

ABORIGINAL OBJECTS DUE DILIGENCE ASSESSMENT BROOKVALE OVAL

16 OCTOBER 2019
P0012460
FINAL
PREPARED FOR MANLY WARRINGAH SEA EAGLES

URBIS

URBIS STAFF RESPONSIBLE FOR THIS REPORT WERE:

Associate Director	Balazs Hansel Ma Arch, MA Hist
Senior Consultant	Andrew Crisp BA Arch (Hons)
Consultant	Meggan Walker BA Archaeology (Hons) & Ancient History
Project Code	P0012460
Report Number	D001

TABLE OF CONTENTS

Executive Summary	i
1. Introduction	1
1.1. Location and Purpose of this Assessment	1
1.2. Proposed Works	1
1.3. Statutory Background	1
1.3.1. The National Parks and Wildlife Act 1974 (NPW Act)	1
1.4. Authorship	2
1.5. Limitations	2
2. The Due Diligence Process	6
2.1. Overview	6
2.2. Is the Activity a Low Impact Activity for Which There is a Defence in the Regulations?	6
2.3. Step 1 – Will the Activity Disturb the Ground Surface?	6
2.4. Step 2A – Are There Any Relevant Confirmed Site Records or Other Associated Landscape Feature Information on AHIMS?	6
2.5. Step 2B – Are There Any Other Sources of Information of Which a Person is Already Aware?	11
2.5.1. Statutory and Non-Statutory Heritage Registers	11
2.5.2. Soil Landscape and Hydrology	11
2.6. Step 2C – Are There Any Landscape Features That Are Likely to Indicate the Presence of Aboriginal Objects?	16
2.7. Step 3 - Can Harm to Aboriginal Objects Listed on AHIMS or Identified by other sources of information and/or can the carrying out of the activity at the relevant landscape features be avoided?	19
2.8. Step 4 – Does the Desktop Assessment and Visual Inspection Confirm that there are Aboriginal Objects or that they are Likely?	19
3. Conclusions and Recommendations	21
Disclaimer	23

Appendix A Basic and Extensive AHIMS Searches

FIGURES:

Figure 1 – Regional location	3
Figure 2 – Location of the subject area and proposed development	4
Figure 3 – the Generic Due Diligence Process	5
Figure 4 – Location of AHIMS Sites	13
Figure 5 – Location of AHIMS sites and heritage items	14
Figure 6 – Soil Landscapes and Hydrology	15
Figure 7 – historic aerial photographs	18
Figure 8 – Artificial mounding on eastern side of oval	20
Figure 9 – Exposed clay, crushed sandstone and brick in erosion scour on eastern side of mound.	20
Figure 10 – Artificial mounding on eastern side of oval	20
Figure 11 – Mounding and grandstand on western and south side of oval	20
Figure 12 – Terraced modification of landscape to the rear (north) of Brookvale Oval.	20
Figure 13 – Complete modification to south of Brookvale Oval.	20

TABLES:

Table 1 – Summary of AHIMS extensive search (AHIMS Client Service ID: 438896)	7
---	---

Table 2 – Summary of previously carried out archaeological reports8
Table 3 – Results of the analysis of historic aerial images.....16

EXECUTIVE SUMMARY

Urbis has been engaged by Manly Warringah Sea Eagles (MWSE) (the Proponent) to provide an Aboriginal Objects Due Diligence Assessment (DDA) for the proposed development of a Centre of Excellence and new Grandstand at Lot 1-6 DP1141128, Lot 47 DP3674, Lot 1 DP114027, Lot 1 DP784268, Lot 6 DP785409 and Lot B DP966128, Brookvale Oval, Pittwater Road, Brookvale NSW (hereafter referred as the 'subject area').

The subject area covers approximately 5 hectares (ha) and comprises a football field, carpark, grandstand facilities, other structures, landscaped area and perimeter trees. The subject area is located to the south of Federal Parade, west of Pine Avenue, north of Pittwater Road and east of Alfred Road.

The DDA was prepared in accordance to the *Due Diligence Code of Practice for the Protection of Aboriginal Objects in New South Wales* (DECCW, 2010) ('Due Diligence Code'), and included the following:

- Comprehensive background research of the AHIMS register, statutory and non-statutory heritage listings;
- Analysis of landscape features and their potential to retain Aboriginal objects;
- Analysis of historical land use and its impact on the subject area; and
- Preliminary site inspection.

The DDA concluded that:

- There are no registered Aboriginal object and/or archaeological sites located within the subject area;
- The subject area is highly disturbed; and
- Due to the level of past soil disturbance and low sensitivity for Aboriginal objects to exist it is considered unlikely that the proposed works will harm Aboriginal cultural heritage and therefore no further assessment for Aboriginal heritage is recommended.

Based on the above conclusions, the proposed development can proceed with caution in line with the following recommendations:

1. This DDA should be kept providing proof for the Due Diligence Process applied for the subject area;
2. No further archaeological works relating to Aboriginal objects and/or archaeological sites are necessary; and
3. In the unlikely event that suspected human remains are encountered during the demolition of the existing building, all work in the area that may cause further impact, must cease immediately and the following measures must be implemented:
 - The location, including a 20 m curtilage, should be secured using barrier fencing to avoid further harm;
 - The NSW Police must be contacted immediately;
 - Notify OEH's Environment Line on 131 555 as soon as practicable and provide available details of the remains and their location;
 - No further action is to be undertaken until the NSW Police provide written clearance for the identified remains;
 - Should the remains be identified as Aboriginal, the appropriate Local Aboriginal Land Council must be notified; and
 - A suitably qualified archaeologist and/or anthropologist with forensic training must be contacted.

1. INTRODUCTION

1.1. LOCATION AND PURPOSE OF THIS ASSESSMENT

Urbis has been engaged by Manly Warringah Sea Eagles (MWSE) (the proponent) to provide an Aboriginal Objects Due Diligence Assessment (DDA) for the proposed development of a Centre of Excellence and new Grandstand at Lot 1-6 DP1141128, Lot 47 DP3674, Lot 1 DP114027, Lot 1 DP784268, Lot 6 DP785409 and Lot B DP966128, Brookvale Oval, Pittwater Road, Brookvale NSW (hereafter referred as the 'subject area') (Figure 1 and Figure 2). The subject area covers approximately 5 ha and comprises a football field, carpark, grandstand facilities, other structures, landscaped area and perimeter trees. The subject area is located to the south of Federal Parade, west of Pine Avenue, north of Pittwater Road and east of Alfred Road.

This DDA was prepared to investigate whether the proposed development will harm Aboriginal objects that may exist within the subject area. The assessment will follow the generic steps of the *Due Diligence Code of Practice for the Protection of Aboriginal Objects in New South Wales* (DECCW, 2010) ('Due Diligence Code'). The generic due diligence process is shown on Figure 3 below.

1.2. PROPOSED WORKS

The proposed works include the development of a Centre of Excellence and new grandstand facilities at Brookvale Oval. The project aims to:

- Consolidate the Manly Warringah Sea Eagles training and administration bases at one location;
- Provide improved training facilities for all players (from community to elite levels) to develop their skills as well as for professional players to have access to high performance training facilities;
- Provide spectators with additional covered seating that delivers the highest quality viewing and entertainment experience possible at Manly Warringah Sea Eagles home games; and
- Support the operations of the Manly Warringah Sea Eagles and ensure its viability into the future.

The proposed works will involve the construction of new training and grandstand facilities, which will involve impacts to the ground surface.

1.3. STATUTORY BACKGROUND

1.3.1. The National Parks and Wildlife Act 1974 (NPW Act)

The *National Parks and Wildlife Act 1974* (NSW) (the NPW Act) is the primary piece of legislation for the protection of Aboriginal cultural heritage in New South Wales (NSW). The Climate Change & Sustainability Division of the Department of Planning, Industry & the Environment (DPIE) (formerly the Office of Environment and Heritage) administers the NPW Act. The NPW Act provides statutory protection for Aboriginal objects by making it illegal to harm Aboriginal objects and Aboriginal places, and by providing two tiers of offence against which individuals or corporations who harm Aboriginal objects or Aboriginal places can be prosecuted. The NPW Act defines Aboriginal objects and Aboriginal places:

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

Aboriginal place means any place declared to be an Aboriginal place under section 84. The highest tier offences are reserved for knowledgeable harm of Aboriginal objects or knowledgeable desecration of Aboriginal places. Second tier offences are strict liability offences - that is, offences regardless of whether or not the offender knows they are harming an Aboriginal object or desecrating an Aboriginal place - against which defences may be established under the *National Parks and Wildlife Regulation 2009* (NSW) (the NPW Regulation).

