

Aboriginal Objects Due Diligence Assessment Employment Land Rezoning – Technical Study - Bargo Bargo, NSW 2574

Prepared for Wollondilly Shire Council

Prepared by Niche Environment and Heritage | 8 August 2022



A leading independent specialist environmental and heritage consultancy

8 August 2022

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Dear Chandran,

**Re: Employment Land Rezoning – Technical Study - Bargo – Aboriginal Objects Due Diligence Assessment
(Niche ref: #7244)**

Based on this Aboriginal Objects Due Diligence Assessment (DD), the desktop assessment and the results of the site inspection identified high levels of disturbance and modification to the ground surface within the majority of the Activity Area. Historic vegetation clearance and the use of land for residential and agricultural practices has lowered the potential for in situ archaeological remains in most of the Activity Area. However, some areas within the Activity Area have not been subjected to historical vegetation clearance and disturbance, and therefore have a higher potential for in situ archaeological remains in the Activity Area.

The site inspection of four properties and the visual inspection of one property did not identify any Aboriginal Objects within the Activity Area.

The Due Diligence Code states that where a DD has occurred and concluded that Aboriginal Objects occur or are likely to occur, further detailed investigation and impact assessment is required. If following this detailed investigation and impact assessment, it is determined that harm will occur to Aboriginal Objects, then an AHIP application is required.

It is recommended that:

- An Aboriginal Cultural Heritage Assessment (ACHA) be prepared by a suitably qualified archaeologist in accordance with the Guide to Investigating, assessing reporting on Aboriginal cultural heritage in NSW (NSW Office of Environment and Heritage [OEH], 2011) and the Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW (DECCW, 2010c). The ACHA would be required to support an application for an AHIP under s.90 of the National Parks and Wildlife Act 1974 should Aboriginal Objects and/or sites be identified.
- The proposed ACHA should document Aboriginal community consultation carried out in accordance with the Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010 (DECCW, 2010b).

Please do not hesitate to contact me on **0488 774 501** or via email: cfreeman@niche-eh.com should you have any questions or would like to clarify details of this assessment.

Yours sincerely



Chelsea Freeman
Heritage Consultant
Niche Environment and Heritage

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1. Introduction

1.1 The Proponent

Niche Environment and Heritage Pty Ltd (Niche) was commissioned by Wollondilly Shire Council to undertake an Aboriginal Objects Desktop Due Diligence Assessment for a preliminary Employment Land Rezoning Proposal for fifteen (15) parcels of land in Bargo NSW currently zoned as RU1 – Primary Production and covering a total area of approximately 585,123 m² (hereafter referred to as the ‘Activity Area’, Figure 1 and Figure 2).

1.2 The Activity Area

1.2.1 Location

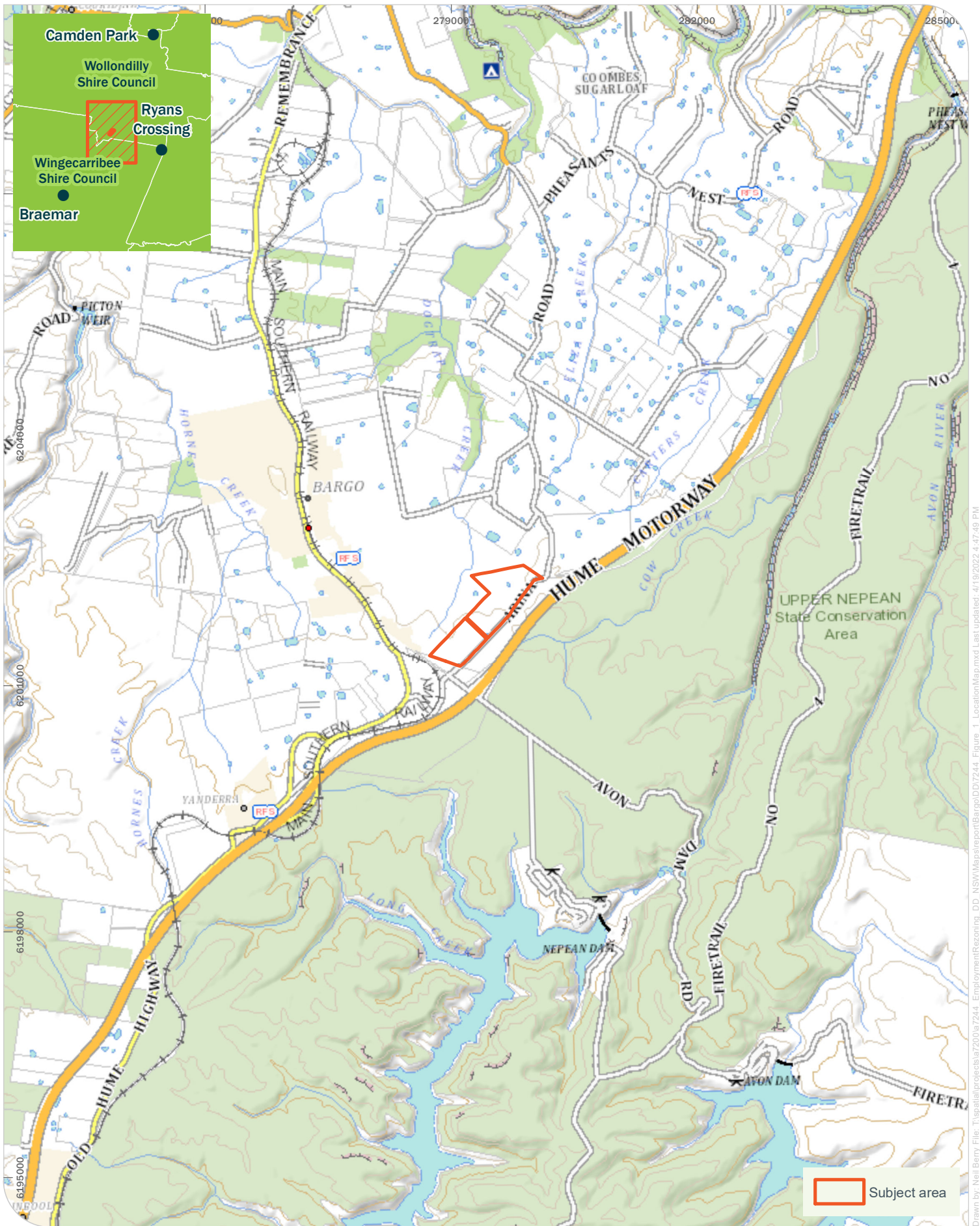
The Activity Area is located along Arina Road in Bargo, NSW and comprises of fifteen (15) parcels of land currently zoned as RU1 – Primary Production and covering a total area of approximately 585,123 m². An overview of the land parcels contained within the Activity Area are provided in Table 1 below. The Activity Area is situated in the Wollondilly Shire Council Local Government Area (LGA), within Camden County and within the boundaries of the Tharawal Local Aboriginal Land Council (LALC).

