



Attachment 3 to Item 3.1.1.

Aboriginal Heritage Due Diligence Assessment

Date of meeting: 21 November 2024
Location: Audio-visual link
Time: 10am



artefact

29 May 2024

Andrew Flaherty
Redbank Communities
76 Arthur Phillip Drive,
North Richmond, NSW 2754
E: andrewflaherty@redbankcommunities.com.au
M: 0419 474 960

Dear Andrew,

**Re: Aboriginal Heritage Due Diligence Report – Redbank Expansion Area (Kemsley Park)
Aboriginal Heritage Due Diligence**

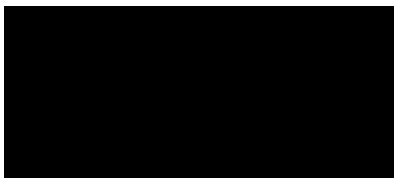
Artefact Heritage and Environment Pty Ltd (Artefact) have been engaged by Redbank Communities to prepare an Aboriginal Due Diligence Report for the proposed Redbank Expansion Area (Kemsley Park), known as 332 Grose Vale Road, Grose Vale (Lot 260 DP 1237271).

This report outlines the results of an Aboriginal Heritage Due Diligence which meets the requirements of the *Due Diligence Code of Practice for the Protection of Aboriginal Objects in New South Wales* (Department of Environment, Climate Change and Water [DECCW] 2010a), hereafter the Due Diligence Code of Practice, and includes recommendations as to whether further archaeological investigation may be required.

This report has been prepared by Emma Jones (Heritage Consultant) with management input and review provided by Ryan Taddeucci (Aboriginal Heritage- Team Leader), Stephanie Moore (Senior Associate) and Jayden van Beek (Technical Specialist).

If you have any queries regarding this due diligence, please do not hesitate to contact me.

Yours sincerely,



Emma Jones
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Artefact Heritage
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(02) 9518 8411

1.0 INTRODUCTION

The *National Parks & Wildlife Act 1974* (the NPW Act) provides statutory protection for all 'Aboriginal objects' and 'Aboriginal Places' in NSW whereby it is an offence to damage, deface or destroy Aboriginal objects or places. The NPW Act defines an Aboriginal 'object' as:

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

An 'Aboriginal place' is a place gazetted by the Minister, under the Section 84 of the NPW Act:

The Minister may, by order published in the Gazette, declare any place specified or described in the order, being a place that, in the opinion of the Minister, is or was of special significance with respect to Aboriginal culture, to be an Aboriginal place for the purposes of this Act.

Section 87(1) of the NPW Act provides that it is a defence to these provisions if the harm is authorised by an Aboriginal Heritage Impact Permit (AHIP). Section 87(2) of the NPW Act provides that:

It is a defence to a prosecution for an offence under section 86 (2) if the defendant shows that the defendant exercised due diligence to determine whether the act or omission constituting the alleged offence would harm an Aboriginal object and reasonably determined that no Aboriginal object would be harmed.

Undertaking Due Diligence does not constitute consent to harm Aboriginal objects, nor are they a 'site clearance' mechanism to allow activities to occur in an area where Aboriginal objects are likely or known to be present. Consultation with the Aboriginal community is not a formal requirement of the Due Diligence process, however, consideration of undertaking some form of consultation should occur, particularly if it will assist in informing any decision-making. If an AHIP will be required, consultation must be undertaken in accordance with the requirements of Section 60 of the *National Parks and Wildlife Regulation 2019*, as described in the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010b).

The completion of Due Diligence should only occur in situations where it is appropriate and applicable to do so by following the flowchart on Page 1 of the Due Diligence Code of Practice. It has been determined that it is appropriate to undertake a Due Diligence for these proposed, as shown in Table 1.

Table 1: Determination of the suitability of employing a Due Diligence process for this activity

Question	Answer
1. Is the activity considered a Major Project under Part 4, Division 4.7 or Part 5, Division 5.2 of the EP&A Act?	No
2. Is the activity exempt from the National Parks and Wildlife Act 1974 or Regulation 2019?	No
3. Will the activity involve harm that is trivial or negligible?	No
4. Is the activity in an Aboriginal Place or there are known Aboriginal objects in the project area?	No
5. Is the activity a low impact activity in accordance with the National Parks and Wildlife Regulation 2019?	No
6. Do you want to follow an industry specific Code of Practice?	No
7. Follow the Due Diligence Code of Practice?	Yes

2.0 PROJECT INFORMATION

2.1 Project background

Artefact have been engaged to prepare an Aboriginal Heritage Due Diligence for the proposed Redbank Expansion Area (Kemsley Park), known as 322 Grose Vale Road (Lot 260 DP 1237271). It is understood that whilst 'Kemsley Park' was originally part of the overall Redbank land holding, it was not previously considered for residential development with the surrounding Redbank Communities developments. Redbank Communities now seek to expand via a Gateway Planning Proposal through Hawkesbury City Council. Artefact understands that Council is expecting the application proposal and is receptive to the overall project plan.

