Camden, west of Macquarie Grove Rd and south of Cobbity Rd.				
How to get to the site	See attached topographic map				
1:250,000 map name				NPWS map code	
AMG Zone	56	AMG Easting	288091	AMG Northing	6232254
Method for grid reference	Hand-held GPS	Map scale (if method = map)	1:25,000	Map name	Camden 9029-4N (map published in 1987)
NPWS District	Sydney			NPWS Zone	
Portion no.				Parish	
SITE DESCRIPTION					
Site type(s)	Isolated Find			Site type code (NPWS use only)	
Description of site and contents CHECKLIST: eg. length, width, depth, height of site, shelter, deposit, structure, element eg. tree scar, grooves in rock. DEPOSIT: colour, texture, estimated depth, stratigraphy, contents-shell, bone, stone, charcoal, density & distribution of these, stone types, artefact types. ART: area of decorated surface, motifs, colours, wet/dry pigment, engraving technique, no. of figures, sizes, patination. BURIALS: number & condition of bone, position, age, sex, associated artefacts. TREES: number, alive, dead, likely age, scar shape, position, size, patterns, axe marks, regrowth. QUARRIES: rock type, debris, recognisable artefacts, percentage quarried	Located on the opposite side (eastern) of the dam to MD2, this site is situated on a slightly raised area approximately 10m to the west of the waterline. Previous installation of a power pole appears to have disturbed localised areas of the site, and there appears to be active erosion in the area. Vegetation cover is sparse, with patchy grass cover over the raised area. The site is situated at the base of a slope running west of the main ridge line off Macquarie Grove Road. The paddock where this is situated has been heavily ploughed both in the past and recently. One silicified tuff flake was located at this site (pink and tan in colour, 20mm long).				

Version: June 1998

Data entered by:

Date entered:



# Aboriginal Sites Register of NSW

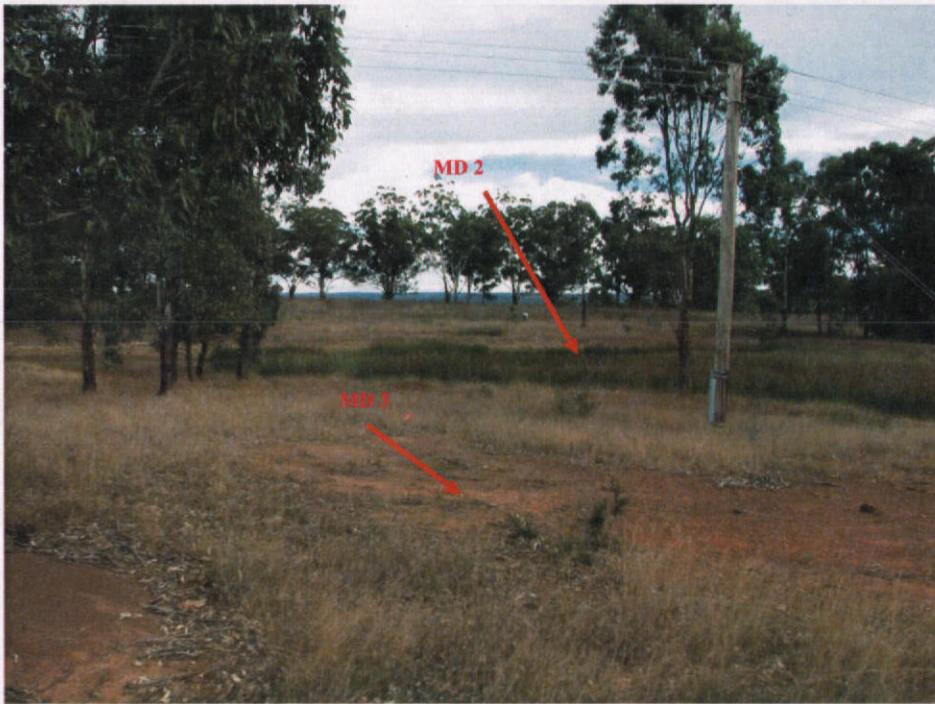
NPWS, PO Box 1967, Hurstville NSW 2220

## Standard Site Recording Form

SITE ENVIRONMENT					
Land form	lower slope		Aspect		Slope
Mark position of the site					
Local rock type	Shale, medium grained sandstone, carbonaceous claystone, laminate and minor coal bands.		Land use/effect	Extensive clearing and modification for pastures and grazing.	
Distance from drinking water	within 20m		Source	Tributary of the Nepean River	
Resource zone (eg. estuarine, river, forest)	wooded, near wetlands		Vegetation	Cumberland Plain woodland, native grasslands and exotic species.	
Edible plants			Faunal resources (Include shellfish)		
Other exploitable resources (eg. ochre)					
Are there other sites in the locality	Yes	Are they in the Sites Register	Yes	Other site types include	Open Camp Sites and PADs.
SITE MANAGEMENT					
Site condition	Very disturbed		Moderate to high disturbance; low-moderate significance.		
Management recommendations	Report recommends site be conserved.				
Have artefacts been removed from site	No		When		
By whom			Deposited at		
Consent applied for	<input type="checkbox"/>		Consent issued	<input type="checkbox"/>	
Date of issue			Consent number		
SITE INSPECTION AND RECORDING					
Reason for investigation	Aboriginal Heritage Assessment (Phase 2 Survey)				
Were local Aborigines contacted or present for the recording	<input type="checkbox"/> Not contacted <input checked="" type="checkbox"/> Contacted and present <input type="checkbox"/> Contacted but not present		Names and addresses	Leanne Hestelow Tharawal LALC PO Box 440 Picton NSW 2571  Glenda Chalker Cubbitch Barta NTCAC 55 Nightingale Rd Pheasants Nest NSW 2574	
Is the site important to local Aborigines	Yes				
Verbal/written reference	Harrington Park 2 Mater Del Rezoning Project Phase 2		ASR report	C-	



**MD2 and MD3 Site Photos**



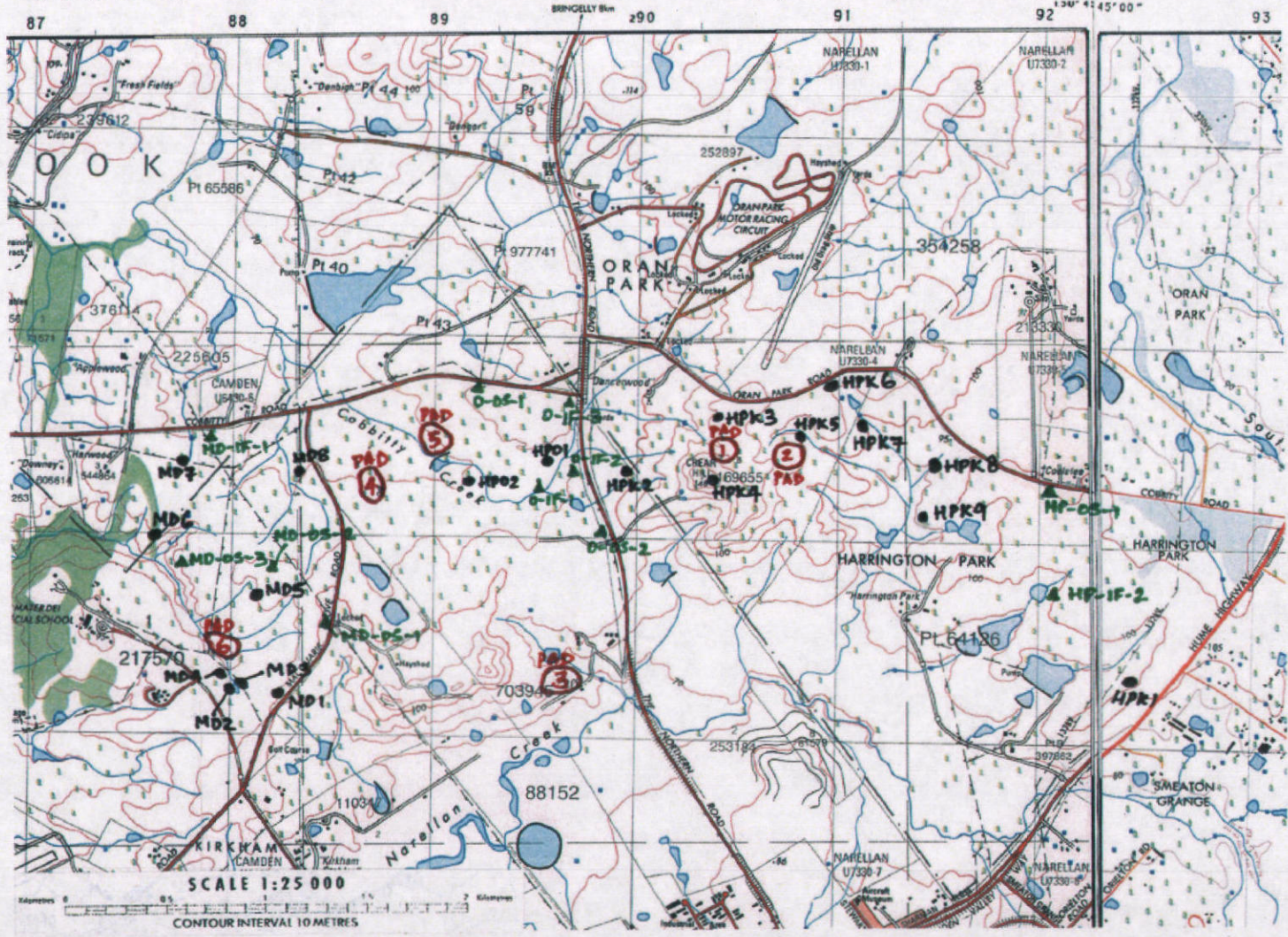
**Plate 1: Sites MD 2 and MD 3 located by the side of dam. Photo looking west.**