Section 87 (1), (2) and (4) of the NPW Act establishes defences against prosecution under s.86. The defences are as follows:

- An AHIP authorised the harm (s.87(1))
- Due diligence was exercised to establish Aboriginal objects will not be harmed (s.87(2))

Due diligence may be achieved by compliance with requirements set out in the NPW Regulation or a code of practice adopted or prescribed by the NPW Regulation (s.87(3))

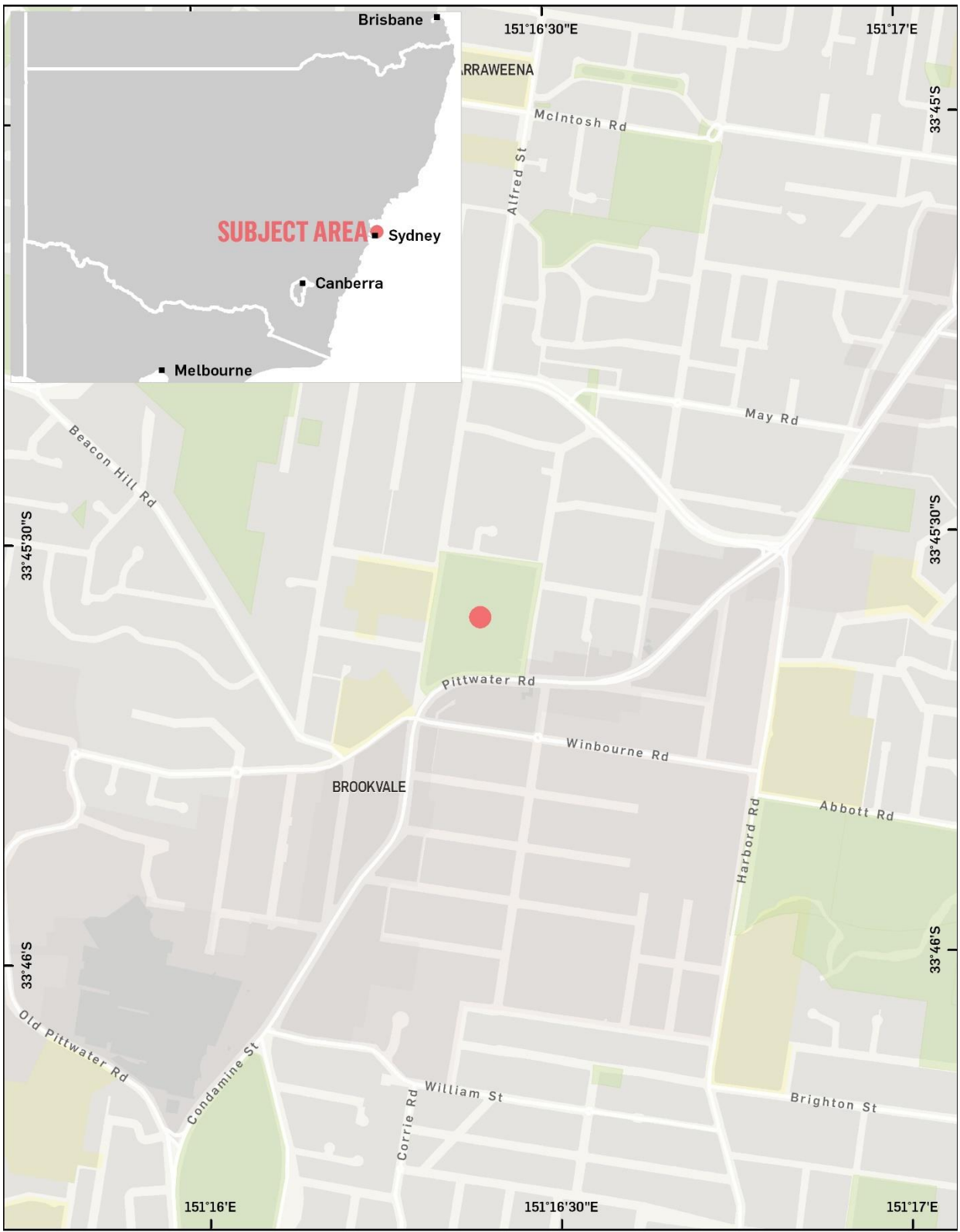
This DDA follows the Due Diligence Code and aims to establish whether Aboriginal objects would be harmed by the proposed redevelopment of the Study Area under s.87(2) of the NPW Act.

1.4. AUTHORSHIP

This DDA was prepared by Meggan Walker (Consultant Archaeologist) and Andrew Crisp (Senior Consultant, Archaeologist) and reviewed by Balazs Hansel (Associate Director, Archaeologist).

1.5. LIMITATIONS

This DDA has been limited in part by the high levels of disturbance within the subject area, resulting from historic land use, which reduced the ground surface visibility to nil except in areas of exposure.



GDA 1994 MGA Zone 56

© 2019. PSMA Australia Ltd, HERE Pty Ltd, ABS. Produced by Urbis Pty Ltd ABN 50 105 256 228, Aug 2019



Project No - P0012460
 Project Manager - Balazs Hansel
 ● Subject Area

REGIONAL LOCATION
 Brookvale Oval
 MWSE

Figure 1 – Regional location



GDA 1994 MGA Zone 56

© 2019, PSMA Australia Ltd, HERE Pty Ltd, ABS. Produced by Urbis Pty Ltd ABN 50 105 256 228, Aug 2019



Project No - P0012460
Project Manager - Balazs Hansel

LOCATION OF THE SUBJECT AREA AND PROPOSED DEVELOPMENT

Brookvale Oval
MWSE

▭ Subject Area
 Lot Boundaries
 ▭ Hydrology
 — Contours

Figure 2 – Location of the subject area and proposed development

8 The generic due diligence process

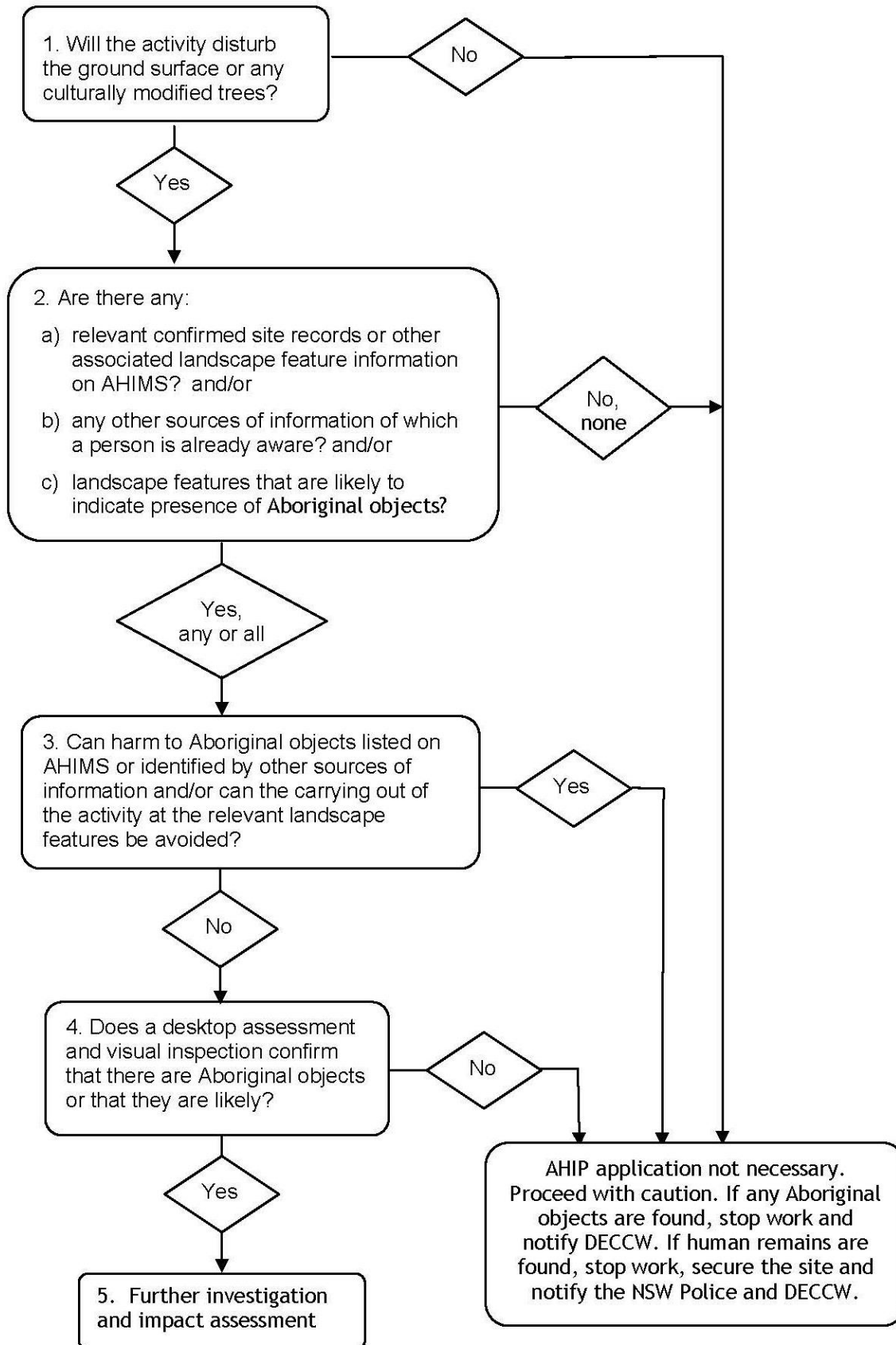


Figure 3 – the Generic Due Diligence Process

2. THE DUE DILIGENCE PROCESS

2.1. OVERVIEW

The NPW Act provides statutory protection for Aboriginal objects and places in NSW.

Section 87 (2) of Part 6 of the NPW Act provides that a person who exercises 'due diligence' in determining that their actions will not harm Aboriginal objects has a defence against prosecution for the strict liability offence, outlined by Section 86 of Part 6 of the NPW Act, if they later unknowingly harm an object without an Aboriginal Heritage Impact Permit (AHIP).

The Due Diligence Code (DECCW, 2010) was developed to help individuals and/or organisations to establish whether certain activities have the potential to harm Aboriginal objects within a given proposed activity footprint. Following the generic due diligence process (Figure 3), which is adopted by the NPW Regulation would be regarded as 'due diligence' and consequently would provide a defence under the NPW Act.

The due diligence process outlines a set of practicable steps for individuals and organisations in order to:

1. Identify whether or not Aboriginal objects are, or likely to be present in an area.
2. Determine whether or not their activities are likely to harm Aboriginal objects (if present).
3. Determine whether an AHIP application is required to carry out the harm.

This assessment follows through the steps of the due diligence process and provides clear and concise answers, and where necessary detailed description to every aspect of the due diligence code to ensure the compliance of the proposed development and assessment of any Aboriginal heritage constraints.

2.2. IS THE ACTIVITY A LOW IMPACT ACTIVITY FOR WHICH THERE IS A DEFENCE IN THE REGULATIONS?

No.

The proposed activity is not listed amongst the activities that provide defence under Clause 80B, Part 8A of the NPW Regulation. The proposed activity will include the demolition of existing structures, the construction of the new facilities and as such it is not defined as low-impact activity under the NPW Regulation.

2.3. STEP 1 – WILL THE ACTIVITY DISTURB THE GROUND SURFACE?

Yes.

The proposed activity will disturb the ground surface through the demolition of old structures and the construction of new grandstand and training facilities.