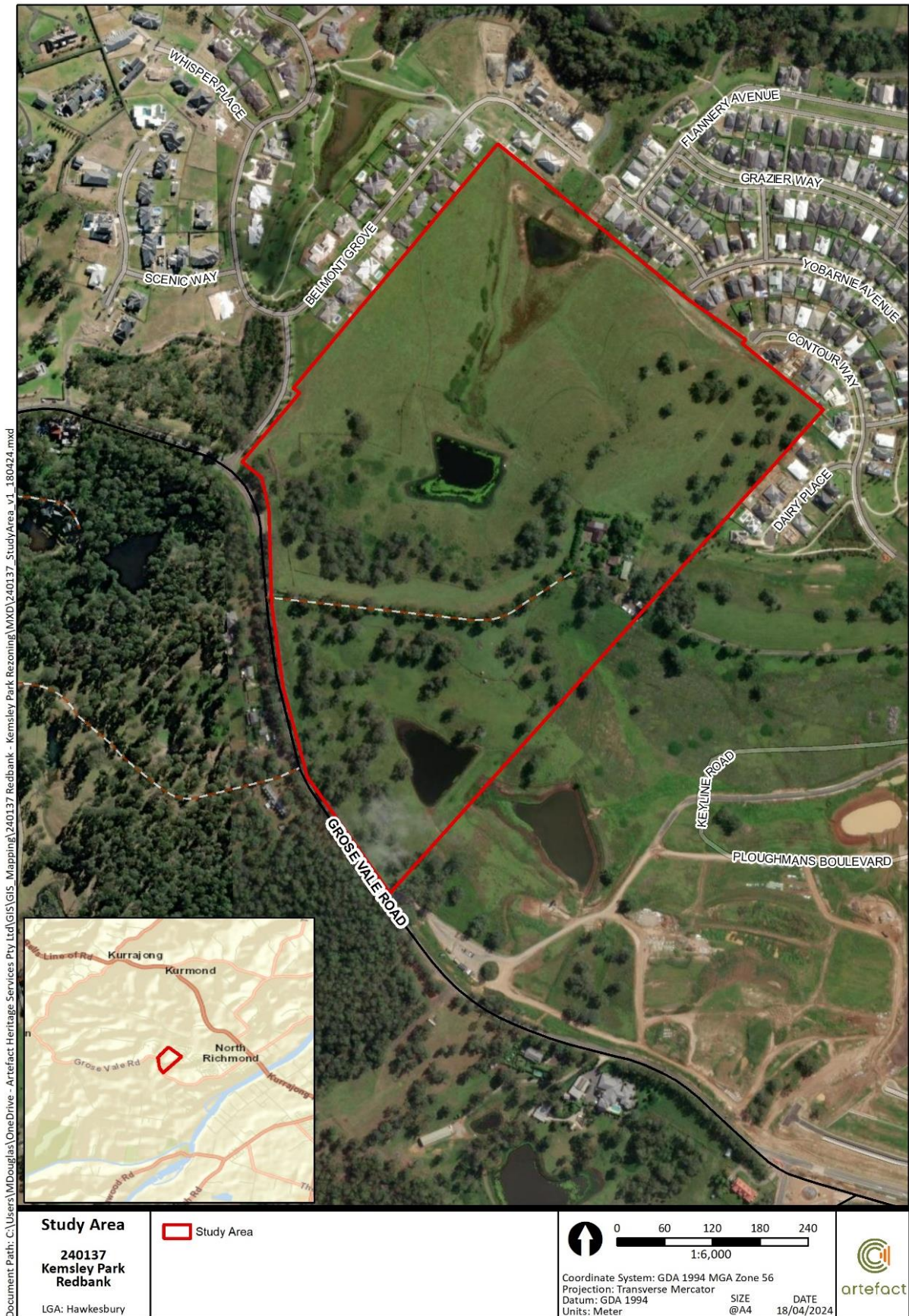
2.2 Description of the study area

The study area is located at 322 Grose Vale Road, Grose Vale (Lot 260 DP 1237271). The study area covers 34.9 hectares (86 acres) of cleared semi-rural land which is bound by Grose Vale Road along its south western margin. To the north, the study area abuts Redbank Communities' residential developments and to the south east, the study area abuts cleared semi-rural land.

2.3 Proposed works

Redbank Communities seek to re-zone the study area to facilitate residential development. As such, there are no proposed ground disturbing works within the study area at this stage.

Figure 1: Map showing the location of the study area



3.0 BACKGROUND

3.1 Aboriginal Heritage Information Management System search

NOTE: The location of Aboriginal sites is considered culturally sensitive information. It is advised that this information, including the Aboriginal Heritage Information Management System (AHIMS) data appearing on the heritage map for the proposal be removed from this report if it is to enter the public domain.

A search of the AHIMS database (Client ID 884531) was completed on 17 April 2024 for a search area measuring approximately twelve by twelve kilometres surrounding the study area. The parameters of this search were:

GDA 1994 MGA 56	279750 – 291750 m E 6275550 – 6287550 m N
Number of sites	61
Client Service ID	884531

A total of 61 registered Aboriginal sites were identified within the search area. There were no registered Aboriginal sites recorded within the study area. The closest AHIMS site identified in the search is located approximately 160 metres north east of the study area. Analysis of site distribution has identified that there is a spatial correlation between increased site frequency and increased proximity to water (Figure 2), particularly along Dyarubbin (the Hawkesbury- Nepean River) and Redbank Creek. In addition, site frequency is higher in areas where lower levels of historical ground disturbance have taken place, such as in areas of remnant bushland. Lastly, sites are present in areas where recent ground disturbance associated with residential development has taken place. Such sites include AHIMS ID 45-5-4182 and AHIMS ID 45-5-4183, which were identified during previous archaeological assessments undertaken for development within the Redbank Communities development precinct.

The AHIMS database records sites using a list of twenty standard site features (OEH, 2012), of which four were found within the extensive search as summarised in Table 2. Artefact is the most common site feature within the search area, present at 48 sites (78%). In four instances, artefacts were identified at sites which contained other site features including Art, Grinding Grooves and a Stone Arrangement. Such a high frequency of stone artefacts within the search area is typical of the region as stone artefacts tend to be less susceptible to processes of historical destruction and/ or disturbance in comparison to site features such as Culturally Modified Trees (Scarred or Carved) or Stone Arrangements, which are more easily destroyed by historical processes of ground disturbance and landform modification. Other site features within the search area, such as Grinding Grooves and Art (Pigment or Engraved) which are present at 15 sites (24%), are typical of an area where the underlying geology consists of sandstone. There is one restricted site within the search area. Email correspondence with AHIMS confirmed that this site has been destroyed and is therefore not located in the study area.

Table 2: Frequency of site features in AHIMS search results

Site Feature	Frequency	Percentage
Art (Pigment or Engraved)	2	3.2
Art (Pigment or Engraved), Artefact	2	3.2
Artefact	44	72

Site Feature	Frequency	Percentage
Artefact, Grinding Groove	1	1.6
Artefact, Stone Arrangement	1	1.6
Grinding Groove	10	16
Restricted	1	1.6
Total	61	100

Available information on sites which have been recorded within 200 metres of the study area (Figure 3), or during previous archaeological assessments undertaken for Redbank Communities, is summarised below.

AHIMS ID 45-5-4182

AHIMS ID 45-5-4182 (NR8) was originally recorded as a surface artefact and associated area of Potential Archaeological Deposit (PAD). The site is located approximately 170 metres south of Redbank Creek on an elevated slope landform. Test excavation and subsequent destruction under AHIP no. C0002175 was authorised. Excavations recovered 85 artefacts and identified that the site was capped by relatively deep topsoils (250-300 millimetres) which were likely derived from wash accumulated from the nearby upper slopes. The site reflects an increased survivability of artefacts outside of the primary flood zone of Redbank Creek.