**Plate 2: Silcrete artefacts from MD 2 and 3.**

Camden Topographic Map 2<sup>nd</sup> Edition (pub 1987) 9029-4-N and Campbelltown Topographic Map 2<sup>nd</sup> Edition (pub 1985) 9029-1-N

N ↑





# Aboriginal Sites Register of NSW

NPWS, PO Box 1967, Hurstville NSW 2220

## Standard Site Recording Form

New Recording  Additional

information

SITE IDENTIFICATION					
Site name	MD4			NPWS Site Number	52-2-3347
Owner/manager	Sisters of the Good Samaritan				
Owner Address					
LOCATION					
Location	Camden, west of Macquarie Grove Rd and south of Cobbity Rd.				
How to get to the site	See attached topographic map				
1:250,000 map name				NPWS map code	
AMG Zone	56	AMG Easting	287958	AMG Northing	6232287
Method for grid reference	Hand-held GPS	Map scale (if method = map)	1:25,000	Map name	Camden 9029-4N (map published in 1987)
NPWS District	Sydney			NPWS Zone	
Portion no.				Parish	
SITE DESCRIPTION					
Site type(s)	Isolated Find			Site type code (NPWS use only)	
Description of site and contents CHECKLIST: eg. length, width, depth, height of site, shelter, deposit, structure, element eg. tree scar, grooves in rock. DEPOSIT: colour, texture, estimated depth, stratigraphy, contents-shell, bone, stone, charcoal, density & distribution of these, stone types, artefact types. ART: area of decorated surface, motifs, colours, wet/dry pigment, engraving technique, no. of figures, sizes, patination. BURIALS: number & condition of bone, position, age, sex, associated artefacts. TREES: number, alive, dead, likely age, scar shape, position, size, patterns, axe marks, regrowth. QUARRIES: rock type, debris, recognisable artefacts, percentage quarried	Located approximately 40-50m to the north-west of MD2, the artefact was located along the same heavily ploughed area. However it was located at the base of a raised spur running down towards the main drainage channel. The spur or mound has new growth trees and grass cover so surface exposure was minimal. It is estimated that the site would extend over the raised area running towards the creek. The mound appears minimally to moderately disturbed although it was difficult to assess subsurface disturbance. One siltcrete distal flake was located at this site.				



# Aboriginal Sites Register of NSW

NPWS, PO Box 1967, Hurstville NSW 2220

## Standard Site Recording Form

SITE ENVIRONMENT					
Land form	upper slope		Aspect		Slope
Mark position of the site					
Local rock type	Shale, medium grained sandstone, carbonaceous claystone, laminate and minor coal bands.		Land use/effect	Extensive clearing and modification for pastures and grazing.	
Distance from drinking water	50m		Source	Tributary of the Nepean River	
Resource zone (eg. estuarine, river, forest)	wooded, near wetlands		Vegetation	Cumberland Plain woodland, native grasslands and exotic species.	
Edible plants			Faunal resources (include shellfish)		
Other exploitable resources (eg. ochre)					
Are there other sites in the locality	Yes	Are they in the Sites Register	Yes	Other site types include	Open Camp Sites and PADs.
SITE MANAGEMENT					
Site condition	Disturbed		Low-moderate disturbance; moderate significance.		
Management recommendations	Report recommends site be conserved.				
Have artefacts been removed from site	No		When		
By whom			Deposited at		
Consent applied for	<input type="checkbox"/>		Consent issued	<input type="checkbox"/>	
Date of issue			Consent number		
SITE INSPECTION AND RECORDING					
Reason for investigation	Aboriginal Heritage Assessment (Phase 2 Survey)				
Were local Aborigines contacted or present for the recording	<input type="checkbox"/> Not contacted <input checked="" type="checkbox"/> Contacted and present <input type="checkbox"/> Contacted but not present		Names and addresses	Leanne Hestelow Tharawal LALC PO Box 440 Picton NSW 2571  Glenda Chalker Cubblitch Barta NTCAC 55 Nightingale Rd Pheasants Nest NSW 2574	
Is the site important to local Aborigines					
Verbal/written reference	Harrington Park 2 Mater Dei Rezoning Project Phase 2		ASR report	C-	



**MD 4 Site Photos**



**Plate 1: Site MD 4 – artefact found at the edge of ploughed area. The extent of the site would encompass the mounded area behind the artefact.**



**Plate 2: Artefact found at MD 4.**

Camden Topographic Map 2<sup>nd</sup> Edition (pub 1987) 9029-4-N and Campbelltown Topographic Map 2<sup>nd</sup> Edition (pub 1985) 9029-1-N





# Aboriginal Sites Register of NSW

NPWS, PO Box 1967, Hurstville NSW 2220

## Standard Site Recording Form

New Recording  Additional

Information

SITE IDENTIFICATION					
Site name	MD5		NPWS Site Number	52-2-3348	
Owner/manager	Sisters of the Good Samaritan				
Owner Address					
LOCATION					
Location	Camden, west of Macquarie Grove Rd and south of Cobbity Rd.				
How to get to the site	See attached topographic map				
1:250,000 map name			NPWS map code		
AMG Zone	56	AMG Easting	288102	AMG Northing	6232562
Method for grid reference	Hand-held GPS	Map scale (if method = map)	1:25,000	Map name	Camden 9029-4N (map published in 1987)
NPWS District	Sydney		NPWS Zone		
Portion no.			Parish		
SITE DESCRIPTION					
Site type(s)	Isolated Find		Site type code (NPWS use only)		
Description of site and contents CHECKLIST: eg. length, width, depth, height of site, shelter, deposit, structure, element eg. tree scar, grooves in rock. DEPOSIT: colour, texture, estimated depth, stratigraphy, contents-shell, bone, stone, charcoal, density & distribution of these, stone types, artefact types. ART: area of decorated surface, motifs, colours, wet/dry pigment, engraving technique, no. of figures, sizes, patination. BURIALS: number & condition of bone, position, age, sex, associated artefacts. TREES: number, alive, dead, likely age, scar shape, position, size, patterns, axe marks, regrowth. QUARRIES: rock type, debris, recognisable artefacts, percentage quarried	MD5 is located near the mid point of a spur running west from the main ridgeline running adjacent to Macquarie Grove Road, the spur is one of a series running in this direction. The area has relatively dense grass and leaf cover with surface visibility minimal. The area appears to have been cleared at some time in the past, although individual mature Eucalypts are also present scattered throughout the area. There is no visible evidence of ploughing or other subsurface disturbance. The ground edged axe was located in dense leaf litter and grass, and appears to have some recent damage.  One 70 x 60 mm axe fragment was located at this site, of igneous material, tan in colour, damaged.				

Version: June 1998

Data entered by:

Date entered:



# Aboriginal Sites Register of NSW

NPWS, PO Box 1967, Hurstville NSW 2220

## Standard Site Recording Form

SITE ENVIRONMENT					
Land form	ridge/mid-slope		Aspect		Slope
Mark position of the site					
Local rock type	Shale, medium grained sandstone, carbonaceous claystone, laminate and minor coal bands.		Land use/effect	Extensive clearing and modification for pastures and grazing.	
Distance from drinking water	250m		Source	Tributary of the Nepean River	
Resource zone (eg. estuarine, river, forest)	wooded, near wetlands		Vegetation	Cumberland Plain woodland, native grasslands and exotic species.	
Edible plants			Faunal resources (include shellfish)		
Other exploitable resources (eg. ochre)					
Are there other sites in the locality	Yes	Are they in the Sites Register	Yes	Other site types include	Open Camp Sites and PADs.
SITE MANAGEMENT					
Site condition	Good		Low disturbance; high significance.		
Management recommendations	Report recommends site be conserved.				
Have artefacts been removed from site	No		When		
By whom			Deposited at		
Consent applied for	<input type="checkbox"/>		Consent issued	<input type="checkbox"/>	
Date of issue			Consent number		
SITE INSPECTION AND RECORDING					
Reason for investigation	Aboriginal Heritage Assessment (Phase 2 Survey)				
Were local Aborigines contacted or present for the recording	<input type="checkbox"/> Not contacted <input checked="" type="checkbox"/> Contacted and present <input type="checkbox"/> Contacted but not present		Names and addresses	Leanne Hestelow Tharawal LALC PO Box 440 Picton NSW 2571  Glenda Chalker Cubbitch Barta NTCAC 55 Nightingale Rd Pheasants Nest NSW 2574	
Is the site important to local Aborigines					
Verbal/written reference	Harrington Park 2 Mater Dei Rezoning Project Phase 2		ASR report	C-	