Table 1. Activity Area

| Lot DP | Address | Area (m ²) | Current Zoning |
|-----------------|------------------|------------------------|---------------------------------|
| Lot 23 DP 10196 | 560 Arina Rd | 42,792 | RU1 – Primary Production |
| Lot 24 DP 10196 | 570 Arina Rd | 36,786 | RU1 – Primary Production |
| Lot 25 DP 10196 | 580 Arina Rd | 44,600 | RU1 – Primary Production |
| Lot 26 DP 10196 | 590 Arina Rd | 52,187 | RU1 – Primary Production |
| Lot 27 DP 10196 | 600 Arina Rd | 60,968 | RU1 – Primary Production |
| Lot 28 DP 10196 | 610 Arina Rd | 37,241 | RU1 – Primary Production |
| Lot 29 DP 10196 | 620 Arina Rd | 36,251 | RU1 – Primary Production |
| Lot B DP 354366 | 630 Arina Rd | 18,254 | RU1 – Primary Production |
| Lot A DP 354366 | 636 Arina Rd | 18,199 | RU1 – Primary Production |
| Lot 31 DP 10196 | 115 Reservoir Rd | 38,446 | RU1 – Primary Production |
| Lot 32 DP 10196 | 120 Reservoir Rd | 38,235 | RU1 – Primary Production |
| Lot 33 DP 10196 | 660 Arina Rd | 36,606 | RU1 – Primary Production |
| Lot 34 DP 10196 | 670 Arina Rd | 36,735 | RU1 – Primary Production |
| Lot 35 DP 10196 | 680 Arina Rd | 37,028 | RU1 – Primary Production |
| Lot 36 DP 10196 | 690 Arina Rd | 50,795 | RU1 – Primary Production |
| Total | | 585,123 | RU1 – Primary Production |

1.3 The proposed activity

Wollondilly Shire Council are undertaking preliminary Environmental Impact Technical Studies as a precursor to the preparation of the Employment Land Rezoning Proposal for the Wollondilly Shire Council. The proposed activity will involve the rezoning of fifteen lots currently listed as RU1- Primary Production, approximately 60 ha, of which 70% as been identified as non-constrained. The Activity Area is proposed for industrial redevelopment due to the large property sizes and its proximity to the Hume Motorway.



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GDA 1994 MGA Zone 56

Niche PM: Chelsea Freeman
Niche Proj. #: 7244
Client: Wollondilly Shire Council

Location Map
Employment Land Rezoning - Bargo

Figure 1



1.4 Statutory controls

1.4.1 Aboriginal Objects Due Diligence Assessment

The *National Parks and Wildlife Act 1974* (NPW Act), administered by Heritage NSW of the Department of Premier and Cabinet (DPC), is the primary legislation for the protection of some aspects of Aboriginal cultural heritage in New South Wales (NSW). Part 6 of the NPW Act provides specific protection for Aboriginal Objects and declared Aboriginal Places by establishing offences of harm.

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 if they later unknowingly harm an object without an Aboriginal Heritage Impact Permit (AHIP).

Anyone proposing to carry out an activity that may harm an Aboriginal object or a declared Aboriginal place must investigate, assess, and report on the harm that may be caused by the activity they propose.

The *Due Diligence Code of Practice for the Protection of Aboriginal Objects* (DECCW, 2010) sets out a process for individuals and organisations to follow to determine whether an Aboriginal object will be harmed by an activity, whether further investigation is needed, and whether that harm requires an AHIP.

This report was undertaken in accordance with the *Due Diligence Code of Practice for the Protection of Aboriginal Objects in NSW* (DECCW, 2010).

1.5 Objectives

The aim of the assessment is to assess whether Aboriginal Objects and/or Places are present, or are likely to occur, within, or in close proximity to the Activity Area, where those places are and if those Aboriginal Objects and/or places may be impacted by the proposed works. This will determine whether further investigation is required.

1.6 Assessment methodology

This Aboriginal Objects Desktop Due Diligence Assessment follows the process outlined in Plate 1.