AHIMS ID 45-5-4183

AHIMS ID 45-5-4183 (NR 9) was an artefact scatter consisting of two artefacts in an area of exposure measuring 10 by 10 metres. The artefacts were identified amongst natural deposits and imported gravelly fill. The site card noted that the artefacts were not likely *in situ* but rather transported into the area with the gravel fill. Low potential for sub-surface deposits in this area were noted. The site was destroyed under AHIP no. C0002175.

AHIMS ID 45-5-4191

AHIMS ID 45-5-4191 (NR 11) was a surface artefact scatter situated on a moderately-inclined mid slope landform. The nearest permanent water source, Redbank Creek, is situated approximately 800 metres north of the site. Prior to development occurring in the North Richmond area, the nearest watercourse was likely located approximately 250 metres south of the site. This stream has since been impacted by development in the area. The scatter covered an area of 82 by 23 metres, and 21 artefacts were identified at the time of recording. It was noted that AHIMS ID 45-5-4191 may have represented a knapping floor, as a core and debitage of the same material were identified. The site was destroyed under AHIP no. 1131937 following surface collection of artefacts within the scatter. A possible grinding stone fragment was identified during surface collection.

AHIMS ID 45-5-0510

AHIMS ID 45-5-0510 (NR6 Axe grinding grooves) consists of three weather grinding grooves situated on level outcropping sandstone in a creek bed. The grinding grooves are located near the confluence of two tributaries of Redbank Creek and in association with three pools in the creek bed.

AHIMS ID 45-5-0512

AHIMS ID 45-5-0512 (NR 5) is a large site which covers an area measuring 150 by 50 metres, spanning a sloping landform south of Redbank Creek. A total of 82 surface artefacts were identified

during initial survey, with materials including chert, tuff, silcrete, quartz, quartzite and basalt. Test excavation within the site recovered a further 80 artefacts. The site was partially destroyed under AHIP no. C0002175.

Figure 2: AHIMS extensive search results

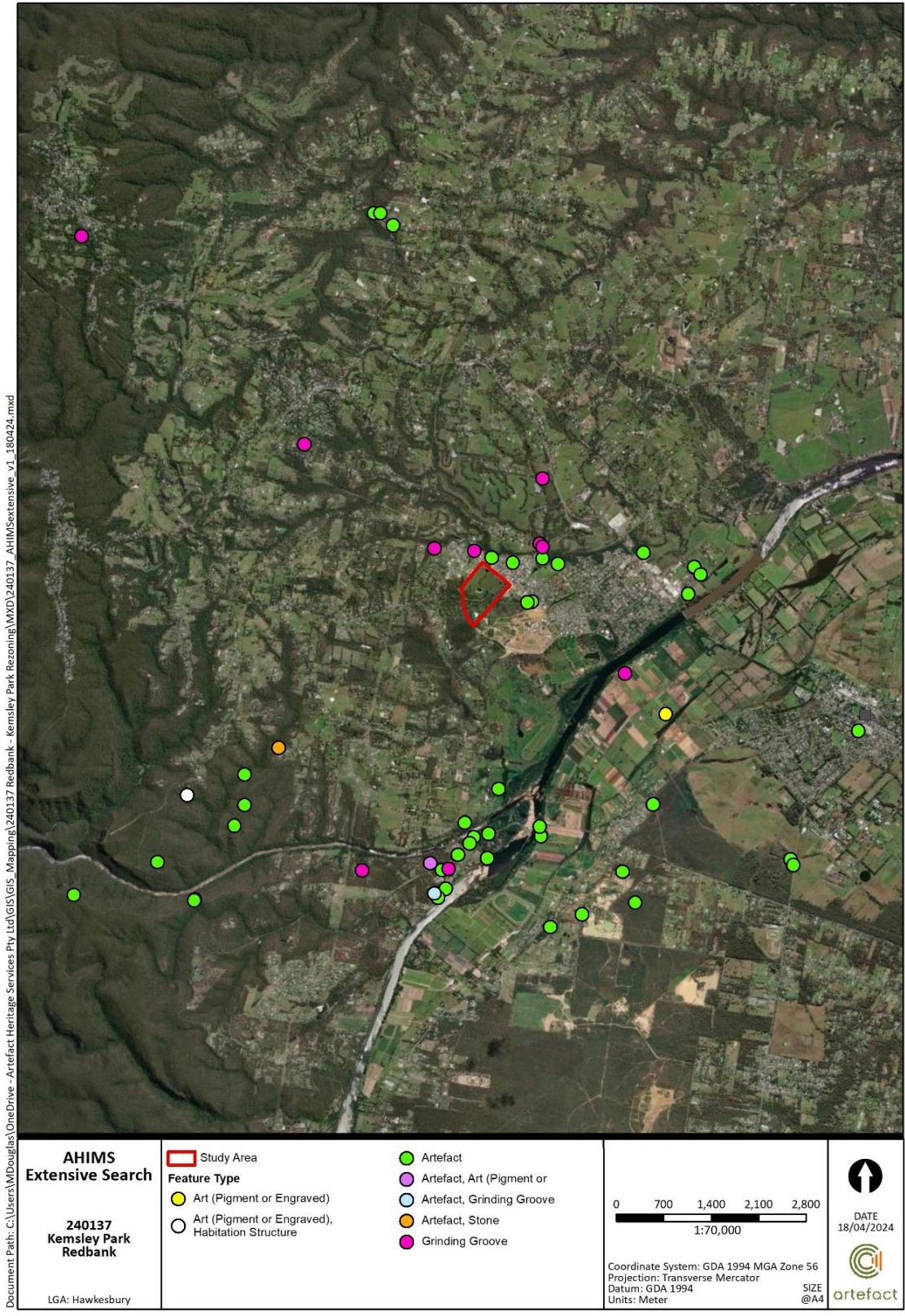


Figure 3: Map showing the location of registered AHIMS sites within 200 metres of the study area



3.2 Previous archaeological assessments completed for Redbank Communities

Archaeological assessments have taken place on parcels of land which abut the present study area prior to residential development. The location of these assessments is shown below in Figure 4 and Figure 5. Copies of these assessments were provided to Artefact to inform the preparation of this Due Diligence. Archaeological literature consulted to inform the preparation of this Due Diligence is listed below in Table 3.