**MD5 Site Photos**

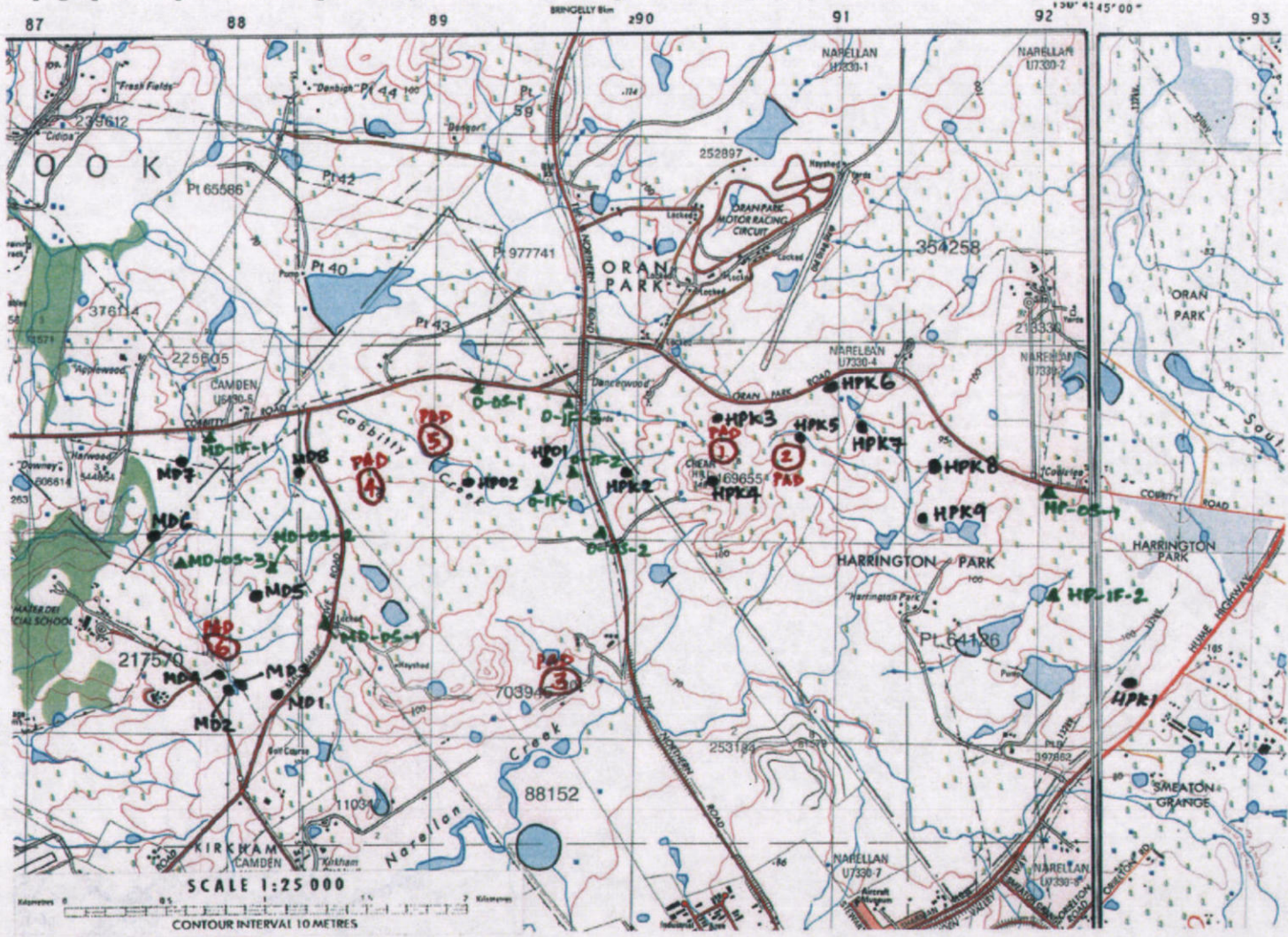


**Plate 1: Site MD 5 – located in the middle of a gently sloping spur line with drainage lines on both sides.**



**Plate 2: Ground axe fragment from MD 5. Some areas of recent damage apparent.**

Camden Topographic Map 2<sup>nd</sup> Edition (pub 1987) 9029-4-N and Campbelltown Topographic Map 2<sup>nd</sup> Edition (pub 1985) 9029-1-N





# Aboriginal Sites Register of NSW

NPWS, PO Box 1967, Hurstville NSW 2220

## Standard Site Recording Form

New Recording  Additional

Information

SITE IDENTIFICATION					
Site name	MD6			NPWS Site Number	52-2-3349
Owner/manager	Sisters of the Good Samaritan				
Owner Address					
LOCATION					
Location	Camden, west of Macquarie Grove Rd and south of Cobbity Rd.				
How to get to the site	See attached topographic map				
1:250,000 map name				NPWS map code	
AMG Zone	56	AMG Easting	287635	AMG Northing	6233053
Method for grid reference	Hand-held GPS	Map scale (If method = map)	1:25,000	Map name	Camden 9029-4N (map published in 1987)
NPWS District	Sydney			NPWS Zone	
Portion no.				Parish	
SITE DESCRIPTION					
Site type(s)	Isolated Find			Site type code (NPWS use only)	
Description of site and contents CHECKLIST: eg. length, width, depth, height of site, shelter, deposit, structure, element eg. tree scar, grooves in rock. DEPOSIT: colour, texture, estimated depth, stratigraphy, contents-shell, bone, stone, charcoal, density & distribution of these, stone types, artefact types. ART: area of decorated surface, motifs, colours, wet/dry pigment, engraving technique, no. of figures, sizes, patination. BURIALS: number & condition of bone, position, age, sex, associated artefacts. TREES: number, alive, dead, likely age, scar shape, position, size, patterns, axe marks, regrowth. QUARRIES: rock type, debris, recognisable artefacts, percentage quarried	MD6 is located along the mid-slope of a southern reaching spur near the western boundary of the study area. The artefact was located in an area of exposure spur with only sparse grass cover although moderate to heavy leaf litter. There is a stand of mature trees running along the spur approximately 3 to 5m to the west of where the artefact was found. The slope becomes steep as it nears the creek (which along most of its length and particularly at this point is very deep with vertical walls of up the 5m with moderate to high erosion). A very high quality banded chert artefact with retouch was located at this site.				

Version: June 1998

Data entered by:

Date entered:



# Aboriginal Sites Register of NSW

NPWS, PO Box 1967, Hurstville NSW 2220

## Standard Site Recording Form

SITE ENVIRONMENT					
Land form	ridge/mid-slope		Aspect		Slope
Mark position of the site					
Local rock type	Shale, medium grained sandstone, carbonaceous claystone, laminate and minor coal bands.		Land use/effect	Extensive clearing and modification for pastures and grazing.	
Distance from drinking water	100m		Source	Tributary of the Nepean River	
Resource zone (eg. estuarine, river, forest)	wooded, near wetlands		Vegetation	Cumberland Plain woodland, native grasslands and exotic species.	
Edible plants			Faunal resources (include shellfish)		
Other exploitable resources (eg. ochre)					
Are there other sites in the locality	Yes	Are they in the Sites Register	Yes	Other site types include	Open Camp Sites and PADs.
SITE MANAGEMENT					
Site condition	Disturbed		Low-moderate; moderate significance.		
Management recommendations	Report recommends site be conserved.				
Have artefacts been removed from site	No		When		
By whom			Deposited at		
Consent applied for	<input type="checkbox"/>		Consent issued	<input type="checkbox"/>	
Date of issue			Consent number		
SITE INSPECTION AND RECORDING					
Reason for investigation	Aboriginal Heritage Assessment (Phase 2 Survey)				
Were local Aborigines contacted or present for the recording	<input type="checkbox"/> Not contacted <input checked="" type="checkbox"/> Contacted and present <input type="checkbox"/> Contacted but not present	Names and addresses	Leanne Hestelow Tharawal LALC PO Box 440 Picton NSW 2571  Glenda Chalker Cubbitch Barta NTCAC 55 Nightingale Rd Pheasants Nest NSW 2574		
Is the site important to local Aborigines					
Verbal/written reference	Harrington Park 2 Mater Del Rezoning Project Phase 2		ASR report	C-	



**MD 6 Site Photos**



**Plate 1: MD 6 – artefact marked by flag.**



**Plate 2: Chert Artefact from site MD 6**

Camden Topographic Map 2<sup>nd</sup> Edition (pub 1987) 9029-4-N and Campbelltown Topographic Map 2<sup>nd</sup> Edition (pub 1985) 9029-1-N

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# Aboriginal Sites Register of NSW