2.4. STEP 2A – ARE THERE ANY RELEVANT CONFIRMED SITE RECORDS OR OTHER ASSOCIATED LANDSCAPE FEATURE INFORMATION ON AHIMS?

No.

The search of the Aboriginal Heritage Information Management System (AHIMS) was carried out on the 1st August 2019 (AHIMS Client Service ID: 438896) for an area of 3 kilometre (km) by 3 km.

Altogether 88 Aboriginal sites were identified by the AHIMS search. Two of these were subsequently identified as duplicates, bringing the total number included in the below analysis to 86.

The search found no registered Aboriginal objects and/or places within or in close proximity to the subject area. (Figure 4 and Figure 5). The closest registered Aboriginal objects and/or places are ASHIMS ID#45-6-2975 (approx. 470m west) and AHIMS ID#45-6-0700 (approx. 600m west). AHIMS ID#45-6-2975 is a rock shelter with art. AHIMS ID#45-6-0700 is a rock engraving.

Summary of the AHIMS extensive search result is provided in Table 1 below and the original extensive search results can be seen in Appendix 1.

Table 1 – Summary of AHIMS extensive search (AHIMS Client Service ID: 438896)

Site Type	Context	Total	Percentage
Rock Engraving	Open	56	65%
Shelter with PAD	Closed	6	7%
Shelter with Midden	Closed	5	6%
Shelter with Art	Closed	4	5%
Axe Grinding Groove	Open	2	2%
Shelter with Art and PAD	Closed	2	2%
Shelter with Midden and Artefact	Closed	2	2%
Isolated find	Open	1	1%
Midden	Open	1	1%
Rock Engraving and water hole	Open	1	1%
Shelter with Art and Grinding Groove	Closed	1	1%
Shelter with Art and water holes	Closed	1	1%
Shelter with Artefact	Closed	1	1%
Shelter with Artefact	Closed	1	1%
Shelter with Engraving, Midden and artefact	Closed	1	1%
Shelter with Midden and Burial	Closed	1	1%
Grand Total	N/A	86	100%

Open sites comprised 71% (n=61) of search results, with closed sites comprising 29% (n=25). Sites which occur on sandstone – including grinding grooves, engravings and shelters – comprised 98% (n=84) of the results, which reflects the abundance of 'Hawkesbury Sandstone in the region, specifically in proximity to the coastline. Stone artefacts comprised 7% (n=6), with the dominant materials types including silcrete and mudstone. The low frequency of stone artefacts in the search results is presumably related to the high level of disturbance within the region which pre-dates the AHIMS register.

The search results suggest that Aboriginal objects and/or places are most likely to occur upon sandstone, in the form of engravings, grinding grooves and shelters. Given the absence of sandstone outcrops within the subject area, these site types are unlikely to occur.

It should be noted that the AHIMS register does not represent a comprehensive list of all Aboriginal objects or sites in a specified area as it lists recorded sites only identified during previous archaeological survey effort. The bias can be various as some areas have been the subject to more intensive archaeological investigation while some parts of the landscape have not even been surveyed to any degrees and consequently the results in the AHIMS can be patchy and incomplete. Most of the registered sites have been

identified through targeted, pre-development surveys with the restrictions on extent and scope of those developments.

Previous archaeological investigations also provide invaluable information on the spatial distribution, nature and extent of archaeological resources in a given area. There have been numerous archaeological investigations carried out in the Northern Beaches during the last 30 years. A few of these reports have been sourced from the AHIMS register. A summary of findings of these reports that are relevant to the subject area is provided in Table 2 below.

Table 2 – Summary of previously carried out archaeological reports

Year/Author/Title	Summary of Report	Relevance to the subject area
Haglund, 1982. Report on Survey for Archaeological Relics on the Wakehurst Parkway Route, Frenchs Forest, Sydney, NSW.	Archaeological assessment involving survey at Frenchs Forest, approx. 3.6km west of the current subject area. A number of small rock overhangs were identified as possible shelters and further assessment was recommended.	<ul style="list-style-type: none"> • Suggests sites are unlikely in marshy areas except in the form of scarred trees
Mary Dallas, 1983. An Archaeological Survey of the Wakehurst Gold and Recreation Club in the Manly Warringah War Memorial Park.	Archaeological assessment involving survey, approx. 2.8km south west of the current subject area. Five sites were already known to occur within the area and a further three sites were located during the survey. These included two rock shelters with art and a potential occupation site	<ul style="list-style-type: none"> • Sites occurring on sandstone are common in the region
Brayshaw & Associates, 1984. Archaeological Survey of Proposed Freeway Extension Wahroonga – Berowra	Archaeological assessment involving survey. This study resulted in the identification on five previously unidentified sites, as well as fourteen potential habitation shelters, three of which contained PAD	<ul style="list-style-type: none"> • Sites occurring on sandstone are common in the region • Disturbance effects the potential for Aboriginal objects and/or sites to be identified • Shelter sites were found within 200m of permanent or semi-permanent creeks • Open artefact scatters were located on flat ridges • Grinding grooves were located on large rock platforms associated with waterfalls

Year/Author/Title	Summary of Report	Relevance to the subject area
Byrne, D. 1986. Proposed Warringah Park Business Centre, Beacon Hill: Survey for Archaeological Sites and Report on Aboriginal Rock Engraving.	<p>Archaeological assessment involving survey, approx. 2.2km west of the current subject area.</p> <p>Resulted in the identification of two rock engravings.</p>	<ul style="list-style-type: none"> • Acknowledged that engraving sites and axe-grinding grooves occur in association with suitable exposures of sandstone.
Brayshaw McDonald, 1987. Archaeological Survey of Bicentennial Coastal Walkway, Queenscliff-Palm Beach.	<p>Archaeological assessment involving survey, which resulted in the identification of five previously unrecorded archaeological sites. These were all middens, two which occurred in rock shelters. All of the identified sites had already been impacted by existing development. All sites were located on or above tidal rock platforms or beaches, below the tops of the cliff lines which the route follows.</p>	<ul style="list-style-type: none"> • Sites may occur in areas where previous development has taken place, and likely have been impacted as a result. • Sites can be anticipated in close proximity to the coastline, above beaches and tidal rock platforms.
Mary Dallas Consulting Archaeologist, 1988. Archaeological Survey of Portion 927 Willandra Road, Beacon Hill, NSW.	<p>Archaeological assessment involving survey approximately 1.5km north west of the current subject area. Resulted in the identification of no new sites, although a previously recorded rock engraving was inspected.</p>	<ul style="list-style-type: none"> • Located in close proximity to current subject area. • The presence of sandstone surfaces does not necessarily mean the presence of archaeological sites.
Haglund, L. 1991. Archaeological Investigations at Cromer NSW: Test Excavation of two Shelters in Lot 2, Maybrook Av.	<p>Archaeological assessment involving test excavation of two shelters, approximately 2.5km north west of the current subject area.</p> <p>The low-density of artefactual materials obtained from the rather large shelter AHIMS ID#45-6-1493 suggests that it was not intensively occupied in the past. Haglund suggests that if this shelter, which is highly suitable for occupation, bares little evidence of intense occupation then smaller, less accessible shelters nearby are unlikely to have been utilised at all.</p>	<ul style="list-style-type: none"> • Sandstone overhangs were not necessarily utilised as shelters and generally the presence of other identifiable artefactual materials/evidence is required to determine a potential shelter as having been utilised by Aboriginal people.
Edgar, J. 1998. Survey for Aboriginal Archaeological Sites at	<p>Archaeological assessment involving survey at Belrose, approximately</p>	<ul style="list-style-type: none"> • Areas of high disturbance have low

Year/Author/Title	Summary of Report	Relevance to the subject area
Lot 906 Narabang Way, Austlink Park, Belrose.	<p>7.8km north west of the current subject area.</p> <p>Resulted in the identification of no Aboriginal archaeological sites. Disturbance was noted to be high and ground surface visibility was noted to be low.</p>	archaeological potential.
Oliver Brown Consulting Archaeology, 2011.28 Rodborough Road, Frenchs Forest, Due Diligence Aboriginal Heritage Impact Assessment.	<p>Archaeological assessment involving survey, approximately 2.2km west of the current subject area.</p> <p>Noted that rock engravings were known to occur in the property but had potentially been impacted by development. Beneath the structure the rock engraving remained intact, with the structure providing protection for the engraving</p>	<ul style="list-style-type: none"> Disturbance from development does not necessarily mean all sites will be destroyed, with sites surviving in disturbed contexts.
ELA, 2018. Aboriginal Archaeological Due Diligence – 53 Little Willandra Road, Oxford Falls.	<p>Archaeological assessment involving survey, approx. 1.9km north west of the current subject area. No Aboriginal objects, culturally modified trees or areas of PAD were identified.</p> <p>An inspection of the sandstone ledges and outcrops within the western portion of the study area resulted in the identification of one previously unregistered site, rock shelter site 'Oxford Falls – RS1' (AHIMS ID# 45-5-3579).</p>	<ul style="list-style-type: none"> In proximity to the subject area. Sites which occur on sandstone are common within the region. Sandstone ledges and outcrops have the potential to contain Aboriginal sites.

The conclusions from the summary of the AHIMS results and previous reports are the following:

- No Aboriginal objects and/or places are located within or in close proximity to the subject area.
- Archaeological sites can be anticipated to occur in close proximity to waterways.
- Areas of high disturbance can be anticipated to have low archaeological potential.
- Archaeological sites occur in the highest frequency upon sandstone outcrops in the region, and so the presence of sandstone may indicate higher archaeological potential.
- The spatial distribution of sites is closely related to the sandstone geology of the area.

The subject area is considered unlikely to contain any Aboriginal objects and or/sites given the distance from waterways, high level of disturbance and absence of sandstone outcrops.

2.5. STEP 2B – ARE THERE ANY OTHER SOURCES OF INFORMATION OF WHICH A PERSON IS ALREADY AWARE?

2.5.1. Statutory and non-statutory heritage registers

2.5.1.1. The Warringah Local Environment Plan 2011

The Warringah Local Environment Plan (LEP) 2011 Schedule 5 provides information on items of local heritage significance and outlines consent requirements for undertaking activities within identified areas of significance.