Table 3: List of archaeological assessments consulted to inform the preparation of this due diligence

Author, year	Title
Kelleher Nightingale Consulting Pty Ltd 2013.	Proposed Zoning Plan Report Update North Richmond Release Area- Redbank Aboriginal Heritage Assessment.
Kelleher Nightingale Consulting Pty Ltd 2016.	Redbank Housing Development North Richmond, NSW. Cultural Heritage Assessment Report.
NSW Office of Environment and Heritage 2016.	Issue of Aboriginal Heritage Impact Permit. Notice of the Issue of Aboriginal Heritage Impact Permit C0002175.
NSW Department of Planning, Industry and Environment 2020.	Variation of Aboriginal Heritage Impact Permit: Notice of Variation of Aboriginal Heritage Impact Permit No. C0002175.
Kelleher Nightingale Consulting Pty Ltd 2022.	Peel Park Upgrade Redbank, North Richmond NSW. Aboriginal Cultural Heritage Assessment.
NSW Department of Planning and Environment 2023.	Aboriginal Heritage Impact Permit 5048.

Summary

Review of archaeological assessments prepared for the development of Redbank Communities has identified that nine Aboriginal sites are situated in the areas assessed by Kelleher Nightingale Consultants Pty Ltd (KNC). These sites span a variety of landform features including elevated areas, mid slopes, moderately inclined slopes, gently inclined slopes and creek banks These sites are:

- NR1
- NR2
- NR3
- AHIMS ID 45-5-0516 (NR4)
- AHIMS ID 45-5-0512 (NR5)
- NR6
- AHIMS ID 45-5-4182 (NR8)
- AHIMS ID 45-5-4183 (NR9)
- AHIMS ID 45-5-5077 (NR-IA1-18)

Programmes of salvage excavation undertaken in NR4, NR8 and NR0IA1-18 established the presence of sub-surface deposits which exhibited limited levels of historical ground disturbance and stable intact soil deposits. Across these sites, artefact density ranged between low (23 artefacts per square metre) to high (94 artefacts per square metres). Frequent materials in the assemblages included tuff, silcrete and quartz. Less frequent materials included chert, Fine-grained siliceous material (FGS), quartzite, metastone, basalt and igneous materials. Radiocarbon dating from the upper 150 millimetres of NR4 yielded a date of 2418 years before present (yBP), however it is possible that substantially older dates may be retrieved from lower strata at depths of over 600 millimetres.

The assessments carried out by KNC determined that sites NR1, NR2, NR3, NR4 and NR6 are of high significance. Sites NR5 (northern portion), NR8 and NR-IA1-18, were assessed as being of moderate significance while sites NR5 (southern portion) and NR9 were assessed as being of low significance.

3.3 Public AHIP register search

A search of the Public AHIP register was undertaken on 30 April 2024 which identified that there are no active AHIPs within the present study area. There are two active AHIPs within the Redbank development area, which are outlined in Table 4 below.

Table 4: Current AHIPs within study area

AHIP	Project name	Applicant	Location	LGA	Expiration
C0002175	Redbank Housing Development, North Richmond	BD NSW (MR) PROJECT O007 PTY LTD	Portion of Lot 315 DP1199660, Redbank, North Richmond	City of Hawkesbury	06/10/2026
5048	Proposed Peel Park Upgrade, North Richmond- BS NSW (MR) Project o007 Pty Ltd- Hawkesbury- 16.12.22	BD NSW (MR) PROJECT O007 Pty Ltd	92A Pecks Road	City of Hawkesbury	06/03/2028

Figure 4: Map showing the location of land assessed by KNC in 2013. The location of the present study area is indicated with a red arrow (KNC 2013: 3 with annotation by Artefact)



Figure 5: Map showing the location of land assessed by KNC in 2022. The location of the present study area is indicated with a red arrow (KNC 2022: 6 with annotation by Artefact)



4.0 VISUAL INSPECTION

Visual inspection of the study area was undertaken on 2 May 2024. In attendance were Jonny Love (Heritage Consultant) and Emma Jones (Heritage Consultant). Pedestrian inspection was completed, and a photographic record was kept, using a scale where appropriate. A non-differential GPS was used to record points where required.

The study area is located in a landscape characterised by moderately inclined slopes with incised valleys. The valleys are incised by first and second order tributaries of Redbank Creek, which have been dammed as part of the Keyline Dam System (Figure 6). Alluvial terraces adjacent to these watercourses are very gently inclined (Figure 7). A large spur traverses the study area on the north east - south west axis, which comes off the ridge line now traversed by Grose Vale Road. The spur affords vast views to the north west, north and east (Figure 8 and Figure 9).

Overall, ground visibility was low due to grass cover across much of the study area. Nonetheless, intact soil deposits were identified across the study area. Exposed ground surfaces were identified in areas where grass cover was sparse and in erosion gullies where exposed sections were present.

Deep soil deposits were present, in some areas over a metre in depth on alluvial terraces and in low-lying parts of the study area. Depositional stratigraphy consisted of a thin layer of brown silt with infrequent ironstone inclusions. This overlay an orange sandy silt deposit with frequent gravels and ironstone fragments (Figure 10 and Figure 11)

One new site was identified during the visual inspection (Redbank Kemsley Park Artefact 01), consisting of a surface artefact. A broken flake of white mudstone was identified on an area of ground exposure adjacent to an erosion gully (Figure 12 and Figure 13). It is likely that a sub-surface artefact bearing deposit is present in the area surrounding the location of the surface artefact. Details on this site are presented below in Table 5 and Figure 15.

Numerous mature trees with potential to contain evidence of cultural modification (Scarring and Carving) are present across the study area. In addition, there is potential for sub-surface deposits to be present throughout the study area as deep, intact soil profiles were identified in numerous locations.

The visual inspection undertaken identified one Aboriginal object. The visual inspection identified that there is potential for further Aboriginal objects to be present throughout the study area.