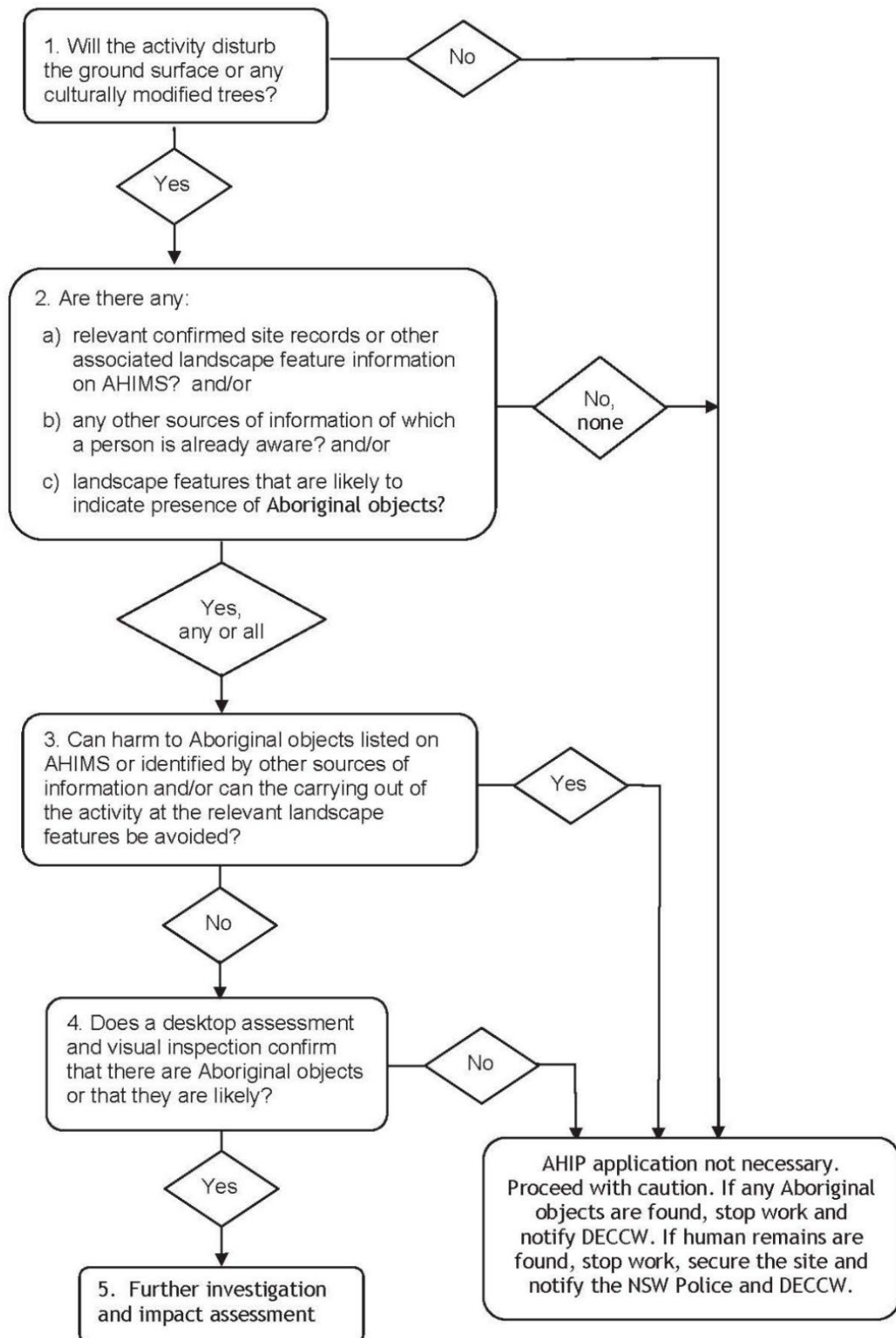


Plate 1: The due diligence assessment process

2. Environmental Context

2.1 Topography

The Activity Area is located within the Woronora Plateau, a physio-geographic region of the Sydney Basin. The plateau is an area of uplifted Hawkesbury sandstone which has been cut by deep creek gullies flowing north into the Georges River. The topography of the Activity Area is characterised by gently undulating plateau surfaces and ridges, 200-100 m wide, with gently inclined slopes with gradients of <10% and a local relief of 10-50 m.

2.2 Geology and soils

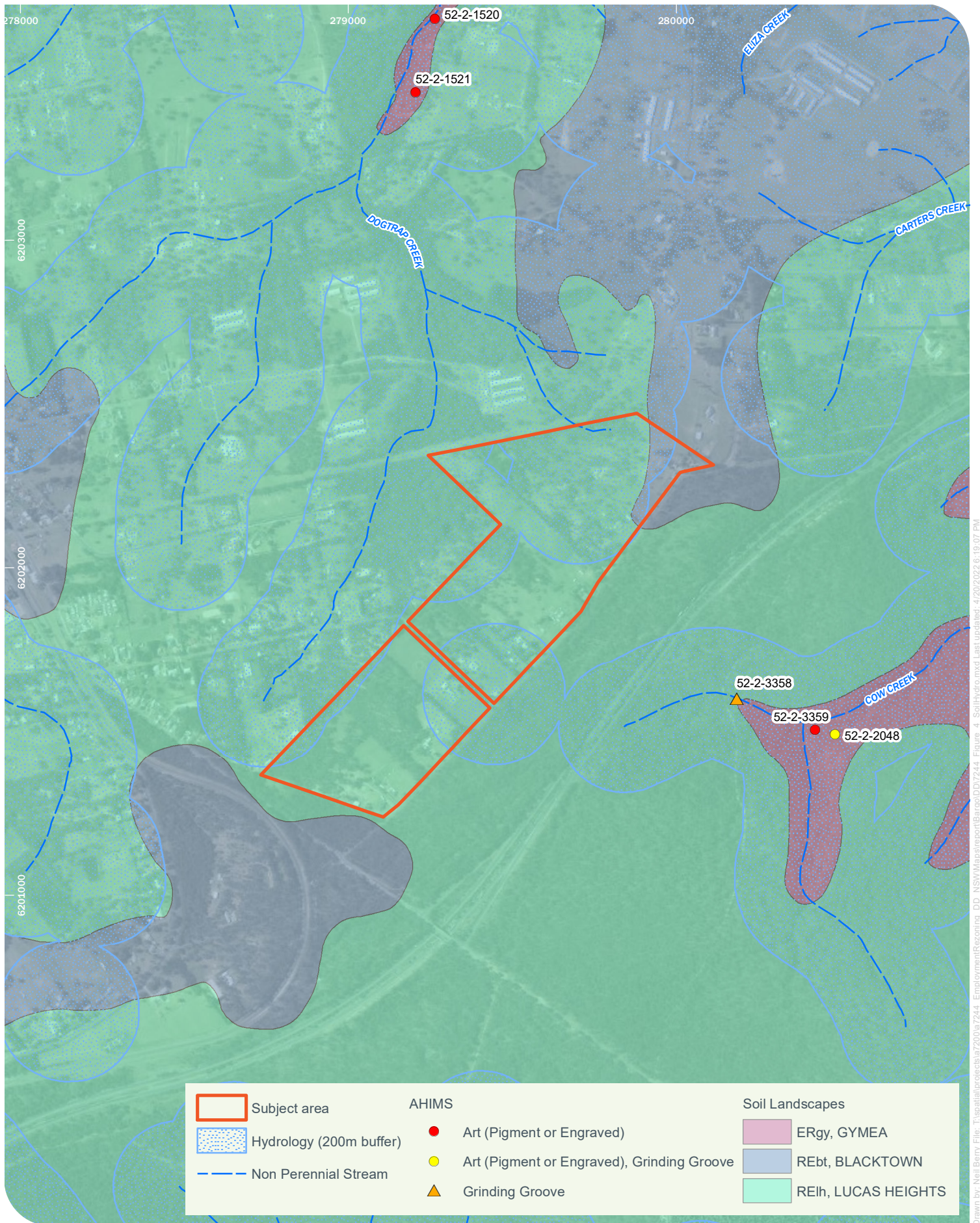
The Activity Area is largely characterised by the residual Lucas Heights soil landscape and consists of gently undulating crests, ridges, and plateau surfaces of the Mittagong Formation. The underlying geology of the Activity Area is the Mittagong Formation (alternating bands of shale and fine-grained sandstones) which is stratigraphically between the Ashfield Shale and Hawkesbury Sandstone. The Hawkesbury Sandstone geological unit is described as medium to coarse grain quartz sandstone with minor spatially constricted lenses of shale and laminate (Department of Planning 2021a). Soils within the landscape are moderately deep (50 – 150 cm), characterised by hard setting Yellow Podzolic Soils, yellow Soloths and Lateritic Podzolic Soils on ridges and plateau surfaces. Lateritic Podzolic Soils also occur on crests, Yellow Earths on shoulders of plateaux and ridges and Earthy Sands in valley flats (Department of Planning 2021a) (Figure 3).

The dominant soil materials within the Activity Area consist of a loose, greyish-brown fine sandy loam with common inclusions of iron-coated, platy, fine sandstone fragments and charcoal forming the A Horizon. A bleached yellow-orange sandy clay loam forms within the A2 Horizon with inclusions of rounded iron nodules and angular to sub-rounded stones. The B Horizon consists of yellowish-brown sandy clay loam with orange mottling and iron-coated sandstone fragment inclusions. Deeper soils consist of yellowish-brown sandy clay to heavy clay with yellow, red, and orange mottling. Inclusions of undisturbed, stratified bands of platy, iron-coated, fine sandstone fragments are common.