NPWS, PO Box 1967, Hurstville NSW 2220

## Standard Site Recording Form

New Recording  Additional

Information

SITE IDENTIFICATION					
Site name	MD7			NPWS Site Number	52-2-3350
Owner/manager	Sisters of the Good Samaritan				
Owner Address					
LOCATION					
Location	Camden, west of Macquarie Grove Rd and south of Cobbly Rd.				
How to get to the site	See attached topographic map				
1:250,000 map name				NPWS map code	
AMG Zone	56	AMG Easting	287747	AMG Northing	6233378
Method for grid reference	Hand-held GPS	Map scale (if method = map)	1:25,000	Map name	Camden 9029-4N (map published in 1987)
NPWS District	Sydney			NPWS Zone	
Portion no.				Parish	
SITE DESCRIPTION					
Site type(s)	Open Camp Site			Site type code (NPWS use only)	
<p><b>Description of site and contents</b>  <b>CHECKLIST:</b> eg. length, width, depth, height of site, shelter, deposit, structure, element eg. tree scar, grooves in rock.  <b>DEPOSIT:</b> colour, texture, estimated depth, stratigraphy, contents-shell, bone, stone, charcoal, density &amp; distribution of these, stone types, artefact types.  <b>ART:</b> area of decorated surface, motifs, colours, wet/dry pigment, engraving technique, no. of figures, sizes, patination.  <b>BURIALS:</b> number &amp; condition of bone, position, age, sex, associated artefacts.  <b>TREES:</b> number, alive, dead, likely age, scar shape, position, size, patterns, axe marks, regrowth.  <b>QUARRIES:</b> rock type, debris, recognisable artefacts, percentage quarried</p>	<p>This is an extensive site with artefacts scattered across an area roughly 100m x 100m. Artefacts were located in very dense leaf litter with exposure predominantly located along a dirt track associated with a transmission line running east to west along the northern edge of the site. The site is situated on a gently sloping hill leading to drainage lines to the north. The area appears minimally disturbed with mature Eucalypts scattered across the entire area. Some recent clearing has occurred, although no visible subsurface disturbance is evident.</p> <p>The main concentration of visible artefacts is located along and beside the dirt track, although isolated artefacts were located over a wider area. The identified artefacts consist of 14 silcrete flakes and flake fragments and four chert flakes.</p>				

Version: June 1998

Data entered by:

Date entered:

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# Aboriginal Sites Register of NSW

NPWS, PO Box 1967, Hurstville NSW 2220

## Standard Site Recording Form

SITE ENVIRONMENT					
Land form	ridge/mld-slope		Aspect		Slope
Mark position of the site					
Local rock type	Shale, medium grained sandstone, carbonaceous claystone, laminate and minor coal bands.		Land use/effect	Extensive clearing and modification for pastures and grazing.	
Distance from drinking water	1km		Source	Tributary of the Nepean River	
Resource zone (eg. estuarine, river, forest)	wetlands		Vegetation	Native grasslands and exotic species.	
Edible plants			Faunal resources (include shellfish)		
Other exploitable resources (eg. ochre)					
Are there other sites in the locality	Yes	Are they in the Sites Register	Yes	Other site types include	Isolated Finds & PADs.
SITE MANAGEMENT					
Site condition	Good		Low disturbance; high significance.		
Management recommendations	Report recommends site be conserved.				
Have artefacts been removed from site	No		When		
By whom			Deposited at		
Consent applied for	<input type="checkbox"/>		Consent issued	<input type="checkbox"/>	
Date of issue			Consent number		
SITE INSPECTION AND RECORDING					
Reason for investigation	Aboriginal Heritage Assessment (Phase 2 Survey)				
Were local Aborigines contacted or present for the recording	<input type="checkbox"/> Not contacted <input checked="" type="checkbox"/> Contacted and present <input type="checkbox"/> Contacted but not present	Names and addresses	Leanne Hestelow Tharawal LALC PO Box 440 Picton NSW 2571  Glenda Chalker Cubbitch Barta NTCAC 55 Nightingale Rd Pheasants Nest NSW 2574		
Is the site important to local Aborigines					
Verbal/written reference	Harrington Park 2 Mater Dei Rezoning Project Phase 2		ASR report	C-	

**MD 7 Site Photos**



**Plate 1: MD 7 – an extensive site. Photo showing the main concentration of visible artefacts located beside track. (Looking east)**

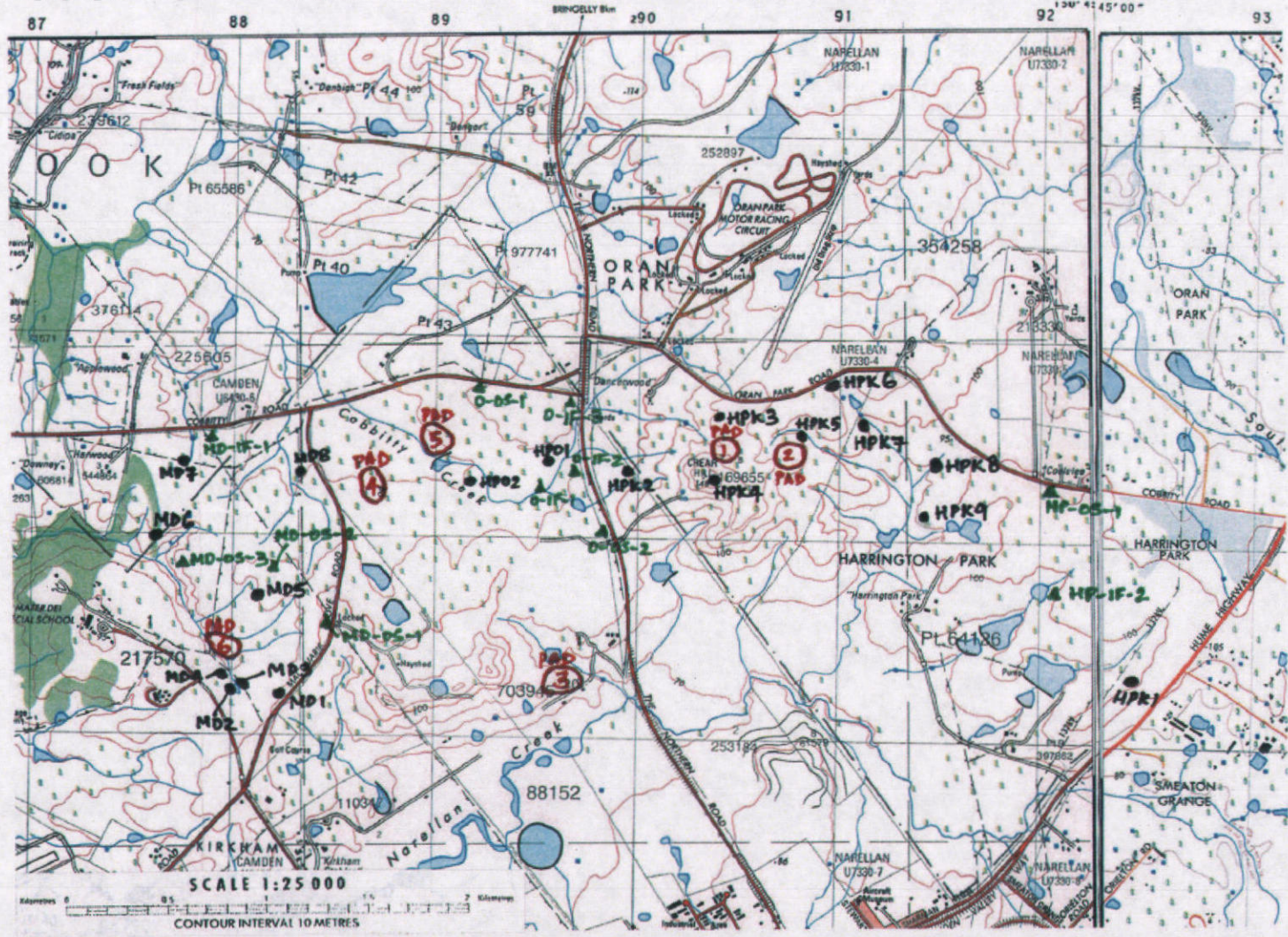


**Plate 2: MD 7 looking north – artefacts were located scattered throughout the area.**



Plate 3: MD 7 sample of artefacts.

Camden Topographic Map 2<sup>nd</sup> Edition (pub 1987) 9029-4-N and Campbelltown Topographic Map 2<sup>nd</sup> Edition (pub 1985) 9029-1-N





# Aboriginal Sites Register of NSW

NPWS, PO Box 1967, Hurstville NSW 2220

## Standard Site Recording Form

New Recording  Additional

Information

SITE IDENTIFICATION					
Site name	MD8		NPWS Site Number	52-2-3351	
Owner/manager	Sisters of the Good Samaritan				
Owner Address					
LOCATION					
Location	Camden, west of Macquarie Grove Rd and south of Cobbity Rd.				
How to get to the site	See attached topographic map				
1:250,000 map name				NPWS map code	
AMG Zone	56	AMG Easting	288331	AMG Northing	6233371
Method for grid reference	Hand-held GPS	Map scale (if method = map)	1:25,000	Map name	Camden 9029-4N (map published in 1987)
NPWS District	Sydney			NPWS Zone	
Portion no.				Parish	
SITE DESCRIPTION					
Site type(s)	Isolated Find			Site type code (NPWS use only)	
Description of site and contents CHECKLIST: eg. length, width, depth, height of site, shelter, deposit, structure, element eg. tree scar, grooves in rock. DEPOSIT: colour, texture, estimated depth, stratigraphy, contents-shell, bone, stone, charcoal, density & distribution of these, stone types, artefact types. ART: area of decorated surface, motifs, colours, wet/dry pigment, engraving technique, no. of figures, sizes, patination. BURIALS: number & condition of bone, position, age, sex, associated artefacts. TREES: number, alive, dead, likely age, scar shape, position, size, patterns, axe marks, regrowth. QUARRIES: rock type, debris, recognisable artefacts, percentage quarried	This site is located in the low lying area in the northeast section of the Mater Dei lands. The artefact was located on a dirt track in an area that had been cleared, and exhibiting dense new growth shrubs. The area appears to be a low alluvial bench associated with the western branch of the upper tributaries to Cobbity Creek. The Silcrete artefact was situated in a moderately disturbed context.				