Table 5: Redbank Kemsley Park Artefact 01 site details

Site name	Redbank Kemsley Park Artefact 01
AHIMS ID	45-5-5843
Site feature	Artefact
Length	1 metre
Width	1 metre
Zone	56H
Easting	286142
Northing	6282048
Horizontal accuracy	5 metres
Location method	Non-differential unit
Landform pattern	Rolling slopes
Landform unit	Alluvial terrace
Land use	Pastoral

Vegetation	Cleared
Distance to water	300 metres
Directions to site	The site is located at 322 Grose Vale Road, Grose Vale (Lot 260/-/ 1237271) in the eastern corner of the parcel of land.
Description of features	One surface artefact of white mudstone was identified on an area of exposed ground surface. The artefact is a proximal fragment measuring 19 by 19 by 5 millimetres (Lx W x Th). Terrestrial cortex is present on the platform.
Site interpretation	The site is located adjacent to an erosion gully where an intact natural deposit is present to a depth that likely exceeds 600 millimetres. It is likely that a subsurface deposit is present in the area surrounding the surface artefact.
Site condition	Good
Open/closed site	Open
Restrictions	None

Figure 6: Moderately inclined slope landform with incised drainage channel



Figure 8: Looking north across the spur



Figure 7: Alluvial terraces adjacent to an unnamed tributary of Redbank Creek



Figure 9: Views to the north west, north and east from the spur



Figure 10: Exposed natural deposit in the south of the study area



Figure 11: Exposed natural deposit in the east of the study area



Figure 12: Ventral face of the artefact identified during visual inspection (AHIMS ID 45-5-5843)



Figure 13: Location of the surface artefact in an erosion gully



Figure 14: Representative sample of mature vegetation present across the study area



Figure 15: Map showing the location of Redbank Kemsley Park Artefact 01 (AHIMS ID 45-5-5843)



5.0 ABORIGINAL POTENTIAL OF THE STUDY AREA

Archaeological potential is closely related to levels of ground disturbance. However, other factors are also taken into account when assessing archaeological potential, such as whether the area is within a sensitive landform unit.

5.1 Archaeological sensitive landforms

Particular landforms in NSW are known to have been favoured locations for repeated or long-term occupation and, hence, more likely to retain archaeological evidence of past Aboriginal use. The Due Diligence Code of Practice identifies five landscape features that indicate the likely existence of Aboriginal objects. These include:

-
- *Within 200m of water, or*
 - *Located within a sand dune system, or*
 - *Located on a ridge top, ridge line, or headland, or*
 - *Located within 200m below of a cliff face, or*
 - *Within 20m of or in a cave, rock shelter, or cave mouth (Environment 2010)*
-

The study area is present within two of these landform features as defined by the Due Diligence Code of Practice. Since the study area is traversed by numerous first and second order watercourses, much of the study area is located within 200 metres of water. Additionally, the study area contains a large spur formation. This ridge runs from north east to south west and affords significant views of the surrounding region.

Background literature consulted identified that landform features such as elevated landforms and slope landforms in the local area have been found to contain Aboriginal objects. Excavations undertaken in adjoining properties in soil profiles comparable to those identified during visual inspection have recovered artefact assemblages of medium to high density.

Visual inspection confirmed that no previously registered AHIMS sites are present within the study area. One new site was identified during visual inspection, Redbank Kemsley Park Artefact 01.

Table 6: Summary of landforms in the study area

Landscape Feature	Presence in study area
Within 200m of water	Yes. The study area is traversed by first and second order tributaries of Redbank Creek.
Located within a sand dune system	No
Located on a ridge top, ridge line, or headland	Yes. There is a large spur formation which runs through the study area

Landscape Feature	Presence in study area
Located within 200m below of a cliff face	No
Within 20m of or in a cave, rock shelter, or cave mouth (Environment 2010)	No

5.2 Ground disturbance

Archaeological potential is closely related to levels of ground disturbance. However, other factors are also taken into account when assessing archaeological potential, such as whether artefacts were located on the surface, and whether the area is within a sensitive landform unit according to the predictive statements. The Due Diligence Code of Practice defines disturbed land:

Sec 7.5 (4) For the purposes of this clause, land is disturbed if it has been the subject of human activity that has changed the lands surface, being changes that remain clear and observable.

This includes disturbed land via:

-
- (a) soil ploughing*
 - (b) construction of rural infrastructure*
 - (c) clearing of vegetation*
 - (e) construction of buildings and the erection of other structures*
 - (f) construction or installation of utilities and other similar services (such as above or below ground electrical infrastructure, water or sewerage pipelines, stormwater drainage and other similar infrastructure)*
-

Observed ground disturbance consisted of vegetation clearance and minor landform modification to facilitate the construction of the keyline system consisting of dam construction and the construction of contour banks along the hill slopes. While these activities may have reduced the integrity of any sites which are likely to be present in the study area, they are unlikely to have removed Aboriginal objects from the study area. This is demonstrated by the identification of one new site during the site visit (Redbank Kemsley Park Artefact 01, AHIMS ID 45-5-5843), indicating that Aboriginal objects survive in the study area despite the observed low levels of historical ground disturbance.

6.0 THE DUE DILIGENCE PROCESS

The Due Diligence Code of Practice provides a series of questions that must be answered to determine the outcome of the due diligence process. These questions are addressed in Table 7.

Table 7: Due Diligence questions and responses

Question	Answer	Comment
Will the activity disturb the ground surface or any culturally modified trees	Yes	This due diligence has been prepared in support of a rezoning application ahead of residential development. No impacts will occur as a result of rezoning however, ground disturbance will take place during subsequent phases of development.
Are there any: <ul style="list-style-type: none"> Confirmed AHIMS records Other sources of information Landscape features 	Yes	<p>No previously registered AHIMS sites are within the study area. One new AHIMS site (Kemsley Park Redbank Artefact 01, AHIMS ID 45-5-5843) has been identified in the study area. This site was identified during visual inspection.</p> <p>Two landform features indicating the presence of Aboriginal objects, as defined by the Due Diligence Code of Practice, are present in the study area - land within 200 metres of water and ridgeline.</p> <p>Deep, intact soil deposits were identified throughout the study area. Previous excavations in adjoining properties have recovered medium and high density artefactual deposits from such landscapes.</p>
Can harm to Aboriginal objects be avoided	No	Development subsequent to rezoning would harm Kemsley Park Redbank Artefact 01 (AHIMS ID 45-5-5843). Harm to identified areas of Aboriginal archaeological potential would also occur as a result of the proposed development.
Does a desktop assessment and visual inspection confirm the presence of Aboriginal objects, or that they are likely to be there	Yes	Visual inspection identified one site (Kemsley Park Redbank Artefact 01). Visual inspection identified that Aboriginal objects are likely to be present throughout the entire study area.
Is further assessment required	Yes	Further archaeological assessment must be undertaken.