A search of the Warringah LEP 2011 Schedule 5 was undertaken on 1st August 2019. This search identified one item within the subject area. This is the Brush Box and Camphor Laurel Trees surrounding the park (I132), which were planted on Arbour Day in 1919.

2.5.1.2. Warringah Development Control Plan (DCP) 2000

A review of the Warringah Development Control Plan (DCP) 2000 was completed on 1st August 2019. No controls relating to Aboriginal heritage were identified.

2.5.1.3. NSW State Heritage Register (SHR)

The State Heritage Register (SHR) lists items that have been assessed as being of State heritage significance to New South Wales. Items appearing on the SHR are granted protection under s.60 of the *Heritage Act 1977* (Heritage Act).

A search of the SHR was completed on 1st August 2019. No items were identified within or adjacent to the subject area.

2.5.1.4. State Government Agency Conservation (s.170) Registers

Section 170 of the Heritage Act requires that State Government Agencies establish and maintain a Heritage Conservation Register for heritage items located on land under their control or ownership. Items listed on the s.170 Register are listed on the State Heritage Inventory (SHI) and bound by the regulations of the Heritage Act.

A search of the SHI was completed on 1st August 2019. No items were identified within or adjacent to the subject area.

2.5.1.5. Australian Heritage Database

The Australian Heritage Database contains information about more than 20,000 natural, historic and Indigenous places including: places in the World Heritage List, Places in the National Heritage List, places in the Commonwealth Heritage list; and places in the Register of the National Estate (RNE) (non-statutory). The list also includes places under consideration, or that may have been considered for any one of these lists.

A search of the Australian Heritage Database was carried out on 1st August 2019. No items were identified within or adjacent to the subject area.

2.5.2. Soil landscape and hydrology

The subject area sits within the Sydney Basin bioregion. There are two soil landscapes identified within the subject area. These are Disturbed Terrain and the Hawkesbury soil landscapes.

Disturbed Terrain occurs across the metropolitan Sydney region and the landscape is described as previously being swamps estuaries and wetlands and cut and fill areas. The geology of this soil landscape is described as being artificial fill, including dredged estuarine sand and mud, demolition rubble and industrial/household waste, with small amounts of rocks and local soil materials. This soil landscape is characterised by human disturbance, with complete clearance of natural vegetation and removal of natural soils. Soils are described as turfed fill areas commonly capped with up to 40 cm of sandy loam or up to 60cm of compacted clay over fill or waste materials, with predominant soil materials including loose black sandy loam, compacted mottled clay, variable transported fill and dark dredged muds and sands. This soil landscape has low archaeological potential given the extent of disturbance and the removal of natural soils

profiles which may contain artefactual deposits. The Disturbed Terrain Soil Landscape extends across the majority of the subject area.

The Hawkesbury Soil Landscape is a colluvial soil landscape which is typified by rugged, rolling to steep hills on Hawkesbury Sandstone. Soils are described as shallow (<50cm), discontinuous lithosols/siliceous sands associated with rock outcrop; earthy sands, yellow earths and some locally deep sands on inside of benches and along joints and fractures; localised yellow and red podzolic soils associated with shale lenses; and siliceous sands and secondary yellow earths along drainage lines. Dominant soil materials include loose, coarse quartz sand; earthy, yellowish brown sandy clay loam; pale strongly pedal light clay; surface litter and white loose sands. This soil landscape exists only in the northernmost part of the subject area, in Brookvale Northern Park, presumably due to the higher level of disturbance in the southern sports ground. However, disturbance in Brookvale Northern Park is also high. This is due to the landscaping and installation of a carpark, playground and structures as well as the amphitheatre seating which is set down below the natural soil profile. It is unlikely that soils even in this portion of the subject area will remain intact (see Figure 6).

The subject area is not in close proximity to any watercourses. The landscape has been subject to high levels of modification since European colonisation, with streams that once were present being filled and removed for developments to occur in their place. Greendale Creek is approximately 242 m to the south east of the subject area, and while once a more permanent creek, it is now little more than a drainage line extending through industrial and residential properties. Brookvale Creek is approximately 784 m to the south west of the subject area and remains mostly unmodified.

The spatial and stratigraphical integrity of natural soils is relevant to the potential for archaeological materials to be present. Within the subject area, disturbance levels are high. Historic aerial images show that, since the early 1940s, the subject area has been used as a sporting oval, which will have involved the levelling of soils and importation of fill for the growth of grass (see Figure 6). The resulting effect is that there is unlikely to be any intact remnant natural soils within the subject area, and thus the archaeological potential of the subject area is determined to be low.



GDA 1994 MGA Zone 56

© 2019. PSMA Australia Ltd, HERE Pty Ltd. ABS. Produced by Urbis Pty Ltd ABN 50 105 256 228, Aug 2019



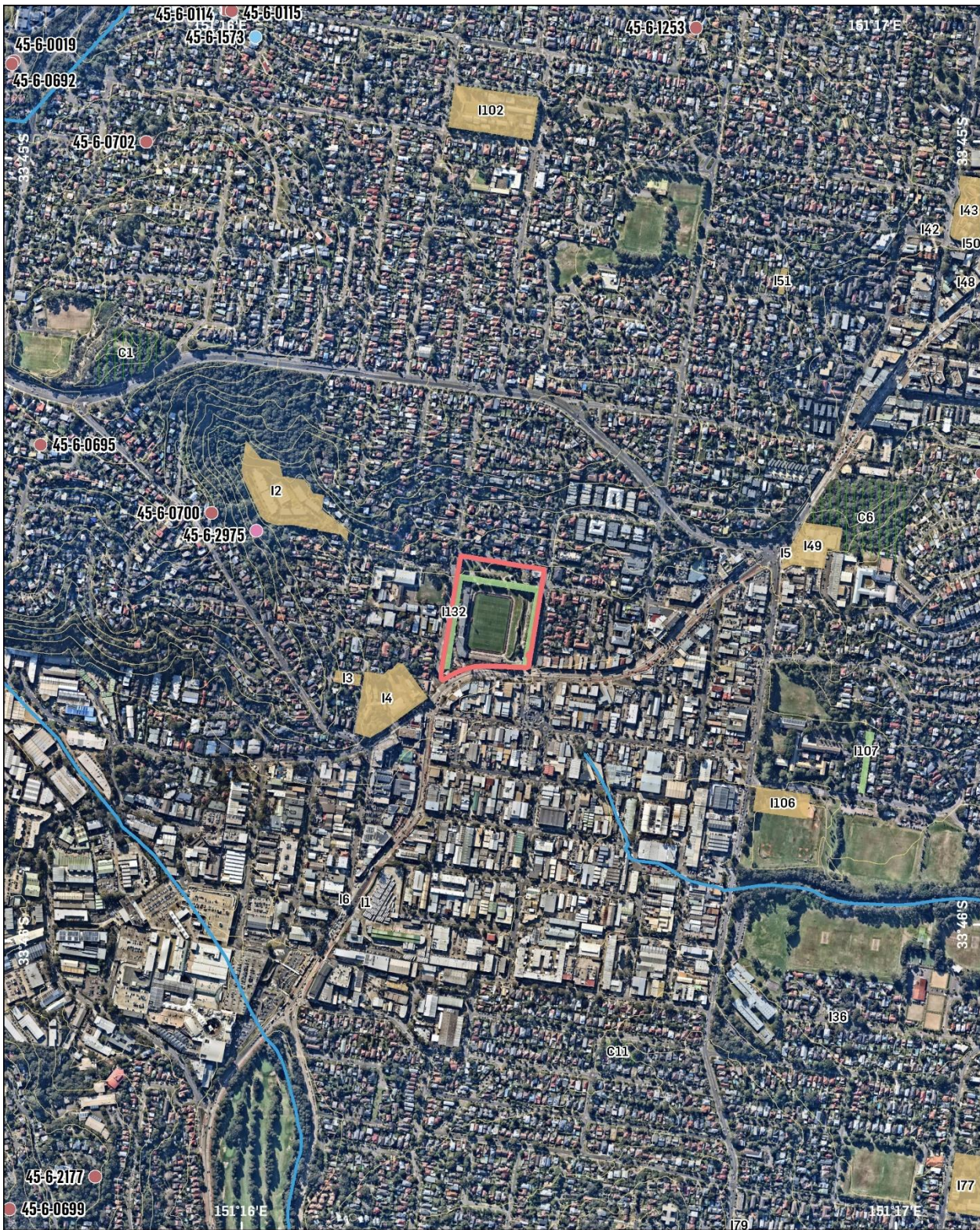
LOCATION OF AHIMS SITES
Brookvale Oval
MWSE

Project No - P0012460

Project Manager - Balazs Hansel

- Subject Area
- Contours
- Hydrology
- Rock Engraving
- Shelter with Art
- Shelter with Engraving, Midden and artefact

Figure 4 – Location of AHIMS Sites



GDA 1994 MGA Zone 56

© 2019. PSMA Australia Ltd, HERE Pty Ltd. ABS. Produced by Urbis Pty Ltd ABN 50 105 256 228, Aug 2019