The Activity Area is located on the periphery of the Blacktown residual soil landscape within the north-eastern corner of the Activity Area. The Blacktown soil landscape features gently undulating rises on Wianamatta Group shales. This largely consists of Ashfield Shale (laminate and dark grey siltstone), Bringelly Shale (shale with occasional calcareous claystone, laminate, and infrequent coal), and Minchinbury Sandstone (consisting of fine to medium-grained quartz lithic sandstone). The dominate soil materials within the landscape consist of shallow to moderately deep (>100 cm) hardsetting mottled texture contrast soils. Red and brown Podzolic Soils occur on crests, grading to Yellow Podzolic Soils on lower slope and in drainage lines (DPIE, 2020). The topsoils (A horizon) consist of a friable brownish black loam to clay loam with the A2 horizon consisting of a brown clay loam to silty clay which is hardsetting. The lower B horizon consists of a brown light to medium clay with frequent red, yellow or grey mottling occurs within the soils and becomes more numerous with depth. The C horizon is made up of a plastic light grey silty clay to heavy clay which is a hardsetting basal clay with gravel-sized shale fragment inclusions.

2.3 Vegetation

The Activity Area has largely been cleared of any native vegetation due to urbanisation. Any remnants of vegetation surrounding the Activity Area includes extensively cleared eucalypt low open-forest and eucalypt low woodland with sclerophyllous shrub understorey. Within this landscape, dominant tree species include turpentine smooth-barked apple red bloodwood, silvertop ash, snappy gum and Sydney peppermint. Understorey species include black she-oak, blue mountains mallee ash and heath banksia.



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2.4 Hydrology

The closest water course is a first order non-perennial tributary (Strahler system) of Dogtrap Creek located approximately 100 m north-west of the Activity Area. This creek feeds into the Bargo River, a major perennial natural water course. A small unnamed non-perennial stream of Dogtrap Creek intersects the Activity Area in the northern corner of the Activity Area. Another non-perennial tributary of Cow Creek is seen approximately 300m south-east of the Activity Area, feeding into the Nepean River. This indicates that Dogtrap Creek and Cow Creek would likely provide two permanent options for sources of water near the Activity Area.

2.5 Past land use and disturbance

The Activity Area is located largely within a heavily subdivided urban area which has been historically extensively cleared and disturbed by farming, pastures, development, and urbanisation. Historically, past land-use included citrus orchards, market gardens and poultry farms. Grazing of horses and dairy cattle is common on improved, kikuyu-dominated pastures (Department of Planning 2021a).

Aerial imagery can provide further information about previous land-use and impact on the ground surface within the Activity Area. A review of historical aerial imagery shows that the Activity Area has been subjected to heavy disturbance prior to 1970 (Figure 4c). The 1998 (Figure 4b) and 2005 (Figure 4a) historical imagery of the Activity Area shows the continued clearance of vegetation for farming purposes and the further constriction of infrastructure in the form of homesteads and farming related infrastructure.

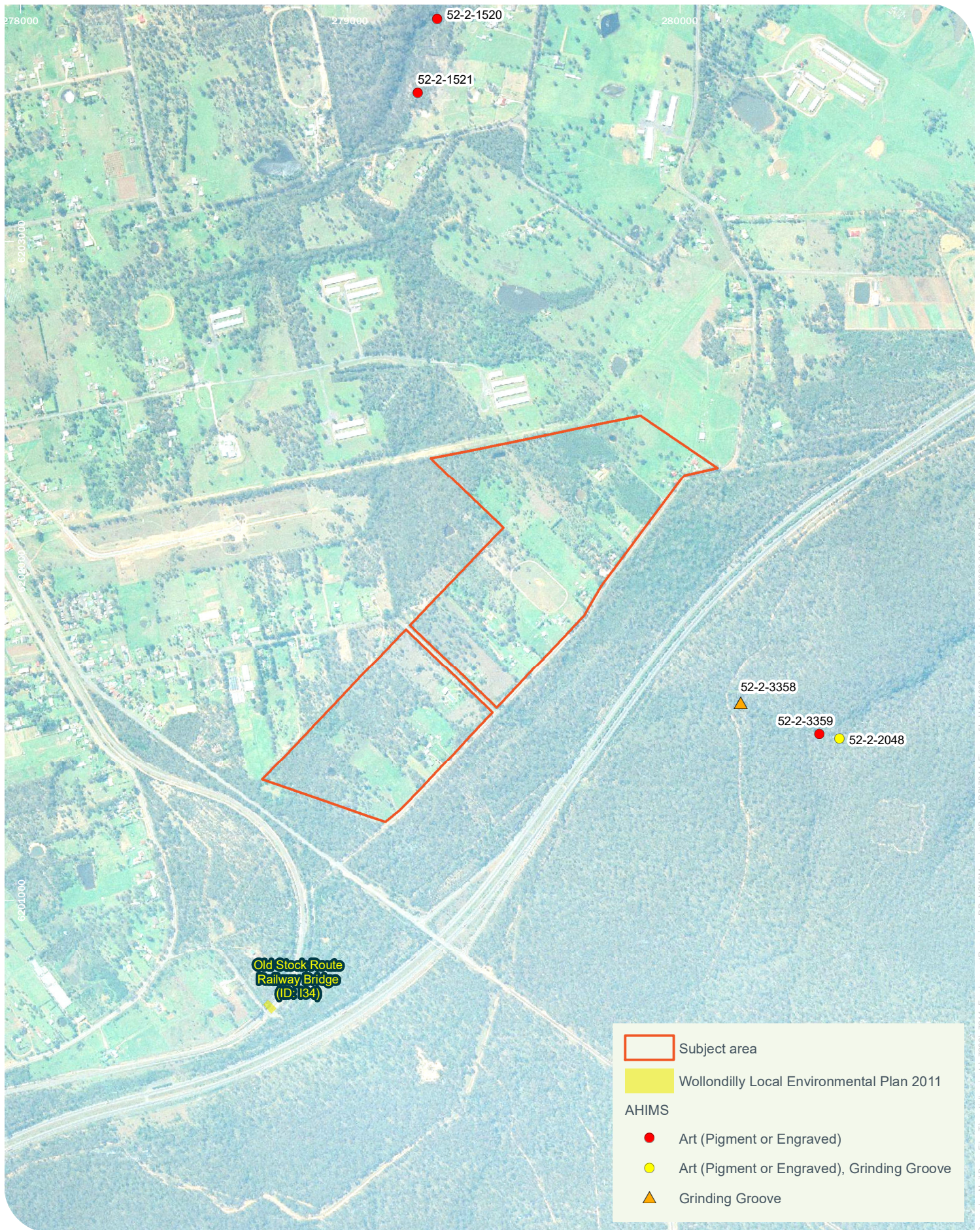
The majority of the Activity Area is within an area which meets the definition of 'Disturbed' under the Due Diligence Code.