7.0 CONCLUSION

The following conclusions and recommendations regarding Aboriginal heritage are based on consideration of:

- Statutory requirements under the NPW Act as amended
- DECCW Due Diligence Code of Practice
- Background literature consulted during the preparation of this Due Diligence
- The results of the AHIMS search and visual inspection
- The likely impacts of the proposed development.

It was found that:

- One site was identified during visual inspection, Kemsley Park Redbank Artefact 01 (AHIMS ID 45-5-5843)
- There is potential for Aboriginal objects to be present across the entire study area, including but not limited to, Culturally Modified Trees, surface artefacts and subsurface artefact-bearing deposits
- The proposed rezoning would not impact identified Aboriginal objects or areas of archaeological potential, however, subsequent stages of development would harm Aboriginal objects in the study area.

The following recommendations are therefore made:

- Aboriginal objects are present within the study area. It is likely that further Aboriginal objects are present in the study area which were not identified during Due Diligence. A full archaeological assessment must be undertaken to identify if Aboriginal objects would be harmed by the proposed development
- This assessment must comply with the requirements of the *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales* (DECCW 2010) by completing:
 - Review of existing knowledge: Review of previous archaeological works completed within the local and regional area
 - Review of the landscape context: Desktop assessment of the archaeological implications of the landscape features (soil landscapes, historic land use, geomorphic character, and natural resources) relevant to the study area
 - Summary and discussion of the local and regional archaeological character of Aboriginal land use and its material traces based on the finds of the previous two steps
 - Development of a predictive model for the nature and distribution of archaeological evidence of Aboriginal land use based on the previous three steps
 - Archaeological survey to test the prediction developed in the previous step. Survey of the study area would include the involvement of a site officer representing the Deerubbin Local Aboriginal Land Council (LALC). It is

anticipated that the Deerubbin LALC would prepare a brief report to be appended to and summarised within the report

- Discussion of the results of the archaeological survey and re-evaluation of the regional and local archaeological character
- Assessment of likely impacts to Aboriginal objects and Potential Archaeological Deposits (PADs) based on the current design plans
- Assess likely impacts and provide recommendations for any practical measures that may be required to protect and conserve identified Aboriginal objects and places identified within the study area
- If the proposed project cannot avoid harming Aboriginal objects, an AHIP must be in place before any works proceed. All works must comply with the conditions of any AHIP issued.

8.0 References

Kelleher Nightingale Consulting Pty Ltd (KNC) 2013. *Proposed Zoning Plan Report Update North Richmond Release Area- Redbank Aboriginal Heritage Assessment*.

KNC 2016. *Redbank Housing Development North Richmond, NSW. Cultural Heritage Assessment Report*. Report prepared for North Richmond Joint Venture.

KNC 2022. *Peel Park Upgrade, Redbank, North Richmond NSW. Aboriginal Cultural Heritage Assessment*. Report prepared for Redbank Communities.

NSW Office of Environment and Heritage (OEH) 2010. *Due Diligence Code of Practice for the Protection of Aboriginal Objects on New South Wales*.

OEH 2016. *Issue of Aboriginal Heritage Impact Permit. Notice of the Issue of Aboriginal Heritage Impact Permit C0002175*.

NSW Department of Planning, Industry and Environment (DPIE) 2020. *Variation of Aboriginal Heritage Impact Permit: Notice of Variation of Aboriginal Heritage Impact Permit No. C0002175*.

NSW Department of Planning and Environment 2023. *Aboriginal Heritage Impact Permit 5048*.

APPENDIX A: AHIMS EXTENSIVE SEARCH



AHIMS Web Services (AWS) Extensive search - Site list report

Your Ref/PO Number : 240137 Redbank Kemsley
Client Service ID : 884531

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
45-5-0432	Agnes Banks 3 Brooks Lane	AGD	56	287180	6276940	Open site	Valid	Artefact : -	Open Camp Site	407,528,1018
	Contact	Recorders								
			Jim Kohen							
45-5-0443	Yarramundi 2 Richmond	AGD	56	285110	6277590	Open site	Valid	Artefact : -	Open Camp Site	1018
	Contact	Recorders								
			G Happ							
45-5-0259	North Richmond	AGD	56	287811	6280496	Open site	Valid	Grinding Groove : -	Axe Grinding Groove	260,1018
	Contact	Recorders								
			Charles.D Power							
45-5-4191	NR11	GDA	56	286546	6281745	Open site	Destroyed	Artefact : 1		
	Contact	Recorders								
			Kayandel Archaeological Services							
45-5-4651	Yarramundi 8	GDA	56	285453	6278006	Open site	Valid	Artefact : 1		3542
	Contact	Recorders								
			Kelleher Nightingale Consulting Pty Ltd							
45-5-4652	Yarramundi 9	GDA	56	285905	6278320	Open site	Valid	Artefact : 1		
	Contact	Recorders								
			Kelleher Nightingale Consulting Pty Ltd							
45-5-4653	Yarramundi 10	GDA	56	286053	6278981	Open site	Valid	Artefact : 1		
	Contact	Recorders								
			Kelleher Nightingale Consulting Pty Ltd							
45-5-0515	NR 3 Axe Grinding Grooves	AGD	56	286560	6282410	Open site	Valid	Grinding Groove : -	Axe Grinding Groove	1018
	Contact	Recorders								
			Mary Dallas Consulting Archaeologists (MDCA)							
45-5-0283	Agnes Banks;Yarramundi;	AGD	56	286576	6278094	Open site	Valid	Artefact : -	Open Camp Site	260,1018
	Contact	Recorders								
			Jim Kohen							
45-5-0228	Grose Wold	AGD	56	283934	6277585	Open site	Valid	Grinding Groove : 2	Axe Grinding Groove	
	Contact	Recorders								
			Mr.R Taplin							
45-5-2808	Yarramundi 4	AGD	56	285040	6277250	Open site	Valid	Artefact : -		98202
	Contact	Recorders								
			Doctor.Jo McDonald							
45-5-5602	Mountain Avenue fire trail BMNP Entry 1	GDA	56	281576	6277350	Open site	Valid	Artefact : -		
	Contact	Recorders								
			Mr.David Monahan,DPIE - Armidale							
45-5-5611	Mountain Ave Lower Lookout	GDA	56	281560	6277346	Open site	Valid	Artefact : -		
	Contact	Recorders								
			DPIE - Armidale,Ms.Jessica Wardhaugh							
52-2-0851	Wilton Allens Creek Bridge Site 8	AGD	56	288420	6279900	Closed site	Valid	Art (Pigment or Engraved) : -	Shelter with Art	384,1738
	Contact	Recorders								
			Mary Dallas Consulting Archaeologists (MDCA)							
45-5-0229	Grose Wold Agnes Banks	AGD	56	285214	6277610	Open site	Valid	Grinding Groove : 9	Axe Grinding Groove	
	Contact	Recorders								
			Mr.R Taplin							
45-5-0511	NR 7 Axe Grinding Grooves North Richmond/ Grose Wold	AGD	56	285000	6282340	Open site	Valid	Grinding Groove : -	Axe Grinding Groove	1018
	Contact	Recorders								
			Mary Dallas Consulting Archaeologists (MDCA)							