LOCATION OF AHIMS SITES AND HERITAGE ITEMS

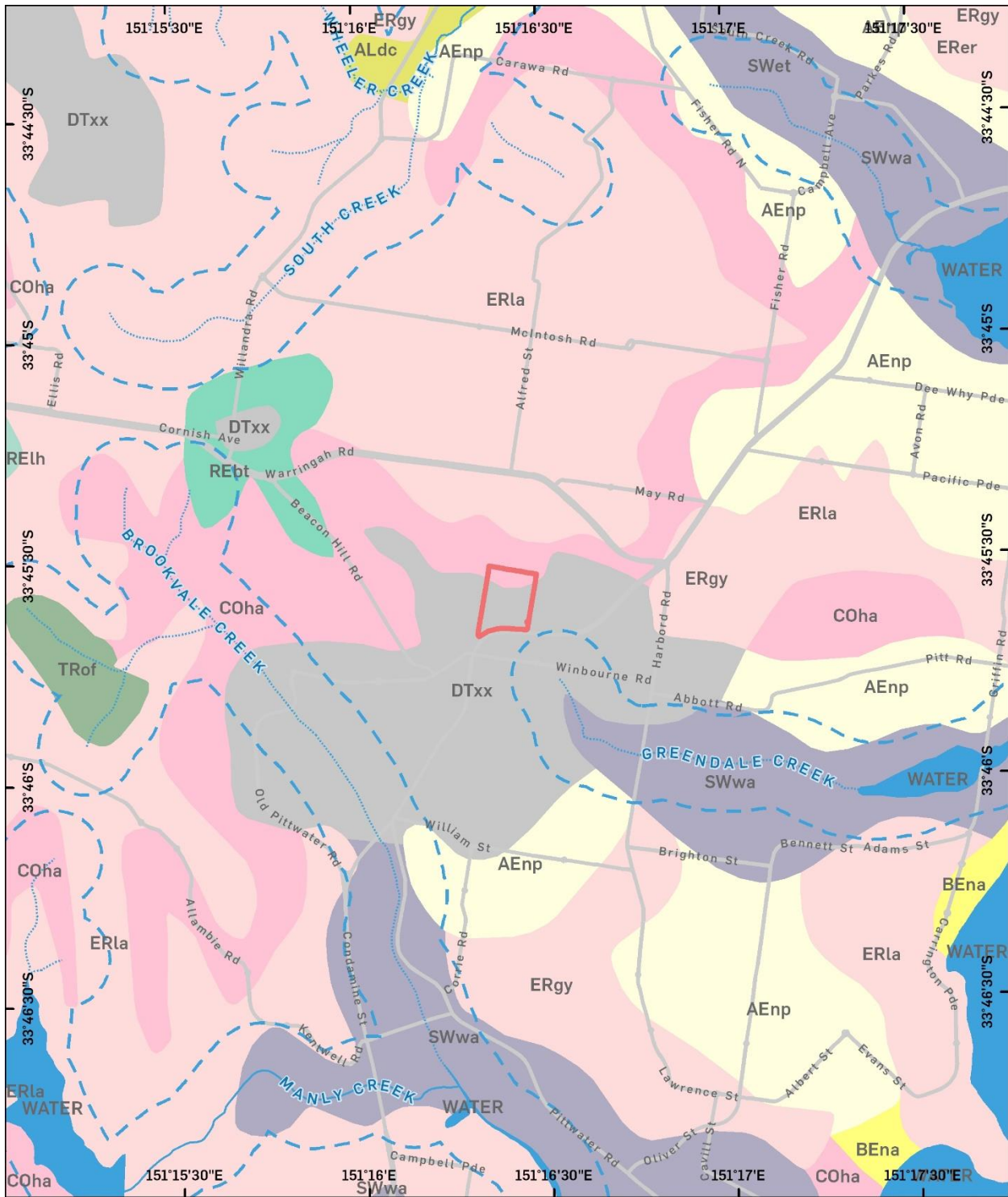
Brookvale Oval
MWSE

Project No - P0012460

Project Manager - Balazs Hansel

- Subject Area
- Hydrology
- Conservation Area - Landscape
- Rock Engraving
- Shelter with Engraving, Midden and artefact
- Contours
- Item - General
- Item - Landscape
- Shelter with Art

Figure 5 – Location of AHIMS sites and heritage items



GDA 1994 MGA Zone 56

© 2019, PSMA Australia Ltd, HERE Pty Ltd, ABS. Produced by Urbis Pty Ltd ABN 50 105 256 228, Aug 2019



Project No - P0012460
Project Manager - Balazs Hansel

SOIL LANDSCAPES AND HYDROLOGY Brookvale Oval MWSE

- | | | | | |
|-----------------------|--------------------|--------------------------|------------------|--------------------|
| Subject Area | Permanent Waterway | Colluvial (COha) | Erosional (ERla) | Swamp (SWwa) |
| Contours | Aeolian (AEnp) | Disturbed Terrain (DTxx) | Residual (REbt) | Transferral (TRof) |
| Hydrology 200m Buffer | Alluvial (ALdc) | Erosional (ERer) | Residual (RElh) | Water |
| Ephemeral Waterway | Beach (BEna) | Erosional (ERgy) | Swamp (SWet) | |

Figure 6 – Soil Landscapes and Hydrology

2.6. STEP 2C – ARE THERE ANY LANDSCAPE FEATURES THAT ARE LIKELY TO INDICATE THE PRESENCE OF ABORIGINAL OBJECTS?

No.

The Due Diligence Code identifies certain landscape features that have the high potential for Aboriginal archaeological resources and cultural heritage. The following landscape features are identified as having high potential for Aboriginal objects:

- within 200 m of waters including freshwater and the high tide mark of shorelines; or
- located within a sand dune system; or
- located on a ridge top, ridge line or headland; or
- located within 200 m below or above a cliff face; or
- within 20 m of or in a cave, rock shelter, or a cave mouth.

None of these features are present within the subject area.

The original soil profile of the subject area did include sands, but high levels of disturbance have removed the natural soil profile. The low archaeological potential of the subject area is indicative of the existence of the disturbed terrain across the majority.

One way of assessing the level of surface soil disturbance is to analyse historical aerial photographs which can provide vital information on the changing environment within a given area. Aerials from 1930, 1943, 1961 and 2019 have been analysed (Figure 7). The results of the assessment are provided in Table 3

Table 3 – Results of the analysis of historic aerial images

Year	Observation
1930	In 1930, the subject area is already disturbed. Vegetation clearance had already occurred. A sports field is already in place by this date which would have required the removal of soils and levelling of the area. There are also already some structures to the west of the subject area. The northern portion of the subject area is less disturbed at this point; however, it had been cleared of vegetation previously. The north west corner of the subject area shows a residential structure and outbuildings. The listed heritage trees have, at this point, been planted.
1943	By 1943 the sports field appears more formalised, with a fence and perimeter track evident. The field also appears to be turfed, which would have required the importation of more fertile fill. At this stage the listed perimeter trees are established, and additional structures present in the west and north of the subject area.
1961	By 1961 the residential dwelling and outbuildings in the north west corner of the subject area have been demolished. A small structure with yard is present in the north eastern corner of the project area. The complex of structures along the western boundary of the subject area has increased in number by this date. Of particular interest the beginnings of a raised amphitheatre style viewing structure/bounding is present by this date with seating surrounding the oval field.
2019	By 2019, the subject area has been heavily disturbed. The shape of the field has changed from oval to rectilinear, with formalised seating around the edges and grandstand replacing the numerous earlier structures in the western subject area. The mounding on the edges of the sporting field are much more pronounced than those present in 1961 and would have resulted in heavy impacts to the ground with the

Year	Observation
	excavating of soils and importation of fill. In the very northern portion of the subject area, the previously mostly vacant land has by this point been turned into a landscaped area with amphitheatre seating, involving the excavation of soils. There is also a car park present in the southern end of the subject area.

The available historic aerial images show that the subject area has been used as a sporting facility for the past almost 90 years, with historic records showing it was used as a sports field as early as 1912. Disturbance across the entirety of the subject area is extensive involving the removal, importation and machine movement of soils. There has also been a number of structures in the north and west of the subject area which have since been demolished to make way for modern ticket office facilities and the current grandstand respectively.

The subject area is highly disturbed as a result of its historic and current use as a sporting facility.



GDA 1994 MGA Zone 56



Project No - P0012460

Project Manager - Balazs Hansel

Subject Area

© 2019. PSMA Australia Ltd, HERE Pty Ltd. ABS. Produced by Urbis Pty Ltd ABN 50 105 256 228, Aug 2019

HISTORICAL AERIAL PHOTOGRAPHS
Brookvale Oval
MWSE

Figure 7 – historic aerial photographs

2.7. STEP 3 - CAN HARM TO ABORIGINAL OBJECTS LISTED ON AHIMS OR IDENTIFIED BY OTHER SOURCES OF INFORMATION AND/OR CAN THE CARRYING OUT OF THE ACTIVITY AT THE RELEVANT LANDSCAPE FEATURES BE AVOIDED?

There are no registered Aboriginal objects and/or places within the subject area. There are no landscape features present which would indicate archaeological sensitivity.

Disturbance across the subject area is high, which along with the absence of relevant landscape features has reduced the archaeological potential of the subject area to low. Therefore, there is low-nil potential of Aboriginal objects and/or places being harmed by the proposed works, despite impacts to the ground surface.

2.8. STEP 4 – DOES THE DESKTOP ASSESSMENT AND VISUAL INSPECTION CONFIRM THAT THERE ARE ABORIGINAL OBJECTS OR THAT THEY ARE LIKELY?

The desktop assessment confirmed the following:

- There are no Aboriginal objects and/or places registered within the subject area;
- There are no landscape features located within the subject area that have potential for Aboriginal objects in accordance with the Due Diligence Code;
- Disturbance relating to historical use of the subject area is high; and
- The archaeological potential of the subject area is low.

A site inspection was undertaken on Monday 5 August 2019 by Urbis Senior Archaeologist Andrew Crisp accompanied by Urbis Associate Director Lynette Gurr and Urbis Consultant Lucy King who were engaged to conduct a built heritage assessment for the same project.

Pedestrian survey was conducted of the entire subject area with particular focus given to any potential exposures. The entire subject area has been moderately to highly impacted from the construction of the current iteration of Brookvale Oval and its associated infrastructure.

To the east of Brookvale Oval impacts from the construction of artificial mounding to form an amphitheatre style viewing hills have considerably impacted on the subject area (Figure 8, Figure 10 and Figure 11). Large erosion scours along the eastern face of these mounds revealed a mixed context of medium brown sandy soil with inclusions of clay, crushed sandstone and fragments of brick throughout (Figure 9). Associated with this mounding are pathways, toilet blocks and floodlights (Figure 8).

To the rear (north) of Brookvale Oval is a small park with skirting terraced slopes, forming a small amphitheatre environment (Figure 12). Associated with this small park are a number of pagodas, two small playgrounds and a childcare centre. To the south of Brookvale Oval the terrain has been completely modified by mounding for the southern grandstand, cycle/pathways and landscaping (Figure 13).