2.6 Environmental Context Summary

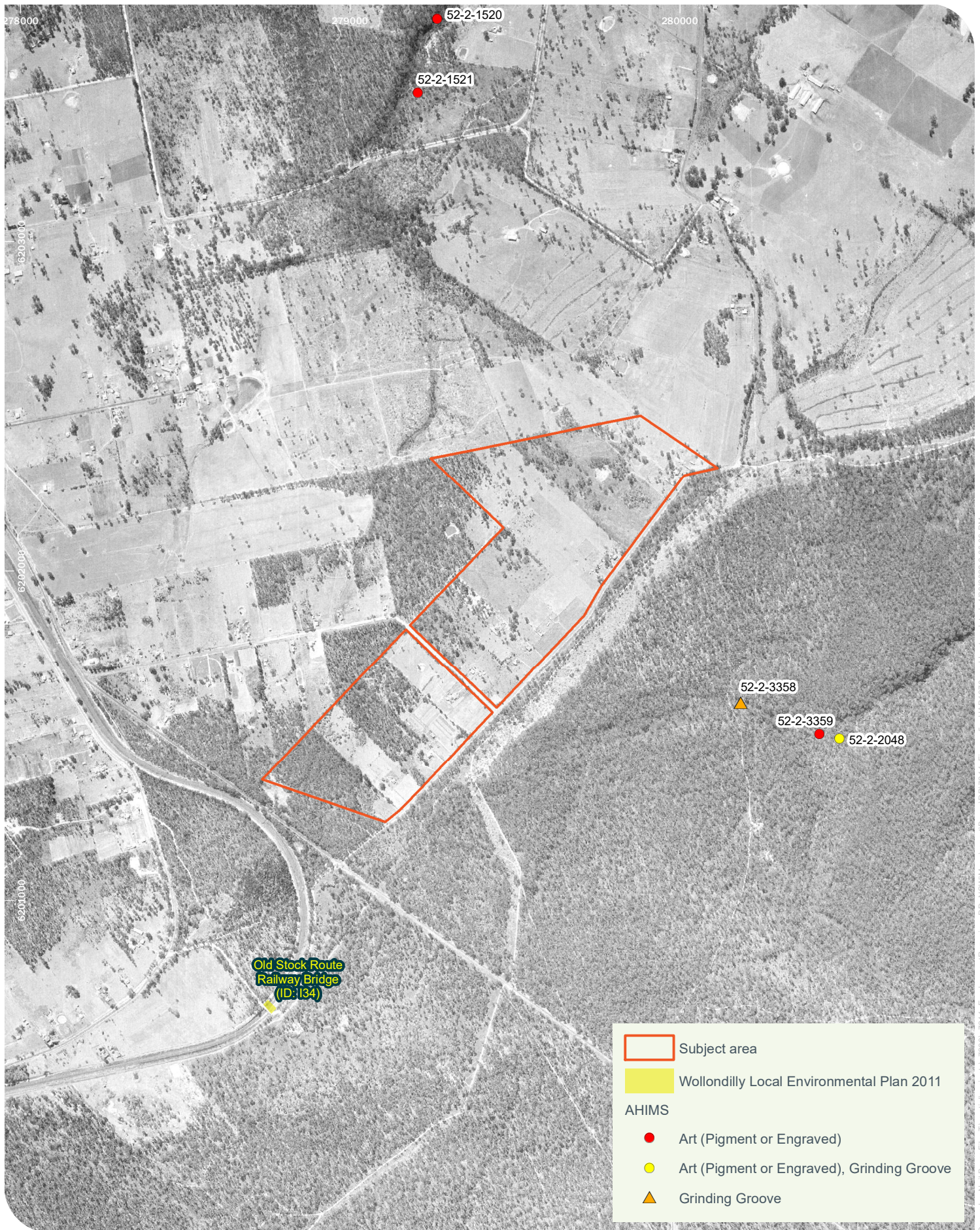
In summary, the overall context of the Activity Area provides a picture of a landscape that has been subject to significant levels of historical disturbance relating to the clearing of native and introduced vegetation, farming, and associated infrastructure. This suggests that any potential archaeology within the Activity Area will largely be disturbed. However, areas revealing limited or no historical disturbance may contain higher levels of sub-surface potential due to the soil profiles of the Activity Area indicating relatively deep A1 Horizon. This together with close proximity to water has the potential to reveal areas of high archaeological sensitivity. The geology of the Activity Area primarily consists of shales and fine-grained sandstone, neither source is conducive to tool production. This may limit the archaeological potential of the Activity Area. If stone tools are evident, they may be of a different material and therefore brought in from elsewhere.



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3. Aboriginal Objects due diligence assessment

Is the proposed activity a low impact activity as defined by the Regulation?

No.

The activity is not a low impact activity as defined under section 80B of the National Parks and Wildlife Regulation 2009 ('the Regulation') because:

- It involves earthworks associated with rezoning of land for industrial or light industrial use.

Step 1 - Will the activity disturb the ground surface or any Aboriginal culturally modified (scarred) trees?

Yes.

The proposed activity involves earthworks and vegetation clearance associated with the demolition of existing buildings and structures, tree removal and levelling of the land for industrial use. The proposed activity therefore has the potential to disturb Aboriginal Objects, if present. No trees hold signs of cultural modification within the area of the proposed works.

Step 2a -Are there any relevant confirmed site records or other associated landscape feature information on AHIMS?

No.

Heritage Registers

AHIMS

An extensive search of the Aboriginal Heritage Information Management System (AHIMS) was conducted on the 19 April 2022 (AHIMS Client Service ID#676118) for the following area: Latitude, Longitude From: -34.3249, 150.5417 and Latitude, Longitude To: -34.2766, 150.6653 (see Appendix 1) around the Activity Area. This allows for an assessment of the site features that can be expected based on those that are currently recorded in the wider local context.

A total of seventy (70) Aboriginal cultural heritage sites were located within the AHIMS search zone, however no previously recorded Aboriginal cultural heritage sites exist within or adjacent (i.e., within 200 m) to the Activity Area (Figure 5). Three Aboriginal cultural heritage sites are located within 1 km of the Activity Area. Table 1 outlines AHIMS sites that are located within 1 km of the Activity Area.

Table 2: AHIMS sites within 1 km of the Activity Area

| AHIMS ID | Site Name | Site Features | Potential to be harmed |
|-----------|---|--|------------------------|
| 52-2-3358 | Nicola No 14 | Grinding Groove | Nil |
| 52-2-3359 | Nicola No 15 | Art (Pigment or Engraved) | Nil |
| 52-2-2048 | CC 1; Sydney Water Metropolitan Catchment | Art (Pigment or Engraved), Grinding Groove | Nil |

Aboriginal site Nicola No 14 (AHIMS Site ID#52-2-3358) is a grinding groove site, consisting of eleven (11) grinding grooves. The grinding grooves are described as being located in a group of ten (10) at the outlet of a large water hole and one (1) grinding groove located on the edge of the pool. The site covers an area of approximately 8 x 3.5 m.