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AHIMS Web Services (AWS)
Extensive search - Site list report

Your Ref/PO Number : 240137 Redbank Kemsley

Client Service ID : 884531

SiteID	SiteName	Datum	Zone	Eastings	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
45-5-0512	NR 5 Open Camp Site North Richmond/ Grose Wold	GDA	56	285954	6282389	Open site	Partially Destroyed	Artefact : -	Open Camp Site	1018
	Contact	Recorders	Mary Dallas Consulting Archaeologists (MDCA),Kelleher Nightingale Consulting Pty				Permits	4024		
45-5-0525	Yarramundi YM/1 Kurrajong	AGD	56	286560	6278240	Open site	Valid	Artefact : -	Open Camp Site	1018
	Contact	Recorders	Jim Kohen				Permits			
45-5-0226	Grose Wold Agnes Banks Abrasions Cave	AGD	56	284938	6277696	Closed site	Valid	Artefact : -, Art (Pigment or Engraved) : -	Shelter with Art,Shelter with Deposit	
	Contact	Recorders	Mr.R Taplin				Permits			
45-5-4100	Restriction applied. Please contact ahims@environment.nsw.gov.au.					Open site	Destroyed			103008
	Contact	Recorders	Matthew Kelleher,Kelleher Nightingale Consulting Pty Ltd,Mr.Josh Symons				Permits	3542		
45-5-0343	Grose Wold 3	AGD	56	282200	6278550	Open site	Not a Site	Artefact : -	Not an Aboriginal Site	260,658,1018
	Contact	Recorders	Rex Silcox				Permits			
45-5-0344	Grose Wold (Grose Wold 4)	AGD	56	282050	6278250	Open site	Valid	Artefact : -	Open Camp Site	260,658,1018
	Contact	Recorders	Rex Silcox				Permits			
45-5-0345	Grose Wold 5	AGD	56	282050	6278250	Open site	Valid	Artefact : -	Open Camp Site	260,658,1018
	Contact	Recorders	Rex Silcox				Permits			
45-5-0367	Agnes Banks Agnes Banks 1	AGD	56	287967	6277114	Open site	Valid	Artefact : -	Open Camp Site	1018
	Contact	Recorders	Jim Kohen				Permits	418		
45-5-5603	Mountain Avenue fire trail middle Grose River lookout	GDA	56	279787	6277418	Open site	Valid	Artefact : -		
	Contact	Recorders	Mr.David Monahan,DPIE - Armidale				Permits			
45-5-5572	Grose River Bridge AFT 1	GDA	56	285555	6278481	Open site	Valid	Artefact : -		
	Contact	Recorders	Mr.Matthew Kelleher,Kelleher Nightingale Consulting Pty Ltd (Generic users)				Permits			
45-5-0241	Little Wheeney (Creek)	AGD	56	284112	6287285	Open site	Valid	Artefact : -	Open Camp Site	639,681
	Contact	Recorders	Unknown Author				Permits			
45-5-2478	Beaumont Ave (BA-OS-1)	AGD	56	288750	6281670	Open site	Valid	Artefact : -	Open Camp Site	
	Contact	Recorders	Mr.Phil Hunt				Permits			
45-5-0235	Little Wheeney Creek	AGD	56	284204	6287287	Open site	Valid	Artefact : -	Open Camp Site	639,681
	Contact	Recorders	Unknown Author				Permits			
45-5-0510	NR 6 Axe Grinding Grooves North Richmond/ Grose Wold	AGD	56	285590	6282300	Open site	Valid	Grinding Groove : -	Axe Grinding Groove	1018
	Contact	Recorders	Mary Dallas Consulting Archaeologists (MDCA)				Permits			
45-5-0514	NR 2 Axe Grinding Grooves North Richmond/ Grose Wold	AGD	56	286600	6283370	Open site	Valid	Grinding Groove : -	Axe Grinding Groove	1018
	Contact	Recorders	Mary Dallas Consulting Archaeologists (MDCA)				Permits			
45-5-0368	Yarramundi;Yarramundi 2;	AGD	56	287776	6277568	Open site	Valid	Artefact : -	Open Camp Site	1018
	Contact	Recorders	Jim Kohen				Permits	418		

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AHIMS Web Services (AWS)
Extensive search - Site list report