No previously unregistered Aboriginal objects, sites nor areas of archaeological potential were identified during the survey.



Figure 8 – Artificial mounding on eastern side of oval.

Source: Urbis



Figure 9 – Exposed clay, crushed sandstone and brick in erosion scour on eastern side of mound.

Source: Urbis



Figure 10 – Artificial mounding on eastern side of oval.

Source: Urbis



Figure 11 – Mounding and grandstand on western and south side of oval.

Source: Urbis



Figure 12 – Terraced modification of landscape to the rear (north) of Brookvale Oval.

Source: Urbis

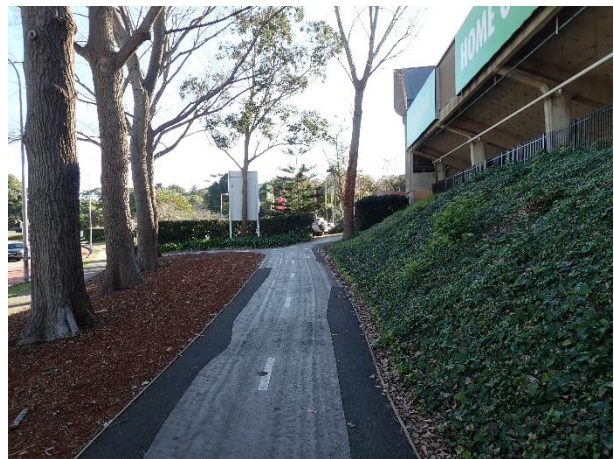


Figure 13 – Complete modification to south of Brookvale Oval.

Source: Urbis

3. CONCLUSIONS AND RECOMMENDATIONS

This DDA was prepared to investigate whether the proposed development will have the potential to harm Aboriginal objects that may exist within the subject area and inform the proposed development of any Aboriginal archaeological constraints. The DDA was prepared in accordance to the Due Diligence Code of Practice and included the following:

- Comprehensive background research of the AHIMS register, statutory and non-statutory heritage listings;
- Analysis of landscape features and their potential to retain archaeological deposits (PADs);
- Analysis of historical land use and its impact on the subject area; and
- Site inspection.

The DDA concluded that:

- There are no registered Aboriginal object and/or places and archaeological sites located within the subject area;
- The subject area is highly disturbed; and
- Due to the level of past soil disturbance and low sensitivity for Aboriginal objects to exist it is considered unlikely that the proposed works will harm Aboriginal cultural heritage and therefore no further assessment for Aboriginal heritage is recommended.

Based on the above conclusions the proposed development can proceed with caution in line with the following recommendations:

1. This DDA should be kept on file to as proof that the Due Diligence Process has been followed for the proposed development;
2. No further archaeological works relating to Aboriginal objects and/or places and archaeological sites are necessary;
3. Aboriginal objects are protected under the NPW Act regardless of whether they are registered on AHIMS or not. If suspected Aboriginal objects, such as stone artefacts are located during future works, works must cease in the affected area and an archaeologist called in to assess the finds. If the finds are found to be Aboriginal objects, the OEHL must be notified under section 89A of the NPW Act. Appropriate management and avoidance or approval under a section 90 AHIP should then be sought if Aboriginal objects are to be moved or harmed.
4. In the unlikely event that suspected human remains are encountered during the demolition of the existing building, all work in the area that may cause further impact, must cease immediately and the following measures must be implemented:
 - The location, including a 20 m curtilage, should be secured using barrier fencing to avoid further harm;
 - The NSW Police must be contacted immediately;
 - Notify OEHL's Environment Line on 131 555 as soon as practicable and provide available details of the remains and their location;
 - No further action is to be undertaken until the NSW Police provide written clearance for the identified remains;
 - Should the remains be identified as Aboriginal, the appropriate Local Aboriginal Land Council must be notified; and
 - A suitably qualified archaeologist and/or anthropologist with forensic training must be contacted.

4. BIBLIOGRAPHY

Brayshaw & Associates, 1984. *Archaeological Survey of Proposed Freeway Extension Wahroonga - Berowra*

Brayshaw McDonald, 1987. *Archaeological Survey of Bicentennial Coastal Walkway, Queenscliff-Palm Beach.*

Byrne, D. 1986. *Proposed Warringah Park Business Centre, Beacon Hill: Survey for Archaeological Sites and Report on Aboriginal Rock Engraving.*

Department of Environment Climate Change and Water 2010, *Due Diligence Code of Practice for the Protection of Aboriginal Objects in New South Wales*

Edgar, J. 1998. *Survey for Aboriginal Archaeological Sites at Lot 906 Narabang Way, Austlink Park, Belrose*

ELA, 2018. *Aboriginal Archaeological Due Diligence – 53 Little Willandra Road, Oxford Falls.*

Haglund, 1982. *Report on Survey for Archaeological Relics on the Wakehurst Parkway Route, Frenchs Forest, Sydney, NSW.*

Haglund, L. 1991. *Archaeological Investigations at Cromer NSW: Test Excavation of two Shelters in Lot 2, Maybrook Av.*

Heritage Act 1977

Mary Dallas, 1983. *An Archaeological Survey of the Wakehurst Gold and Recreation Club in the Manly Warringah War Memorial Park.*

Mary Dallas Consulting Archaeologist, 1988. *Archaeological Survey of Portion 927 Willandra Road, Beacon Hill, NSW.*

National Parks and Wildlife Act 1974

National Parks and Wildlife Regulations 2009

Oliver Brown Consulting Archaeology, 2011. *28 Rodborough Road, Frenchs Forest, Due Diligence Aboriginal Heritage Impact Assessment.*

DISCLAIMER

This report is dated 16 October 2019 and incorporates information and events up to that date only and excludes any information arising, or event occurring, after that date which may affect the validity of Urbis Pty Ltd's (**Urbis**) opinion in this report. Urbis prepared this report on the instructions, and for the benefit only, of Manly Warringah Sea Eagles (**Instructing Party**) for the purpose of an Aboriginal Objects Due Diligence Assessment (**Purpose**) and not for any other purpose or use. To the extent permitted by applicable law, Urbis expressly disclaims all liability, whether direct or indirect, to the Instructing Party which relies or purports to rely on this report for any purpose other than the Purpose, and to any other person which relies or purports to rely on this report for any purpose whatsoever (including the Purpose).

In preparing this report, Urbis was required to make judgements which may be affected by unforeseen future events, the likelihood and effects of which are not capable of precise assessment.

All surveys, forecasts, projections and recommendations contained in or associated with this report are made in good faith and on the basis of information supplied to Urbis at the date of this report, and upon which Urbis relied. Achievement of the projections and budgets set out in this report will depend, among other things, on the actions of others over which Urbis has no control.

In preparing this report, Urbis may rely on or refer to documents in a language other than English, which Urbis may arrange to be translated. Urbis is not responsible for the accuracy or completeness of such translations and disclaims any liability for any statement or opinion made in this report being inaccurate or incomplete arising from such translations.

Whilst Urbis has made all reasonable inquiries it believes necessary in preparing this report, it is not responsible for determining the completeness or accuracy of information provided to it. Urbis (including its officers and personnel) is not liable for any errors or omissions, including in information provided by the Instructing Party or another person or upon which Urbis relies, provided that such errors or omissions are not made by Urbis recklessly or in bad faith.

This report has been prepared with due care and diligence by Urbis and the statements and opinions given by Urbis in this report are given in good faith and in the reasonable belief that they are correct and not misleading, subject to the limitations above.

APPENDIX A BASIC AND EXTENSIVE AHIMS SEARCHES

Urbis Pty Ltd - 201 Sussex St Sydney
Level 23 Tower 2, 201 Sussex Street Sydney
Sydney New South Wales 2000
Attention: Meggan Walker
Email: mwalker@urbis.com.au

Date: 01 August 2019

Dear Sir or Madam:

AHIMS Web Service search for the following area at Datum :GDA, Zone : 56, Eastings : 337094 - 343094, Northings : 6260122 - 6266122 with a Buffer of 0 meters, conducted by Meggan Walker on 01 August 2019.

The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.



A search of the Office of the Environment and Heritage AHIMS Web Services (Aboriginal Heritage Information Management System) has shown that:

88	Aboriginal sites are recorded in or near the above location.
0	Aboriginal places have been declared in or near the above location. *

If your search shows Aboriginal sites or places what should you do?

- You must do an extensive search if AHIMS has shown that there are Aboriginal sites or places recorded in the search area.
- If you are checking AHIMS as a part of your due diligence, refer to the next steps of the Due Diligence Code of practice.
- You can get further information about Aboriginal places by looking at the gazettal notice that declared it. Aboriginal places gazetted after 2001 are available on the [NSW Government Gazette \(http://www.nsw.gov.au/gazette\)](http://www.nsw.gov.au/gazette) website. Gazettal notices published prior to 2001 can be obtained from Office of Environment and Heritage's Aboriginal Heritage Information Unit upon request

Important information about your AHIMS search

- The information derived from the AHIMS search is only to be used for the purpose for which it was requested. It is not be made available to the public.
- AHIMS records information about Aboriginal sites that have been provided to Office of Environment and Heritage and Aboriginal places that have been declared by the Minister;
- Information recorded on AHIMS may vary in its accuracy and may not be up to date .Location details are recorded as grid references and it is important to note that there may be errors or omissions in these recordings,
- Some parts of New South Wales have not been investigated in detail and there may be fewer records of Aboriginal sites in those areas. These areas may contain Aboriginal sites which are not recorded on AHIMS.
- Aboriginal objects are protected under the National Parks and Wildlife Act 1974 even if they are not recorded as a site on AHIMS.
- This search can form part of your due diligence and remains valid for 12 months.