Aboriginal site Nicola No 15 (AHIMS Site ID#52-2-3359) is describes as a north facing shelter with thirty-eight (38) charcoal drawings in poor condition, including depictions of two (2) birds and one (1) frontal human figure, and three (3) charcoal outline and infill drawings, including the depiction of one (1) kangaroo.

Aboriginal site CC 1; Sydney Water Metropolitan Catchment (AHIMS Site ID#52-2-2048) consists of a north-western facing shelter with art and grinding grooves. The art within the shelter is describes as indeterminate charcoal motifs in a very poor condition. The grinding groove consists of one grinding groove locate don a large boulder near a water pool at the front of the shelter.

These Aboriginal cultural heritage sites would not be impacted by the proposed activity.

It must be noted that care should be taken when using the AHIMS database to reach conclusions about site prevalence or distribution. The distribution of registered sites does not reflect patterns of occupation, but rather is often indicative of survey coverage and conditions.

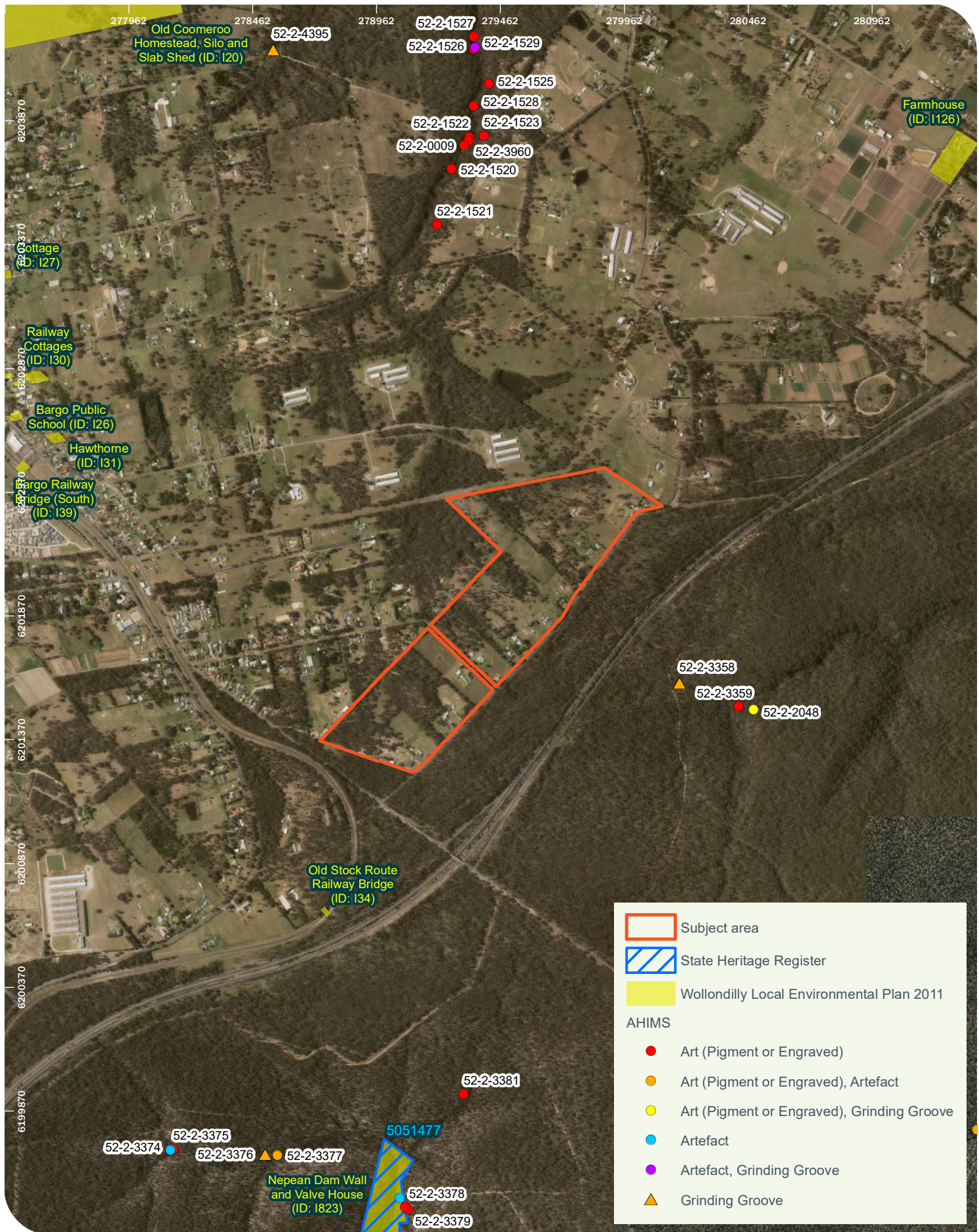
Other heritage registers

Searches of the Australian World Heritage Database, the Commonwealth Heritage List, National Heritage List, State Heritage Register, the Wollondilly Local Environmental Plan (LEP) (2014) and the Wollondilly Development Control Plan (DCP) (2016) were conducted on the 21 April 2022.

The searches concluded that there are no recorded Aboriginal heritage items within, or directly adjacent to, the Activity Area. Heritage items of national, state and local significance that were identified to be associated with the Activity Area and/or surrounding region are summarised in Table 2 below and illustrated in Figure 5.

Table 3: Listed heritage items in proximity to the Activity Area

| Heritage Register | Items in the Activity Area | Items within 1km to the Activity Area |
|---|----------------------------|--|
| Australian World Heritage Database | NA | NA |
| Commonwealth Heritage List | NA | NA |
| National Heritage Register | NA | NA |
| State Heritage Register | NA | NA |
| Schedule 5 of the Wollondilly LEP (2014) | NA | <ul style="list-style-type: none"> Old Stock Route Railway bridge 9D:I34) |
| Wollondilly Development Control Plan (2016) | NA | NA |



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Step 2b - Are there any other sources of information of which a person is already aware?

Yes.

Previous heritage assessments within or relevant to the Activity Area

Most assessments previously conducted within the local area have been undertaken in relation to rezoning applications in the Bargo area. Previous heritage assessments undertaken in the surrounding areas of the Activity Area and within, can indicate the archaeological potential or significance within the area.

Table 4 below provides a summary of heritage assessments that have occurred within proximity to the Activity Area.