Version: June 1998

Data entered by:

Date entered:





# Aboriginal Sites Register of NSW

NPWS, PO Box 1967, Hurstville NSW 2220

## Standard Site Recording Form

SITE ENVIRONMENT				
Land form	lower slope/alluvial		Aspect	Slope
Mark position of the site				
Local rock type	Shale, medium grained sandstone, carbonaceous claystone, laminate and minor coal bands.		Land use/effect	Extensive clearing and modification for pastures and grazing.
Distance from drinking water	100m	Source	Tributary of the Nepean River	
Resource zone (eg. estuarine, river, forest)	wetlands	Vegetation	Native grasslands and exotic species.	
Edible plants		Faunal resources (include shellfish)		
Other exploitable resources (eg. ochre)				
Are there other sites in the locality	Yes	Are they in the Sites Register	Yes	Other site types include Open Camp Sites and PADs.
SITE MANAGEMENT				
Site condition	Disturbed		Low-moderate disturbance; low-moderate significance.	
Management recommendations	Report recommends site be conserved.			
Have artefacts been removed from site	No		When	
By whom			Deposited at	
Consent applied for	<input type="checkbox"/>		Consent issued	<input type="checkbox"/>
Date of issue			Consent number	
SITE INSPECTION AND RECORDING				
Reason for investigation	Aboriginal Heritage Assessment (Phase 2 Survey)			
Were local Aborigines contacted or present for the recording	<input type="checkbox"/> Not contacted <input checked="" type="checkbox"/> Contacted and present <input type="checkbox"/> Contacted but not present	Names and addresses	Leanne Hestelow Tharawal LALC PO Box 440 Picton NSW 2571  Glenda Chalker Cubbitch Barta NTCAC 55 Nightingale Rd Pheasants Nest NSW 2574	
Is the site important to local Aborigines				
Verbal/written reference	Harrington Park 2 Mater Dei Rezoning Project Phase 2	ASR report	C-	

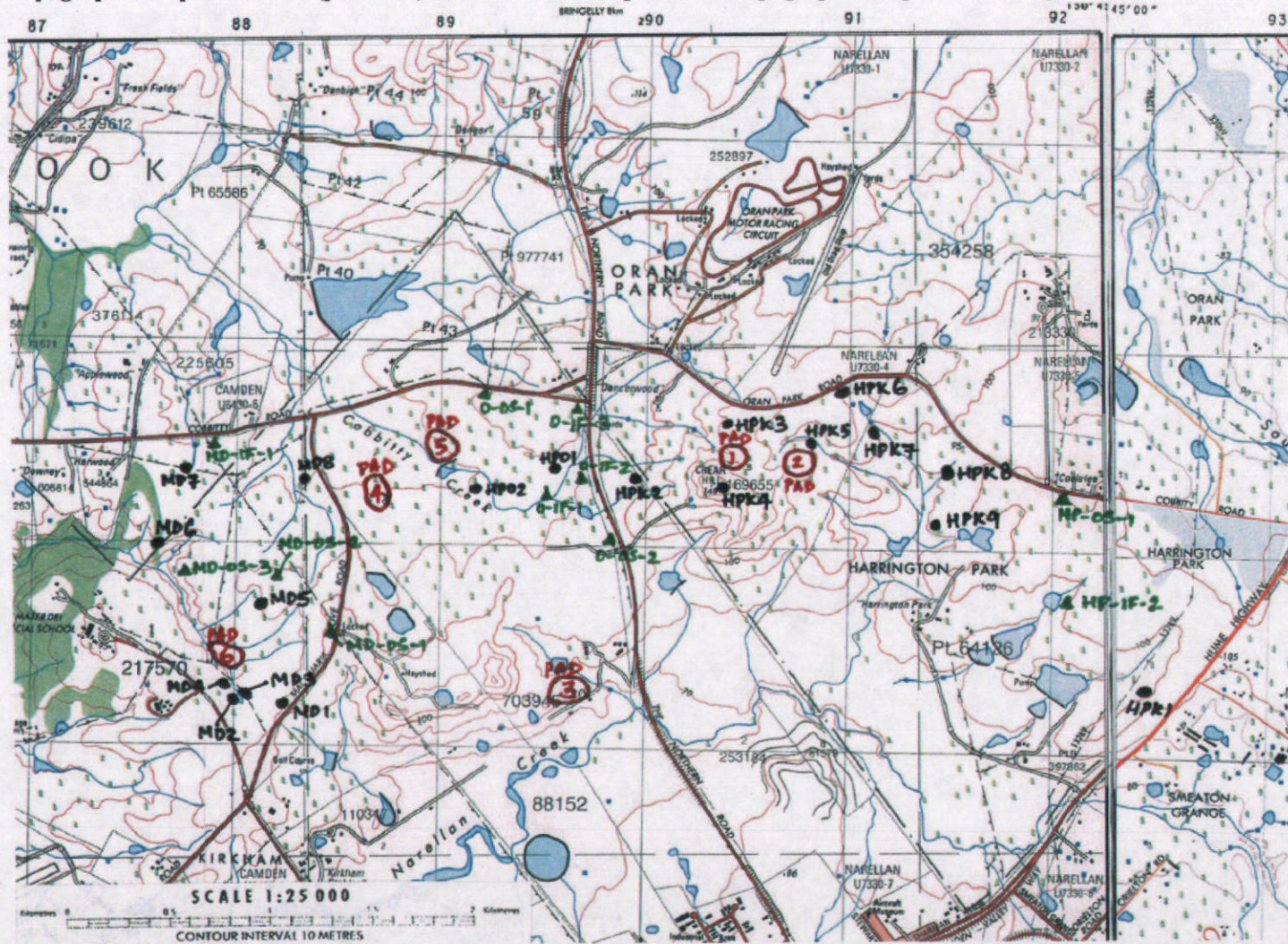


**MD 8 Site Photo**



**Plate 1: MD 8 – flag marks the location of the artefact. (Photo looking south)**

Camden Topographic Map 2<sup>nd</sup> Edition (pub 1987) 9029-4-N and Campbelltown Topographic Map 2<sup>nd</sup> Edition (pub 1985) 9029-1-N





# Aboriginal Sites Register of NSW

NPWS, PO Box 1967, Hurstville NSW 2220

## Standard Site Recording Form

New Recording  Additional

Information

SITE IDENTIFICATION					
Site name	PAD 6			NPWS Site Number	52-2-3352
Owner/manager	Sisters of the Good Samaritan				
Owner Address					
LOCATION					
Location	Camden, west of Macquarie Grove Rd and south of Cobbly Rd.				
How to get to the site	See attached topographic map				
1:250,000 map name				NPWS map code	
AMG Zone	56	AMG Easting	287947	AMG Northing	6232407
Method for grid reference	Hand-held GPS	Map scale (if method = map)	1:25,000	Map name	Camden 9029-4N (map published in 1987)
NPWS District				NPWS Zone	
Portion no.				Parish	
SITE DESCRIPTION					
Site type(s)	PAD			Site type code (NPWS use only)	
Description of site and contents CHECKLIST: eg. length, width, depth, height of site, shelter, deposit, structure, element eg. tree scar, grooves in rock. DEPOSIT: colour, texture, estimated depth, stratigraphy, contents-shell, bone, stone, charcoal, density & distribution of these, stone types, artefact types. ART: area of decorated surface, motifs, colours, wet/dry pigment, engraving technique, no. of figures, sizes, patination. BURIALS: number & condition of bone, position, age, sex, associated artefacts. TREES: number, alive, dead, likely age, scar shape, position, size, patterns, axe marks, regrowth. QUARRIES: rock type, debris, recognisable artefacts, percentage quarried	Located within the Mater Del lands, the Pad is located at the westernmost point of a western reaching spur. The spur terminates at Sickles Creek, a very deep drainage line with steep walls. Large areas of this creek appear to be experiencing heavy erosion. The PAD itself is located along the gently sloping apex of the spur, with heavy grass cover and leaf litter, as well as scattered new growth and mature trees. It is not clear the extent of surface or subsurface disturbance, however it appears to be minimal. This spur is one in a series of spurs running off the main ridgeline running adjacent to Macquarie Grove Road such as the spur with site MD5 located on it.				