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
45-6-2274	Frenchs Forest - (refer to 45-6-1273)	AGD	56	337195	6264955	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	
	Contact									
	Recorders									
45-6-0735	QP1;	AGD	56	342385	6262328	Closed site	Valid	Shell : -, Artefact : -	Shelter with Midden	1263
	Contact									
	Recorders									
45-6-2958	Undercliff Road RS and Midden	GDA	56	341465	6260726	Open site	Valid	Potential Archaeological Deposit (PAD) : -, Shell : -		
	Contact									
	Recorders									
45-6-2975	CS1 (Brookvale)	GDA	56	339537	6263325	Open site	Valid	Artefact : 1		
	Contact									
	Recorders									
45-6-3192	30 Lyly Rd Rockshelter	GDA	56	338924	6262018	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	Contact									
	Recorders									
45-6-1089	Frenchs Forest;Dee Why;	AGD	56	339117	6264497	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	1891
	Contact									
	Recorders									
45-6-0689	Frenchs Forest;Allambie Road;	AGD	56	338536	6261528	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	
	Contact									
	Recorders									
45-6-0695	Beacon Hill;Frenchs Forest;	AGD	56	338924	6263338	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	
	Contact									
	Recorders									
45-6-0696	QP2; duplicate of 45-6-1756	AGD	56	342542	6262434	Closed site	Deleted	Shell : -, Artefact : -	Shelter with Deposit,Shelter with Midden	1263
	Contact									
	Recorders									
45-6-0699	Frenchs Forest;Flat Rocks;	AGD	56	338850	6261534	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	
	Contact									
	Recorders									
45-6-0700	Beacon Hill;Frenchs Forest;	AGD	56	339327	6263177	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	
	Contact									
	Recorders									
45-6-0702	Frenchs Forest;	AGD	56	339173	6264053	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	
	Contact									
	Recorders									

Report generated by AHIMS Web Service on 01/08/2019 for Meggan Walker for the following area at Datum :GDA, Zone : 56, Eastings : 337094 - 343094, Northings : 6260122 - 6266122 with a Buffer of 0 meters. Additional Info : Aboriginal Due Diligence Assessment. Number of Aboriginal sites and Aboriginal objects found is 88

This information is not guaranteed to be free from error omission. Office of Environment and Heritage (NSW) and its employees disclaim liability for any act done or omission made on the information and consequences of such acts or omission.

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
45-6-1255	Allambie Heights;	AGD	56	338287	6261912	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	
	Contact									
	Recorders			ASRSYS				Permits		
45-6-1273	Belrose.	AGD	56	337230	6265050	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	1891
	Contact									
	Recorders			Mr.Phil Hunt,Charles.D Power				Permits		
45-6-1275	Belrose;	AGD	56	337270	6264946	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	
	Contact									
	Recorders			ASRSYS				Permits		
45-6-1233	Manly Dam; Manly Vale	GDA	56	338540	6260523	Closed site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	
	Contact									
	Recorders			ASRSYS,Sydney Water-Parramatta,Ms.Yvonne Kaiser				Permits		
45-6-2085	Hydro Cave	GDA	56	338568	6260671	Closed site	Valid	Art (Pigment or Engraved) : -	Shelter with Art	1809
	Contact									
	Recorders			Michael Guider,Sydney Water-Parramatta,Ms.Yvonne Kaiser				Permits		
45-6-2402	Maillolo Engraving;	AGD	56	338209	6263722	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	
	Contact									
	Recorders			Ms.Janice Cawthorn				Permits		
45-6-0563	Wheeler Creek;Mona Vale;	AGD	56	338152	6265783	Closed site	Valid	Artefact : -	Shelter with Deposit	
	Contact									
	Recorders			Ms.Bronwyn Conyers,L Hoad,Neil Stone				Permits		
45-6-2170	NCC Cave 2;	AGD	56	342388	6262326	Closed site	Valid	Shell : -, Artefact : -	Shelter with Midden	
	Contact									
	Recorders			Michael Guider				Permits		
45-6-2171	NCC Cave 1;	AGD	56	342384	6262330	Closed site	Valid	Shell : -, Artefact : -	Shelter with Midden	
	Contact									
	Recorders			Michael Guider				Permits		
45-6-2177	Malinya Rd;	AGD	56	339052	6261610	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	
	Contact									
	Recorders			Michael Guider				Permits		
45-6-2337	Red Hill, Narraweena 1	AGD	56	337964	6265026	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	
	Contact									
	Recorders			Michael Guider				Permits		
45-6-1253	Dee Why;	AGD	56	340471	6264323	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	
	Contact									
	Recorders			ASRSYS				Permits		
45-6-0727	Dee Why;	AGD	56	341507	6263089	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	
	Contact									
	Recorders			ASRSYS				Permits		

Report generated by AHIMS Web Service on 01/08/2019 for Meggan Walker for the following area at Datum :GDA, Zone : 56, Eastings : 337094 - 343094, Northings : 6260122 - 6266122 with a Buffer of 0 meters. Additional Info : Aboriginal Due Diligence Assessment. Number of Aboriginal sites and Aboriginal objects found is 88

This information is not guaranteed to be free from error omission. Office of Environment and Heritage (NSW) and its employees disclaim liability for any act done or omission made on the information and consequences of such acts or omission.

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
45-6-0745	Beacon Hill;	AGD	56	338216	6263740	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	2212
	Contact			Recorders	R.H Mathews			Permits		
45-6-0752	Beacon Hill;	AGD	56	338105	6263805	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	
	Contact			Recorders	ASRSYS			Permits		
45-6-0753	Beacon Hill;	AGD	56	338077	6263821	Open site	Valid	Art (Pigment or Engraved) : -, Grinding Groove : -, Water Hole : -	Axe Grinding Groove,Rock Engraving,Water Hole/Well	2212
	Contact			Recorders	ASRSYS			Permits		
45-6-0114	Dee Why;Manly Cove;	AGD	56	339360	6264365	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	
	Contact			Recorders	R.H Mathews			Permits		
45-6-0115	Dee Why;Parr Parade;	AGD	56	339374	6264362	Open site	Valid	Art (Pigment or Engraved) : -, Grinding Groove : -	Axe Grinding Groove,Rock Engraving	
	Contact			Recorders	Fred McCarthy			Permits		
45-6-0116	Dee Why;Narraweena (Manly Cove);	AGD	56	339154	6264446	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	
	Contact			Recorders	Fred McCarthy			Permits		
45-6-0053	Dee Why.	AGD	56	338807	6264602	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	
	Contact			Recorders	Ms.Lisa Campbell,Mr.Paul Irish			Permits		
45-6-1756	QP2 duplicate of 45-6-0696	GDA	56	342525	6262434	Closed site	Valid	Shell : -, Artefact : -	Shelter with Midden	
	Contact			Recorders	Doctor.Jo McDonald,Mr.Phil Hunt			Permits		
45-6-1760	South Creek 1	AGD	56	341160	6265525	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	
	Contact			Recorders	A Heath			Permits		
45-6-1493	Belrose	AGD	56	338823	6265895	Closed site	Valid	Artefact : -	Shelter with Deposit	940,2010
	Contact			Recorders	Ms.Laila Haglund			Permits		
45-6-0934	Belrose; Warr-223B	AGD	56	338249	6264513	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	1989,4422
	Contact			Recorders	ASRSYS			Permits	175	
45-6-0117	Belrose;Wheeler Creek;	AGD	56	338168	6265754	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	
	Contact			Recorders	Young,Ms.Lisa Campbell			Permits		

Report generated by AHIMS Web Service on 01/08/2019 for Meggan Walker for the following area at Datum :GDA, Zone : 56, Eastings : 337094 - 343094, Northings : 6260122 - 6266122 with a Buffer of 0 meters. Additional Info : Aboriginal Due Diligence Assessment. Number of Aboriginal sites and Aboriginal objects found is 88

This information is not guaranteed to be free from error omission. Office of Environment and Heritage (NSW) and its employees disclaim liability for any act done or omission made on the information and consequences of such acts or omission.

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
45-6-0118	Belrose;Wheeler Creek;	AGD	56	338226	6265669	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	1891
	Contact	Recorders	Young,Ms.Lisa Campbell		Permits					
45-6-0119	Belrose;Wheeler Creek;	AGD	56	338187	6265742	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	371,1891
	Contact	Recorders	Young,Ms.Lisa Campbell		Permits					
45-6-0121	Wheeler Creek; Belrose WARR - 49	AGD	56	338425	6265845	Open site	Valid	Art (Pigment or Engraved) : 3	Rock Engraving	1891
	Contact	Recorders	Young,Ms.Lisa Campbell,Mr.Phil Hunt		Permits					
45-6-0130	Campbell;Belrose;Wheeler Creek;	AGD	56	339429	6264392	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	
	Contact	Recorders	ASRSYS		Permits					
45-6-0056	Collaroy Plateau;	AGD	56	341982	6265140	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	
	Contact	Recorders	J.C Lough		Permits					
45-6-0668	Allambie Heights Warringah Rd Allambie Rd	GDA	56	337740	6263515	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	1043,102261
	Contact	Recorders	Mr.Phil Hunt,Mr.Bob Conroy		Permits	57,727				
45-6-0669	Seaforth;Wakehurst Golf Club	GDA	56	337470	6261425	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	254
	Contact	Recorders	Mr.Phil Hunt		Permits					
45-6-0670	Seaforth;Wakehurst Golf Club;	AGD	56	337394	6260981	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	254
	Contact	Recorders	D Beasley		Permits					
45-6-0671	Seaforth;Wakehurst Golf Club;	AGD	56	337444	6260962	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	254
	Contact	Recorders	D Beasley		Permits					
45-6-0672	Seaforth;Wakehurst Golf Club;	AGD	56	337462	6261082	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	254
	Contact	Recorders	D Beasley		Permits					
45-6-0303	Belrose;	AGD	56	337006	6265814	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	1891
	Contact	Recorders	Young,W Walton		Permits					
45-6-0881	Allambie Heights;	AGD	56	338315	6262166	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	
	Contact	Recorders	Charles.D Power		Permits					
45-6-0074	Collaroy;Long Reef Ridge;	AGD	56	341825	6265475	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	
	Contact	Recorders	Fred McCarthy		Permits					

Report generated by AHIMS Web Service on 01/08/2019 for Meggan Walker for the following area at Datum :GDA, Zone : 56, Eastings : 337094 - 343094, Northings : 6260122 - 6266122 with a Buffer of 0 meters. Additional Info : Aboriginal Due Diligence Assessment. Number of Aboriginal sites and Aboriginal objects found is 88

This information is not guaranteed to be free from error omission. Office of Environment and Heritage (NSW) and its employees disclaim liability for any act done or omission made on the information and consequences of such acts or omission.



SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
45-6-0075	Collaroy;Long Reef Ridge;	AGD	56	341773	6265507	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	
	Contact							Permits		
45-6-0076	Collaroy;Long Reef Ridge;	AGD	56	341750	6265500	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	
	Contact							Permits		
45-6-0077	Collaroy;Long Reef Ridge;	AGD	56	341700	6265501	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	
	Contact							Permits		
45-6-0078	Collaroy;Long Reef Ridge;	AGD	56	341450	6265452	Open site	Valid	Grinding Groove : -	Axe Grinding Groove	
	Contact							Permits		
45-6-0079	Collaroy;Long Reef Ridge;	AGD	56	341356	6265413	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	
	Contact							Permits		
45-6-0089	Belrose;Wheelers Creek;Group 121;	AGD	56	338580	6265747	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	
	Contact							Permits		
45-6-0090	Collaroy;	AGD	56	341510	6265531	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	122,1276
	Contact							Permits		
45-6-0904	Allambie Heights;	AGD	56	338268	6262167	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	
	Contact							Permits		
45-6-0905	Sunnyfield Home;Allambie Heights;	AGD	56	337349	6263012	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	
	Contact							Permits		
45-6-0824	Frenchs Forest,;	AGD	56	338106	6263804	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	
	Contact							Permits		
45-6-1851	South Creek,;	AGD	56	341219	6265547	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	
	Contact							Permits		
45-6-1852	Fishermans Beach	AGD	56	342960	6265520	Open site	Valid	Shell : -, Artefact : -	Midden	
	Contact							Permits		
45-6-0018	Dee Why	AGD	56	341244	6263385	Closed site	Valid	Shell : -, Artefact : -	Shelter with Midden	
	Contact							Permits		
45-6-1014	Belrose;Red Glow Cave;	AGD	56	337972	6264695	Closed site	Valid	Art (Pigment or Engraved) : -	Shelter with Art	

Report generated by AHIMS Web Service on 01/08/2019 for Meggan Walker for the following area at Datum :GDA, Zone : 56, Eastings : 337094 - 343094, Northings : 6260122 - 6266122 with a Buffer of 0 meters. Additional Info : Aboriginal Due Diligence Assessment. Number of Aboriginal sites and Aboriginal objects found is 88

This information is not guaranteed to be free from error omission. Office of Environment and Heritage (NSW) and its employees disclaim liability for any act done or omission made on the information and consequences of such acts or omission.



SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
	Contact	Recorders	ASRSYS					Permits		
45-6-1015	Belrose;	AGD	56	337964	6265026	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	1447,1891
	Contact	Recorders	Ms.Lisa Campbell					Permits		
45-6-1573	Alkira Circuit;Narraweena;	AGD	56	339431	6264300	Closed site	Valid	Shell : -, Artefact : -, Art (Pigment or Engraved) : -	Rock Engraving,Shelter with Midden	
	Contact	Recorders	ASRSYS					Permits		
45-6-2790	Brooker Avenue Engraving Site 1	AGD	56	338034	6264770	Closed site	Valid	Art (Pigment or Engraved) : 2		
	Contact T Russell	Recorders	Mr.Phil Hunt,Mr.Paul Irish					Permits		
45-6-0731	Harboard;Dee Why Head;	AGD	56	342645	6262355	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	
	Contact	Recorders	Unknown Author					Permits		
45-6-2380	Red Hill 2 [further info. see report 101514]	AGD	56	338837	6264438	Closed site	Valid	Art (Pigment or Engraved) : -, Artefact : -	Shelter with Art,Shelter with Deposit	
	Contact	Recorders	Michael Guider					Permits		
45-6-0019	Dee Why	AGD	56	338860	6264244	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	
	Contact	Recorders	Charles.D Power,Mr.Paul Irish					Permits		
45-6-0692	Beacon Hill Frenchs Forest	AGD	56	338856	6264237	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	93
	Contact	Recorders	Unknown Author,Mr.Paul Irish					Permits		
45-6-3080	WGC 1 WARR214	GDA	56	337975	6261610	Open site	Valid	Art (Pigment or Engraved) : 1, Grinding Groove : 1, Potential Archaeological Deposit (PAD) : 1		
	Contact	Recorders	Aboriginal Heritage Office					Permits		
45-6-3048	Ronald Reserve Shelter WARR 194	GDA	56	341754	6261180	Closed site	Valid	Shell : -		
	Contact	Recorders	Aboriginal Heritage Office					Permits		
45-6-3497	Manly Dam Contact Art	GDA	56	338332	6260585	Open site	Valid	Art (Pigment or Engraved) : 5		
	Contact	Recorders	Ms.Lorien Perchard					Permits		
45-6-3498	Manly Dam 9 Grinding Grooves	GDA	56	338484	6260611	Open site	Valid	Grinding Groove : 9		
	Contact	Recorders	Ms.Lorien Perchard					Permits		

Report generated by AHIMS Web Service on 01/08/2019 for Meggan Walker for the following area at Datum :GDA, Zone : 56, Eastings : 337094 - 343094, Northings : 6260122 - 6266122 with a Buffer of 0 meters. Additional Info : Aboriginal Due Diligence Assessment. Number of Aboriginal sites and Aboriginal objects found is 88

This information is not guaranteed to be free from error omission. Office of Environment and Heritage (NSW) and its employees disclaim liability for any act done or omission made on the information and consequences of such acts or omission.

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
45-6-3579	Oxford Falls RS-1	GDA	56	339280	6265151	Open site	Valid	Habitation Structure : 1, Potential Archaeological Deposit (PAD) : 1		
	Contact									Recorders Mr.Tyler Beebe,Eco Logical Australia Permits
45-6-2633	wgc-2	AGD	56	337330	6260910	Closed site	Valid	Art (Pigment or Engraved) : -, Artefact : -		
	Contact									Recorders Mr.Phil Hunt Permits
45-6-2791	Studee Parade Shelter	GDA	56	341304	6263565	Closed site	Valid	Potential Archaeological Deposit (PAD) : 1		
	Contact T Russell									Recorders Mr.Phil Hunt,Mr.Paul Irish Permits
45-6-2787	Wheeler Creek Engraving WARR -59	GDA	56	338660	6265940	Open site	Valid	Aboriginal Resource and Gathering : 1		
	Contact T Russell									Recorders Mr.Phil Hunt Permits
45-6-2793	Sturdee Parade Shelter	AGD	56	341200	6263375	Closed site	Valid	Potential Archaeological Deposit (PAD) : -		
	Contact T Russell									Recorders Mr.Paul Irish Permits
45-6-3127	Manly Dam Art Shelter Art 1	GDA	56	338340	6260420	Open site	Valid	Art (Pigment or Engraved) : -		
	Contact									Recorders Mr.Gareth Birch Permits
45-6-3147	Mermaid Pool (South)	GDA	56	338790	6260855	Closed site	Valid	Art (Pigment or Engraved) : -, Water Hole : -		
	Contact									Recorders Sydney Water-Parramatta,Ms.Yvonne Kaiser Permits
45-6-3139	Monserra Engraving WARR350	GDA	56	338250	6261800	Open site	Valid	Art (Pigment or Engraved) : -		
	Contact									Recorders Mr.Phil Hunt Permits
45-6-3140	Delmar Parade Engraving WARR191	GDA	56	341250	6263460	Open site	Valid	Art (Pigment or Engraved) : -		
	Contact									Recorders Mr.Phil Hunt Permits
45-6-3146	Lincoln Ave Shelter WARR-039	GDA	56	342040	6265255	Open site	Valid	Shell : -		
	Contact									Recorders Mr.Phil Hunt Permits
45-6-3148	Manly Dam 1	GDA	56	338518	6260973	Open site	Valid	Artefact : -		
	Contact									Recorders Sydney Water-Parramatta,Ms.Yvonne Kaiser Permits

Report generated by AHIMS Web Service on 01/08/2019 for Meggan Walker for the following area at Datum :GDA, Zone : 56, Eastings : 337094 - 343094, Northings : 6260122 - 6266122 with a Buffer of 0 meters. Additional Info : Aboriginal Due Diligence Assessment. Number of Aboriginal sites and Aboriginal objects found is 88

This information is not guaranteed to be free from error omission. Office of Environment and Heritage (NSW) and its employees disclaim liability for any act done or omission made on the information and consequences of such acts or omission.

<u>SiteID</u>	<u>SiteName</u>	<u>Datum</u>	<u>Zone</u>	<u>Easting</u>	<u>Northing</u>	<u>Context</u>	<u>Site Status</u>	<u>SiteFeatures</u>	<u>SiteTypes</u>	<u>Reports</u>	
45-6-3149	Mermaid Pool (North)	GDA	56	338831	6260908	Closed site	Valid	Water Hole : -, Art (Pigment or Engraved) : -, Potential Archaeological Deposit (PAD) :-			
	<u>Contact</u>	<u>Recorders</u>	Sydney Water-Parramatta,Ms.Yvonne Kaiser								<u>Permits</u>
45-6-3229	Derribong Shelter 1 WARR188	GDA	56	341670	6263435	Open site	Valid	Shell : 1			
	<u>Contact</u>	<u>Recorders</u>	Mr.Phil Hunt,Aboriginal Heritage Office								<u>Permits</u>

Report generated by AHIMS Web Service on 01/08/2019 for Meggan Walker for the following area at Datum :GDA, Zone : 56, Eastings : 337094 - 343094, Northings : 6260122 - 6266122 with a Buffer of 0 meters. Additional Info : Aboriginal Due Diligence Assessment. Number of Aboriginal sites and Aboriginal objects found is 88

This information is not guaranteed to be free from error omission. Office of Environment and Heritage (NSW) and its employees disclaim liability for any act done or omission made on the information and consequences of such acts or omission.