Table 4: Heritage assessments in proximity to the Activity Area

| Author | Title | Description/Outcomes |
|--|--|--|
| Cubbitch Barta Native Title Claimants Aboriginal Corporation, 2020 | Cultural Heritage Due Diligence Assessment, Avon Dam Road, NSW National Parks and Wildlife Service, Office and Depot proposed works. | Cubbitch Barta Native Title Aboriginal Corporation were commissioned by New South Wales (NSW) National Parks and Wildlife Service (NPWS) to undertake an Aboriginal Object Due Diligence assessment and report for Lot 1, DP744545, Avon Dam Road Bargo and encompasses 6.5 hectares, with a perimeter of 1.5 kilometres. This is located directly southwest of the current Activity Area, bordering Lot 36/DP10196. A survey of the area was conducted by foot and identified no areas of high or medium archaeological potential. The assessment concluded the area had low archaeological potential, taking into consideration the topography, geology and hydrology of the landscape. |
| Niche Environment and Heritage, 2018c | Rezoning of 1a Kader Street, Bargo, NSW - Aboriginal Cultural Heritage Assessment Report | Niche Environment and Heritage Pty Ltd (Niche) were commissioned by Precise Planning, on behalf of Wollondilly Shire Council, to conduct an Aboriginal heritage assessment for the rezoning and subdivision of 1A Kader Street, Bargo NSW; located approximately 1.9kms from the current Activity Area A survey and excavation program was carried out as part of the ACHAR. The excavation results in the identification of 11 Aboriginal stone artefacts and concluded the Activity Area to have low archaeological research significance and no potential for further archaeological deposits. |
| Niche Environment and Heritage, 2018b | 3000 Remembrance Driveway, 1, 5 & part 3 Olive Lane, Bargo NSW – Aboriginal Cultural Heritage Assessment Report | Niche (Niche) were commissioned by The Anglican Schools Corporation to undertake an Aboriginal Cultural Heritage Assessment (ACHA) for the rezoning of 3000 Remembrance Driveway, 1, 5 & part 3 Olive Lane, Bargo, NSW; located approximately 5.8kms from the current Activity Area A site inspection was conducted of the area. The survey identified the eastern portion of the area has low scientific value due to the large amounts of disturbance present. However, the survey identified the western area remained undisturbed and likely to hold subsurface evidence of Aboriginal occupation. |
| Niche Environment and Heritage, 2018a | 55 Government Road, Bargo NSW – Aboriginal Cultural Heritage Assessment Report | Niche was commissioned by the Precise Planning on behalf of D. Madgwick and A. McCollough to produce an ACHA and an Archaeological Report (AR) for the rezoning of 55 Government Road, Bargo, NSW to facilitate the subdivision and development of 2 lots; located approximately 2.2kms from the current Activity Area |

| Author | Title | Description/Outcomes |
|--------|-------|--|
| | | The ACHA identified one new Aboriginal cultural heritage site during a site survey, Government Road AGG-1 (AHIMS #52-2-4395), which comprised of a worn axe grinding groove. A potential Archaeological Deposit (PAD) was identified and investigated through test excavation, with no further Aboriginal object identified. |

Previous Heritage Assessment Summary

Previous heritage assessments of Bargo have identified evidence of disturbance through historical agricultural use. Previous heritage survey by Cubbitch Barta (2020) of the Lot 1/DP744545, located adjacent to the Activity Area, identified low archaeological potential of the area due to past disturbance. However, previous heritage assessments of the Lucas Heights soil landscape identified low density artefact scatters.

Test excavations of the Lucas Heights soil landscape in Bargo conducted by Niche (2018c) identified a total of eleven (11) Aboriginal artefacts and were subsequently registered to AHIMS as Bargo Artefact Scatter 2 (AHIMS ID#52-23974). Further excavations in the Lucas Heights soil landscape conducted by Niche (2018a) did not identify any Aboriginal stone artefacts from 28 test pits. The identification of artefacts within the Lucas Heights soil landscape from previous heritage assessments in the Bargo area, identifies the potential for further Aboriginal cultural heritage sites to be identified in undisturbed land.

Step 2c - Are there landscape features that are likely to indicate the presence of Aboriginal Objects?

Yes.

The following landscape features listed in the Due Diligence Code signify high potential for the presence of Aboriginal Objects:

- Within 200 m of waters, 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 cave mouth and is on land that is not disturbed land.

In accordance with the Due Diligence Code of Practice, the Activity Area is located within 200 m of water, this therefore signifies a higher potential for Aboriginal Objects to occur.

A non-perennial first order tributary of Dogtrap Creek is located within the northern section of the Activity Area, running through Lot 23/ DP10196 and Lot 24/ DP10196 (Figure 3 on Page 6). Dogtrap Creek is a second order non-perennial water course which feeds the Bargo River. In accordance with the Due Diligence Code of Practice, there is a higher probability of Aboriginal Objects occurring within land that is within 200 m of water. Water is one of the most important resources to human occupation in a landscape and is considered the primary factor for the prediction of Aboriginal Objects in a landscape. Across NSW, there is a strong correlation to the presence, frequency and density of Aboriginal Objects with the abundance and permanency of waterbodies. Areas within 200 m of water are identified by the Due Diligence Code of Practice for the Protection of Aboriginal Objects in New South Wales (DECC, 2010) as landscape features likely to indicate the presence of Aboriginal Objects.

Under the legislation, land is considered disturbed “if it has been the subject of human activity that has changed the land’s surface, being changed that remain clear and visible” (DECCW 2010c: 7). Examples of activities that may disturb land include soil ploughing, vegetation clearing and the construction of buildings, structures, roads, tracks, and trails. Areas within the Activity Area that have been found to be disturbed by prior activities such as vegetation clearing, earthworks, residential structures and the construction of roads and tracks, indicate that the likelihood of finding significant in situ surface and subsurface cultural deposits is reduced.

Step 3 – Can the harm or the activity be avoided?

No.

The rezoning activity cannot be avoided. While no AHIMS are recorded within the Activity Area, visual inspection identified areas of higher potential for in situ archaeological remains that require further investigation. To avoid harm, further investigation is required.

Step 4 - Does a desktop assessment and visual inspection confirm that there are Aboriginal Objects or that they are likely?

A site inspection was conducted by Chelsea Freeman (Heritage Consultant, Niche) and Sam Ward (Heritage Consultant, Niche) on 17 May 2022. A total of 4 properties were inspected on foot and one property was inspected visually from the adjoining property (Figure 6).

560 Arina Rd

A desktop assessment has been undertaken for property 560 Arina Rd, Bargo, as access was not provided at the time of the site inspection. Property 560 Arina Rd is located within 200 m of a water course and within the Lucas Heights and Blacktown Soil landscapes. Historical imagery of the property (Figure 4a - Figure 4c) indicates the property has been cleared of vegetation and the construction of residential infrastructure has been evident prior to 1970. The constant use and maintenance of the property indicates the property has been disturbed, reducing the likelihood of Aboriginal Objects to remain in situ on the property.