Version: June 1998

Data entered by:

Date entered:



# Aboriginal Sites Register of NSW

NPWS, PO Box 1967, Hurstville NSW 2220

## Standard Site Recording Form

SITE ENVIRONMENT					
Land form	ridge/lower slope		Aspect		Slope
Mark position of the site					
Local rock type	Shale, medium grained sandstone, carbonaceous claystone, laminate and minor coal bands.		Land use/effect	Extensive clearing and modification for pastures and grazing.	
Distance from drinking water	within 5m		Source	Tributary of the Nepean River	
Resource zone (eg. estuarine, river, forest)	wooded, near wetlands		Vegetation	Cumberland Plain woodland, native grasslands and exotic species.	
Edible plants			Faunal resources (include shellfish)		
Other exploitable resources (eg. ochre)					
Are there other sites in the locality	Yes	Are they in the Sites Register	Yes	Other site types include	Open Camp Sites and PADs.
SITE MANAGEMENT					
Site condition	Good		Low disturbance; moderate - high significance.		
Management recommendations	Report recommends site be conserved.				
Have artefacts been removed from site	No		When		
By whom			Deposited at		
Consent applied for	<input type="checkbox"/>		Consent issued	<input type="checkbox"/>	
Date of issue			Consent number		
SITE INSPECTION AND RECORDING					
Reason for investigation					
Were local Aborigines contacted or present for the recording	<input type="checkbox"/> Not contacted <input checked="" type="checkbox"/> Contacted and present <input type="checkbox"/> Contacted but not present		Names and addresses	Leanne Hestelow Tharawal LALC PO Box 440 Picton NSW 2571  Glenda Chalker Cubbitch Barta NTCAC 55 Nightingale Rd Pheasants Nest NSW 2574	
Is the site important to local Aborigines					
Verbal/written reference	Harrington Park 2 Mater Del Rezoning Project Phase 2		ASR report	C-	

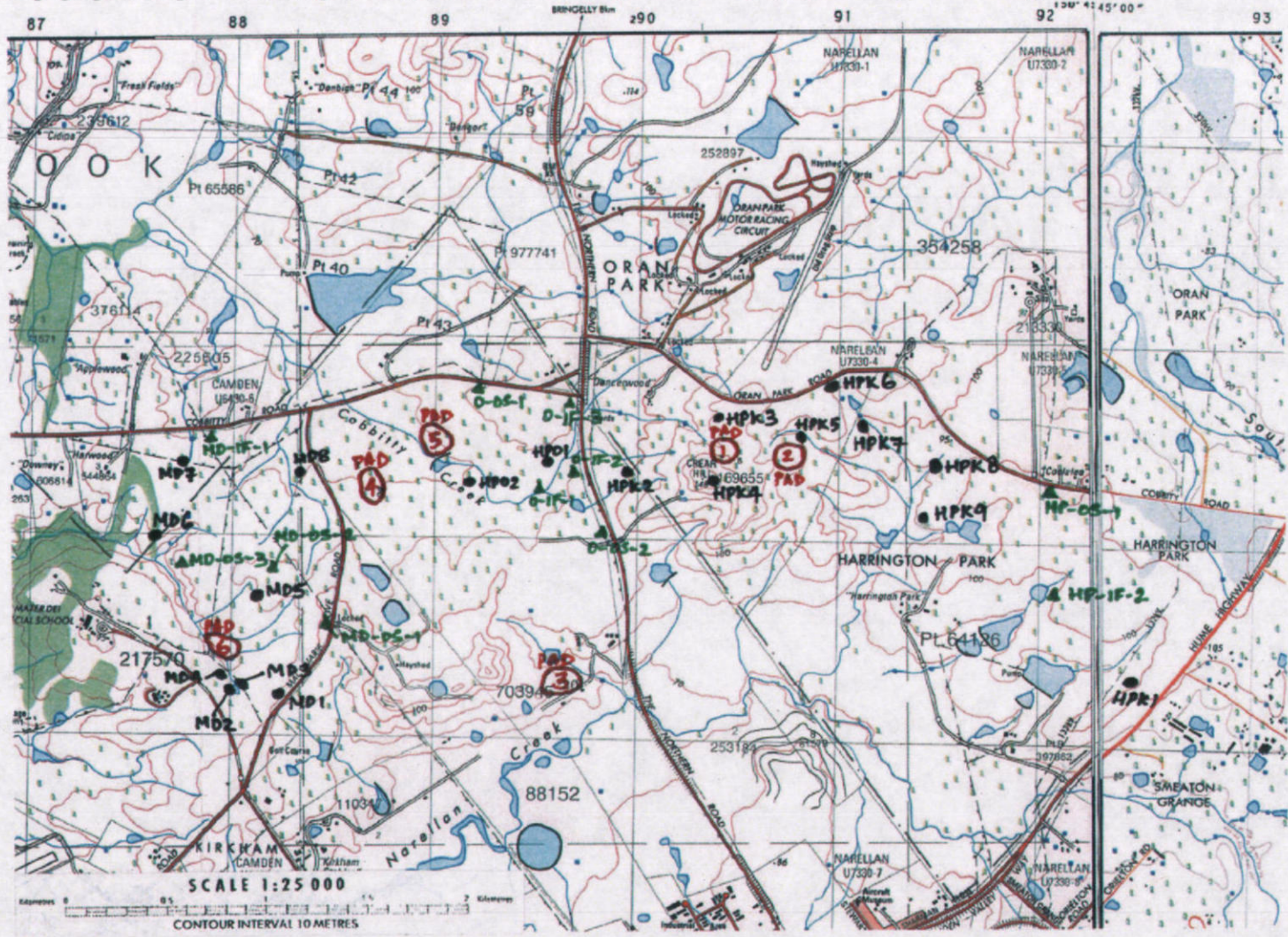
**Site Photos PAD 6: potential archaeological deposit  
Phase 2 Photos:**



**Plate 1: PAD 6 – located on lower spur leading directly into major drainage line at the back of picture.**

Camden Topographic Map 2<sup>nd</sup> Edition (pub 1987) 9029-4-N and Campbelltown Topographic Map 2<sup>nd</sup> Edition (pub 1985) 9029-1-N

N ↑





# Aboriginal Sites Register of NSW

NPWS, PO Box 1967, Hurstville NSW 2220

## Standard Site Recording Form

New Recording  Additional

Information

SITE IDENTIFICATION					
Site name	MD-OS-1			NPWS Site Number	52-2-3353
Owner/manager	Sisters of the Good Samaritan				
Owner Address					
LOCATION					
Location	Camden, west of Macquarie Grove Rd and south of Cobbly Rd.				
How to get to the site	See attached topographic map				
1:250,000 map name				NPWS map code	
AMG Zone	56	AMG Easting	288468	AMG Northing	6232583
Method for grid reference	Hand-held GPS	Map scale (if method = map)	1:25,000	Map name	Camden 9029-4N (map published in 1987)
NPWS District				NPWS Zone	
Portion no.				Parish	
SITE DESCRIPTION					
Site type(s)	Open Campsite			Site type code (NPWS use only)	
Description of site and contents CHECKLIST: eg. length, width, depth, height of site, shelter, deposit, structure, element eg. tree scar, grooves in rock. DEPOSIT: colour, texture, estimated depth, stratigraphy, contents-shell, bone, stone, charcoal, density & distribution of these, stone types, artefact types. ART: area of decorated surface, motifs, colours, wet/dry pigment, engraving technique, no. of figures, sizes, patination. BURIALS: number & condition of bone, position, age, sex, associated artefacts. TREES: number, alive, dead, likely age, scar shape, position, size, patterns, axe marks, regrowth. QUARRIES: rock type, debris, recognisable artefacts, percentage quarried	Artefacts found at this site were located in an area of surface exposure on the upper slope of a low ridgeline running adjacent with Macquarie Grove Road. The area appears moderately disturbed, with introduced gravels evident across the whole area. The scarred trees associated with this site were assessed as being of historic origin, and are most likely be associated with tree lopping. Four artefacts were located in the same area as the Phase 1 survey, however it is not clear whether they are the same as previously identified. The stone axe fragment located in Phase 1 over 100m to the south of this area was not relocated. Artefacts located consisted of Silcrete flakes and flake fragments and one silicified tuff flake.				

Version: June 1998

Data entered by:

Date entered:

JR 31/01/07





# Aboriginal Sites Register of NSW

NPWS, PO Box 1967, Hurstville NSW 2220

## Standard Site Recording Form

SITE ENVIRONMENT					
Land form	ridge/mid-slope		Aspect		Slope
Mark position of the site					
Local rock type	Shale, medium grained sandstone, carbonaceous claystone, laminate and minor coal bands.		Land use/effect	Extensive clearing and modification for pastures and grazing.	
Distance from drinking water	500m		Source	Tributary of the Nepean River	
Resource zone (eg. estuarine, river, forest)	wooded, near wetlands		Vegetation	Cumberland Plain woodland, native grasslands and exotic species.	
Edible plants			Faunal resources (include shellfish)		
Other exploitable resources (eg. ochre)					
Are there other sites in the locality	Yes	Are they in the Sites Register	Yes	Other site types include	Open Camp Sites and PADs.
SITE MANAGEMENT					
Site condition	Very disturbed		Moderate-high disturbance; low-moderate significance.		
Management recommendations	Report recommends section 90.				
Have artefacts been removed from site	No		When		
By whom			Deposited at		
Consent applied for	<input type="checkbox"/>		Consent issued	<input type="checkbox"/>	
Date of issue			Consent number		
SITE INSPECTION AND RECORDING					
Reason for investigation	Aboriginal Heritage Assessment (Phase 2 Survey).				
Were local Aborigines contacted or present for the recording	<input type="checkbox"/> Not contacted <input checked="" type="checkbox"/> Contacted and present <input type="checkbox"/> Contacted but not present	Names and addresses	Leanne Hestelow Tharawal LALC PO Box 440 Picton NSW 2571  Glenda Chalker Cubbitch Barta NTCAC 55 Nightingale Rd Pheasants Nest NSW 2574		
Is the site important to local Aborigines					
Verbal/written reference	Harrington Park 2 Mater Del Rezoning Project Phase 2		ASR report	C-	