Your Ref/PO Number : 240137 Redbank Kemsley

Client Service ID : 884531

SiteID	SiteName	Datum	Zone	Eastings	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
45-5-0342	Grose Wold 2	AGD	56	282200	6279000	Closed site	Valid	Artefact :-	Shelter with Deposit	260,658,1018
	Contact									
	Recorders			Rex Silcox						
	Permits									
45-5-0346	Grose Wold 6	AGD	56	280913	6277710	Open site	Valid	Artefact : 2	Open Camp Site	260,658,1018
	Contact									
	Recorders			Rex Silcox						
	Permits									
45-5-2809	Yarramundi 5	AGD	56	285170	6277320	Open site	Valid	Artefact :-		98202
	Contact									
	Recorders			Doctor Jo McDonald						
	Permits									
45-5-4182	NR 8	GDA	56	286265	6282318	Open site	Destroyed	Artefact : 1		
	Contact									
	Recorders			Kelleher Nightingale Consulting Pty Ltd, Kelleher Nightingale Consulting Pty Ltd, Mi					Permits	4024
	Permits									
45-5-4183	NR 9	GDA	56	286477	6281736	Open site	Destroyed	Artefact : 2		
	Contact									
	Recorders			Kelleher Nightingale Consulting Pty Ltd, Kelleher Nightingale Consulting Pty Ltd, Mi					Permits	4024
	Permits									
45-5-5612	Mountain Ave Firetrail BMNP entry 2	GDA	56	281559	6277340	Open site	Valid	Artefact :-		
	Contact									
	Recorders			DPIE - Armidale, Ms. Jessica Wardhaugh					Permits	
	Permits									
45-5-5239	Markwell Place AFT 1	GDA	56	288331	6278754	Open site	Valid	Artefact :-		
	Contact									
	Recorders			Kelleher Nightingale Consulting Pty Ltd, Ms. Cristany Milicich					Permits	
	Permits									
45-5-0652	HB14	AGD	56	290260	6277750	Open site	Valid	Artefact :-	Open Camp Site	1380
	Contact									
	Recorders			Laura-Jane Smith					Permits	
	Permits									
45-5-5077	NR-1A1-1B	GDA	56	286926	6282304	Open site	Valid	Artefact :-		
	Contact									
	Recorders			Mr. Geordie Oakes, AECOM Australia Pty Ltd - Sydney, Mr. Matthew Kelleher, Kelleher					Permits	5048
	Permits									
45-5-3207	Quarry Shelter and Art Site	AGD	56	281350	6278700	Closed site	Valid	Art (Pigment or Engraved) : 1, Habitation Structure : 1		
	Contact									
	Recorders			Mr. David Monahan					Permits	
	Permits									
45-5-4650	Yarramundi 7	GDA	56	285628	6278181	Open site	Valid	Artefact : 1		
	Contact									
	Recorders			Kelleher Nightingale Consulting Pty Ltd					Permits	
	Permits									
45-5-5571	Grose River Bridge AFT 2	GDA	56	285693	6278266	Open site	Valid	Artefact :-		
	Contact									
	Recorders			Mr. Matthew Kelleher, Kelleher Nightingale Consulting Pty Ltd (Generic users)					Permits	
	Permits									
45-5-3117	Yarramundi 6	AGD	56	285000	6277250	Open site	Valid	Artefact : 1, Grinding Groove : 4		
	Contact									
	Recorders			Colin Gale					Permits	
	Permits									
45-5-0433	Agnes Banks 5	AGD	56	286710	6276750	Open site	Valid	Artefact :-	Open Camp Site	407,528,1018
	Contact									
	Recorders			Jim Kohlen					Permits	
	Permits									
45-5-0633	Tabaraga Ridge 1	AGD	56	279790	6286950	Open site	Valid	Grinding Groove : -	Axe Grinding Groove	582
	Contact									
	Recorders			K Perrin					Permits	
	Permits									
45-5-0227	Grose Wold Agnes Banks Two Flakes Cave	AGD	56	284938	6277696	Closed site	Valid	Artefact : 2, Art (Pigment or Engraved) :-	Rock Engraving Shelter with Deposit	
	Contact									
	Recorders									
	Permits									

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AHIMS Web Services (AWS)
Extensive search - Site list report

Your Ref/PO Number : 240137 Redbank Kemsley

Client Service ID : 884531

SiteID	SiteName	Datum	Zone	Eastings	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
	Contact	Recorders	Mr.R Taplin					Permits	28	
45-5-0242	Little Wheeney Creek (Windsor)	AGD	56	284390	6287107	Closed site	Valid	Artefact : -	Shelter with Deposit	639,681
	Contact	Recorders	Unknown Author					Permits		
45-5-0516	NR 4 Open Camp Site North Richmond/ Grose Wold	GDA	56	286705	6282380	Open site	Partially Destroyed	Artefact : -	Open Camp Site	1018
	Contact	Recorders	Mary Dallas Consulting Archaeologists (MDCA),Kelleher Nightingale Consulting Pty					Permits	4024	
45-5-0341	Grose Wold Grose Wold 1	AGD	56	282700	6279400	Open site	Valid	Artefact : -, Stone Arrangement : -	Open Camp Site,Stone Arrangement	260,658,1018
	Contact	Recorders	Rex Silcox					Permits		
45-5-5541	Terrace Road Hawkesbury River AFT 1	GDA	56	288945	6282254	Open site	Valid	Artefact : -		
	Contact	Recorders	Mr.Matthew Kelleher,Kelleher Nightingale Consulting Pty Ltd (Generic users)					Permits	4940	
45-5-0444	Yarramundi 1 Richmond	AGD	56	285780	6277770	Open site	Valid	Artefact : -	Open Camp Site	1018
	Contact	Recorders	G Happ					Permits		
45-5-0236	Kurrajong North Richmond	AGD	56	283080	6283880	Open site	Valid	Grinding Groove : -	Axe Grinding Groove	639,681
	Contact	Recorders	B Ross					Permits		
45-5-0244	Little Wheeney Creek-Windsor	AGD	56	284204	6287287	Open site	Valid	Artefact : -	Open Camp Site	639,681,1018
	Contact	Recorders	Unknown Author					Permits		
45-5-0513	NR 1 Axe Grinding Grooves North Richmond/ Grose Wold	AGD	56	286600	6282360	Open site	Valid	Grinding Groove : -	Axe Grinding Groove	1018
	Contact	Recorders	Mary Dallas Consulting Archaeologists (MDCA)					Permits		
45-5-1062	Richmond Markerplace 1;RM 1;	AGD	56	291260	6279650	Open site	Valid	Artefact : -	Open Camp Site	
	Contact	Recorders	Doctor.Jo McDonald					Permits	838,963	
45-5-2810	Yarramundi 3	AGD	56	285050	6277190	Open site	Valid	Artefact : -		98202
	Contact	Recorders	Doctor.Jo McDonald					Permits		
45-5-5542	Norfolk Place Hawkesbury River AFT 1	GDA	56	289037	6282141	Open site	Valid	Artefact : -		
	Contact	Recorders	Mr.Matthew Kelleher,Kelleher Nightingale Consulting Pty Ltd (Generic users)					Permits	4940	
45-5-5543	Terrace Road Redbank Creek AFT 1	GDA	56	288188	6282471	Open site	Valid	Artefact : -		
	Contact	Recorders	Mr.Matthew Kelleher,Kelleher Nightingale Consulting Pty Ltd (Generic users)					Permits	4940	
45-5-0651	HB13	AGD	56	290300	6277670	Open site	Valid	Artefact : -	Open Camp Site	1380
	Contact	Recorders	Laura-Jane Smith					Permits		

**** Site Status**

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

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

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

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

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