**MD-OS-1 Site Photos, Phase 2**



**Plate 1: MD-OS-1 looking south – location of artefacts and scarred trees**



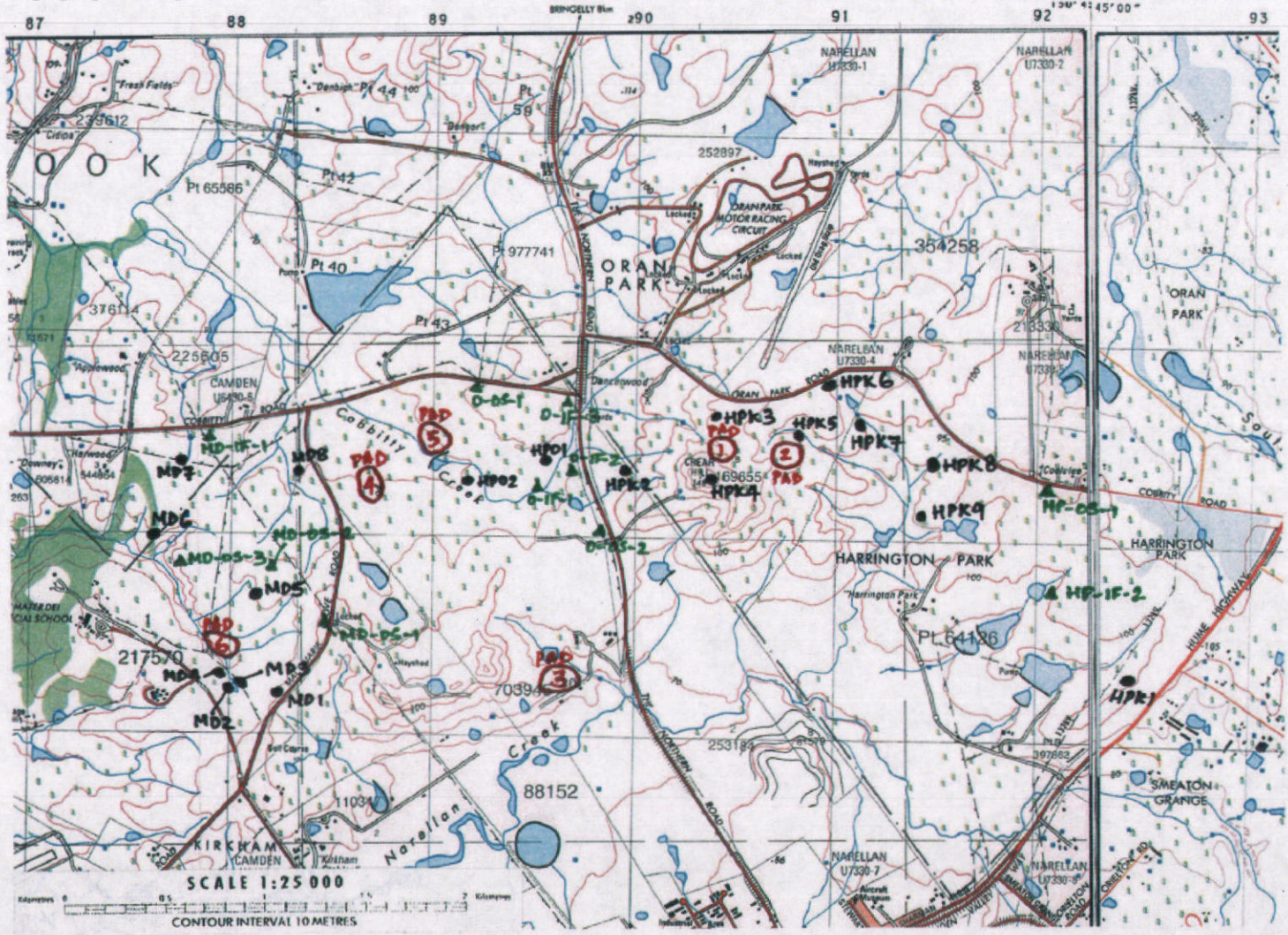
**Plate 2: Artefacts from MD-OS-1**



**Plate 3: Scars associated with tree lopping at MD-OS-1 (site MD\_ST\_1)**

Camden Topographic Map 2<sup>nd</sup> Edition (pub 1987) 9029-4-N and Campbelltown Topographic Map 2<sup>nd</sup> Edition (pub 1985) 9029-1-N

N ↑





# Aboriginal Sites Register of NSW

NPWS, PO Box 1967, Hurstville NSW 2220

## Standard Site Recording Form

New Recording  Additional

Information

SITE IDENTIFICATION					
Site name	MD-IF-1			NPWS Site Number	52-2-3355
Owner/manager	Sisters of the Good Samaritan				
Owner Address					
LOCATION					
Location	Camden, west of Macquarie Grove Rd and south of Cobbity Rd.				
How to get to the site	See attached topographic map				
1:250,000 map name				NPWS map code	
AMG Zone	56	AMG Easting	287860	AMG Northing	6233477
Method for grid reference	Hand-held GPS	Map scale (if method = map)	1:25,000	Map name	Camden 9029-4N (map published in 1987)
NPWS District				NPWS Zone	
Portion no.				Parish	
SITE DESCRIPTION					
Site type(s)	Open Campsite			Site type code (NPWS use only)	
<b>Description of site and contents</b> <b>CHECKLIST:</b> eg. length, width, depth, height of site, shelter, deposit, structure, element eg. tree scar, grooves in rock. <b>DEPOSIT:</b> colour, texture, estimated depth, stratigraphy, contents-shell, bone, stone, charcoal, density & distribution of these, stone types, artefact types. <b>ART:</b> area of decorated surface, motifs, colours, wet/dry pigment, engraving technique, no. of figures, sizes, patination. <b>BURIALS:</b> number & condition of bone, position, age, sex, associated artefacts. <b>TREES:</b> number, alive, dead, likely age, scar shape, position, size, patterns, axe marks, regrowth. <b>QUARRIES:</b> rock type, debris, recognisable artefacts, percentage quarried	The artefact found at this site was located on a dirt track approximately 40m to the south of a gate leading on to Cobbity Road. Only one artefact was identified during the initial assessment, with a further two artefacts located during this assessment. The original artefact was described as an indurated mudstone flake, the two located recently were silicified tuff distal flake fragments. The site category has changed from an isolated find to an open campsite.				

Version: June 1998

Data entered by:

Date entered:



# Aboriginal Sites Register of NSW

NPWS, PO Box 1967, Hurstville NSW 2220

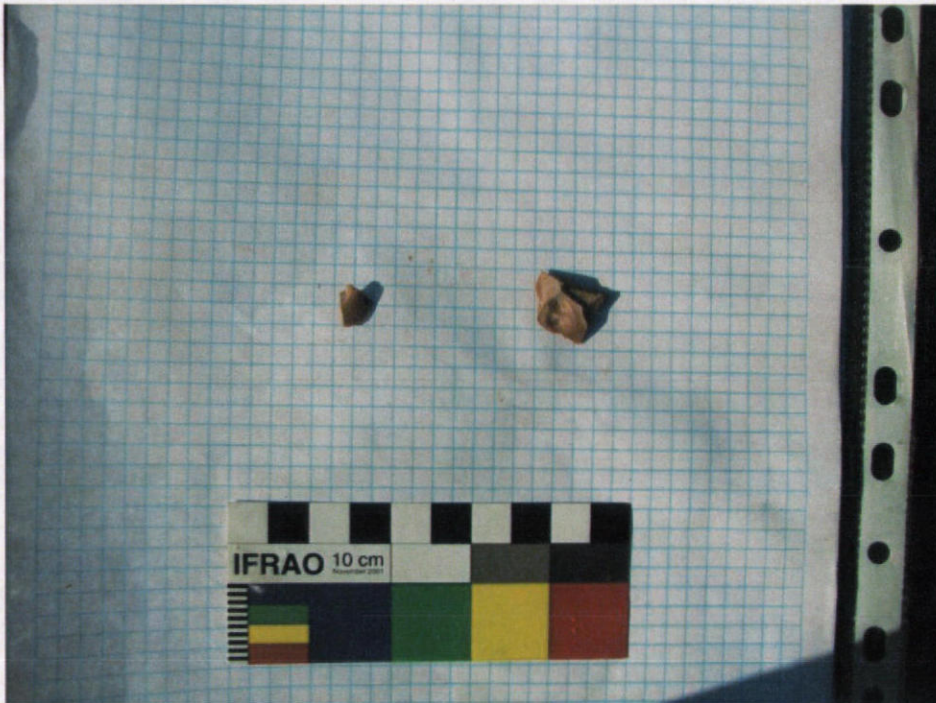
## Standard Site Recording Form

SITE ENVIRONMENT					
Land form	ridge		Aspect		Slope
Mark position of the site					
Local rock type	Shale, medium grained sandstone, carbonaceous claystone, laminate and minor coal bands.		Land use/effact	Extensive clearing and modification for pastures and grazing.	
Distance from drinking water	250m		Source	Tributary of the Nepean River	
Resource zone (eg. estuarine, river, forest)	wetlands		Vegetation	Native grasslands and exotic species.	
Edible plants			Faunal resources (include shellfish)		
Other exploitable resources (eg. ochre)					
Are there other sites in the locality	Yes	Are they in the Sites Register	Yes	Other site types include	Open Camp Sites and PADs.
SITE MANAGEMENT					
Site condition	Very disturbed		Moderate-high disturbance; low-moderate significance.		
Management recommendations	Report recommends site be conserved.				
Have artefacts been removed from site	No		When		
By whom			Deposited at		
Consent applied for	<input type="checkbox"/>		Consent issued	<input type="checkbox"/>	
Date of issue			Consent number		
SITE INSPECTION AND RECORDING					
Reason for investigation	Aboriginal Heritage Assessment (Phase 2 Survey)				
Were local Aborigines contacted or present for the recording	<input type="checkbox"/> Not contacted <input checked="" type="checkbox"/> Contacted and present <input type="checkbox"/> Contacted but not present		Names and addresses	Leanne Hestelow Tharawal LALC PO Box 440 Picton NSW 2571  Glenda Chaiker Cubbitch Barta NTCAC 55 Nightingale Rd Pheasants Nest NSW 2574	
Is the site important to local Aborigines					
Verbal/written reference	Harrington Park 2 Mater Dei Rezoning Project Phase 2		ASR report	C-	

**MD\_IF\_1 Site photos, Phase 2**



**Plate 1: MD-IF-1 – Artefacts found along track. Two more were located within the vicinity of the artefact found previously.**



**Plate 2: Additional artefacts found at MD-IF-1**



# Aboriginal Sites Register of NSW

NPWS, PO Box 1967, Hurstville NSW 2220

## Standard Site Recording Form

New Recording  Additional

Information

SITE IDENTIFICATION					
Site name	MD-ST-1			NPWS Site Number	52-2-3356
Owner/manager	Sisters of the Good Samaritan				
Owner Address					
LOCATION					
Location	Camden, west of Macquarie Grove Rd and south of Cobbity Rd.				
How to get to the site	See attached topographic map. Trees are associated with site MD-OS-1.				
1:250,000 map name				NPWS map code	
AMG Zone	56	AMG Easting	288468	AMG Northing	6232583
Method for grid reference	Hand-held GPS	Map scale (if method = map)	1:25,000	Map name	Camden 9029-4N (map published in 1987)
NPWS District				NPWS Zone	
Portion no.				Parish	
SITE DESCRIPTION					
Site type(s)				Site type code (NPWS use only)	
<p><b>Description of site and contents</b>  <b>CHECKLIST:</b> eg. length, width, depth, height of site, shelter, deposit, structure, element eg. tree scar, grooves in rock.  <b>DEPOSIT:</b> colour, texture, estimated depth, stratigraphy, contents-shell, bone, stone, charcoal, density &amp; distribution of these, stone types, artefact types.  <b>ART:</b> area of decorated surface, motifs, colours, wet/dry pigment, engraving technique, no. of figures, sizes, patination.  <b>BURIALS:</b> number &amp; condition of bone, position, age, sex, associated artefacts.  <b>TREES:</b> number, alive, dead. likely age, scar shape, position, size, patterns, axe marks, regrowth.  <b>QUARRIES:</b> rock type, debris, recognisable artefacts, percentage quarried</p>	<p>Scarred trees relocated and scars assessed as being footholds of European origin related to tree lopping.</p> <p>Attach photographs and sketches, eg. plan &amp; section of shelter.</p>				

Version: June 1998

Data entered by:

Date entered:





# Aboriginal Sites Register of NSW

NPWS, PO Box 1967, Hurstville NSW 2220

## Standard Site Recording Form

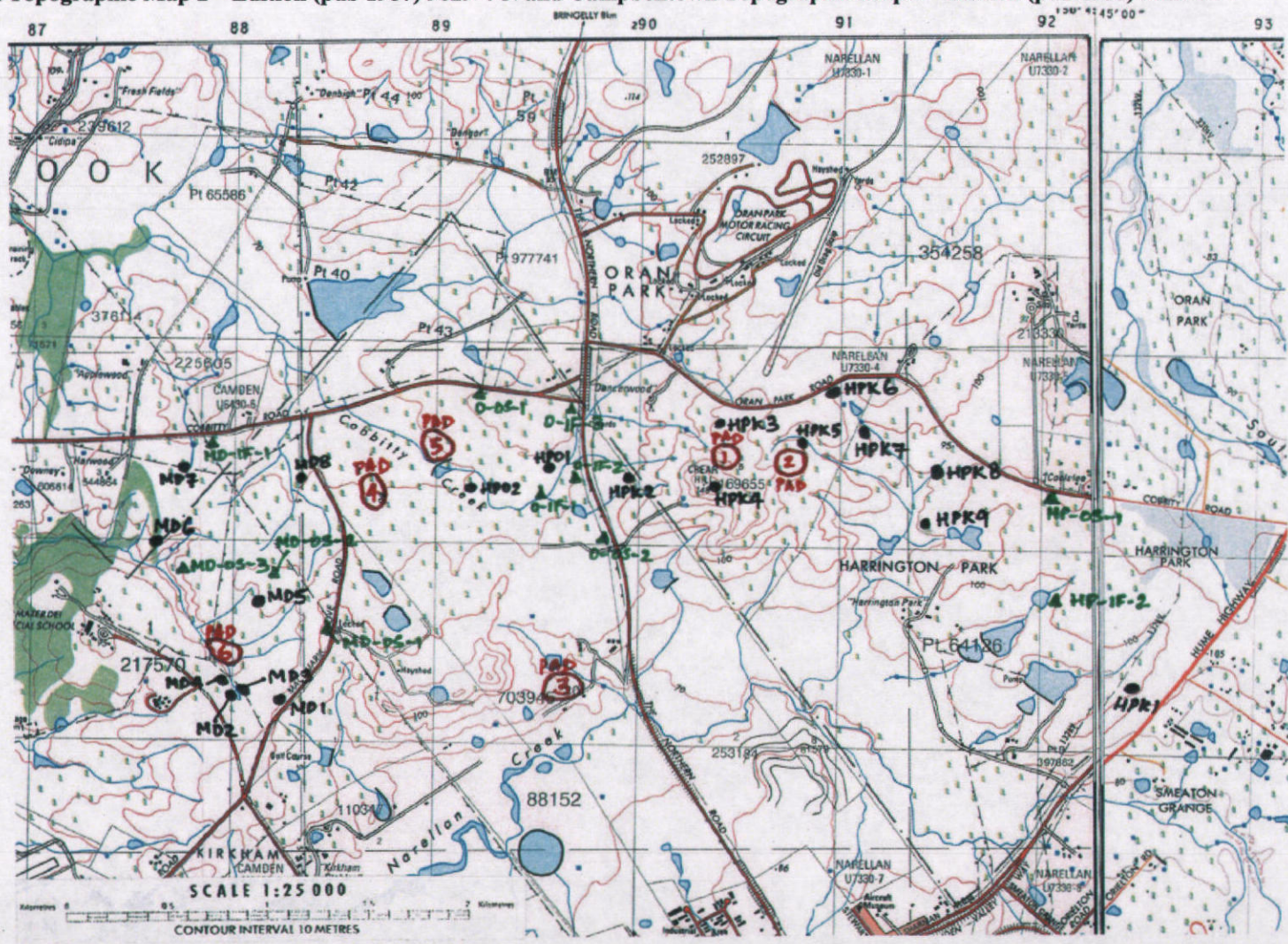
SITE ENVIRONMENT					
Land form			Aspect		Slope
Mark position of the site					
Local rock type			Land use/effect		
Distance from drinking water			Source		
Resource zone (eg. estuarine, river, forest)			Vegetation		
Edible plants			Faunal resources (include shellfish)		
Other exploitable resources (eg. ochre)					
Are there other sites in the locality	Yes	Are they in the Sites Register	Yes	Other site types include	Open Camp Sites and PADs.
SITE MANAGEMENT					
Site condition					
Management recommendations	Not an Aboriginal site, no action recommended.				
Have artefacts been removed from site			When		
By whom			Deposited at		
Consent applied for	<input type="checkbox"/>			Consent issued	<input type="checkbox"/>
Date of issue			Consent number		
SITE INSPECTION AND RECORDING					
Reason for investigation	Aboriginal Heritage Assessment (Phase 2 Survey)				
Were local Aborigines contacted or present for the recording	<input type="checkbox"/> Not contacted <input checked="" type="checkbox"/> Contacted and present <input type="checkbox"/> Contacted but not present	Names and addresses	Leanne Hestelow Tharawal LALC PO Box 440 Picton NSW 2571  Glenda Chalker Cubbitch Barta NTCAC 55 Nightingale Rd Pheasants Nest NSW 2574		
Is the site important to local Aborigines					
Verbal/written reference sources	Harrington Park 2 Mater Del Rezoning Project Phase 2 Indigenous Heritage Assessment and Conservation Strategy		ASR report number(s)	C- C-	

**MD-ST-1 Site Photo**



**Plate 1: Scars re-assessed to be associated with European tree lopping.**

Camden Topographic Map 2<sup>nd</sup> Edition (pub 1987) 9029-4-N and Campbelltown Topographic Map 2<sup>nd</sup> Edition (pub 1985) 9029-1-N



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Camden Topographic Map 2<sup>nd</sup> Edition (pub 1987) 9029-4-N and Campbelltown Topographic Map 2<sup>nd</sup> Edition (pub 1985) 9029-1-N

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