570 Arina Rd

A site inspection of property 570 Arina Rd, Bargo, identified poor Ground Surface Visibility (GSV) with a percentage of approximately 20% for the overall property. The south-eastern end of the property, closest to Arina Rd, was disturbed as evident by the construction of a driveway, a residential property and the current use of front paddocks for horses (Plate 6 - Plate 7). The north-western end of the property, the rear, had 0% GSV with overgrown dense vegetation limiting visibility (Plate 2 - Plate 5). No Aboriginal Objects were identified through the visual inspection.

580 Arina Rd

A site inspection of property 580 Arina Rd, Bargo, identified high GSV, approximately 70% for the front of the property, closest to Arina Rd (Plate 8 - Plate 9). The front of the property was disturbed due to landscaping and the construction of residential infrastructure. The north-western end of the property had 10% GSV with overgrown dense vegetation limiting visibility and mud in areas of exposure (Plate 13). The rear of the property contained two dams, with shaley rock exposures surrounding the dams (Plate 10 - Plate 12). No Aboriginal Objects were identified through the visual inspection.

590 Arina Rd

A desktop assessment has been undertaken for property 590 Arina Rd, Bargo, as access was not provided at the time of the site inspection. Property 590 Arina Rd is located with 200 m of a water course and within the Lucas Heights Soil landscapes. Historical imagery of the property (Figure 5) indicates the property was extensively cleared of vegetation prior to 1970 (Figure 4a). The 1998, 2005 and current aerial imagery indicate a steady regrowth of vegetation on the property, with clearance of vegetation being maintained in specific areas of the property (Figure 4a - Figure 4b). The current aerial imagery indicates the use of the property for residential and agricultural purposes, as evident by residential infrastructure and infrastructure associated with equestrian activities. The constant use and maintenance of the property indicates the property has been disturbed, reducing the likelihood of Aboriginal Objects to remain in situ on the property.

600 Arina Rd

A site inspection of property 600 Arina Rd, Bargo, identified the property to be disturbed through the construction of residential infrastructure at the front of the property, closest to Arina Rd, and the use of the rear of the property for equestrian purposes. The rear of the property consisted of consecutive paddocks, all currently occupied by horses, with poor GSV due to the high level of mud (Plate 14 - Plate 17). No Aboriginal Objects were identified through the visual inspection.

610 Arina Rd

A desktop assessment has been undertaken for property 610 Arina Rd, Bargo, as access was not provided at the time of the site inspection. Property 610 Arina Rd is partially located with 200 m of a water course and within the Lucas Heights Soil landscape. Historical imagery of the property (Figure 4c) indicates the property has been cleared of vegetation prior to 1970. The 1998 aerial imagery show the construction of a circular track across the majority of the property, with a dam constructed in the middle of the track and residential infrastructure at the front of the property (Figure 4b). The 2005 (Figure 4a) and current aerials of the property indicate the continued use of the property, reducing the likelihood of Aboriginal Objects to remain in situ on the property.

620 Arina Rd

A desktop assessment has been undertaken for property 620 Arina Rd, Bargo, as access was not provided at the time of the site inspection. Property 620 Arina Rd is located partially within 200 m of a water course and within the Lucas Heights Soil landscape. Historical imagery of the property from 1970 show the complete clearance of vegetation (Figure 4c). Imagery from 1998 (Figure 4b) show the regrowth of vegetation across approximately 60% of the property and the construction of residential infrastructure at the front of the property. Minimal difference is evident between 1998 and 2005 aerial imagery; however, current aerial imagery indicates the removal of vegetation to the majority of the property since 2005 (Figure 4a). The continued clearance of vegetation from the property and the construction of residential infrastructure indicates the property has been disturbed, reducing the likelihood of Aboriginal Objects to remain in situ on the property.

630 Arina Rd

A desktop assessment has been undertaken for property 630 Arina Rd, Bargo, as access was not provided at the time of the site inspection. Property 630 Arina Rd is located partially within 200 m of a water course and within the Lucas Heights Soil landscape. Historical imagery of the property (Figure 4c) indicates vegetation clearance occurred prior to 1970. Aerial imagery from 1998 and 2005 reveals construction of residential infrastructure, farming infrastructure and a dam on the property (Figure 4a - Figure 4b). The

constant use and maintenance of the property indicates the property has been disturbed, reducing the likelihood of Aboriginal Objects to remain in situ on the property.

636 Arina Rd

A desktop assessment has been undertaken for property 636 Arina Rd, Bargo, as access was not provided at the time of the site inspection. Property 636 Arina Rd is located partially within 200 m of a water course and within the Lucas Heights Soil landscape. Historical imagery of the property (Figure 4c) indicates the property has been cleared of vegetation and the construction of residential infrastructure has been evident prior to 1970. The constant use and maintenance of the property indicates the property has been disturbed, reducing the likelihood of Aboriginal Objects to remain in situ on the property.

660 Arina Rd

A desktop assessment has been undertaken for property 660 Arina Rd, Bargo, as access was not provided at the time of the site inspection. Property 660 Arina Rd is located partially within 200 m of a water course and within the Lucas Heights Soil landscape. Historical imagery from 1970 (Figure 4c) indicates disturbance to the front of the property through vegetation clearance, use of the property for agricultural practices and the construction of residential property. Historical imagery from 1998 and 2005 (Figure 4a - Figure 4b) show the continued use of the property for residential purposes. The constant use and maintenance of the front of the property indicates the property has been disturbed, reducing the likelihood of Aboriginal Objects to remain in situ on the property. However, the historical aerial imagery does not indicate disturbance at the rear of the property, therefore, Aboriginal Objects have greater likelihood to remain in-situ comparative to the front of the property.

670 Arina Rd

A desktop assessment has been undertaken for property 670 Arina Rd, Bargo, as access was not provided at the time of the site inspection. Property 670 Arina Rd is located partially within 200 m of a water course and within the Lucas Heights Soil landscape. Historical imagery indicated minimal disturbance to the property. Vegetation clearance and residential infrastructure is evident at the front of the property; however, no disturbance is evident in the historical imagery for the rear of the property (Figure 4a - Figure 4c). Therefore, due to minimal disturbance and its location within 200 m of a water course, Aboriginal Objects are likely to remain in situ on the property.

680 Arina Rd

A site inspection of property 680 Arina Rd, Bargo, identified high Ground Surface Visibility (GSV) with approximately 70% for the overall property. The front of the property, closet to Arina Rd, has been disturbed through landscaping and residential infrastructure (Plate 18 - Plate 20). The rear of the property has been well kept and mown, with infrastructure associated with the keeping of animals, including fenced dog kennels (Plate 22 - Plate 23). Small areas of exposure were evident around the boundary of the property along the fence line (Plate 19). No Aboriginal Objects were identified through the visual inspection.

690 Arina Rd

A visual inspection of 690 Arina Rd, Bargo, from the adjoining property 680 Arina Rd, identified the area as highly disturbed, through residential infrastructure at the front of the property, the use of the rear of the property as a boat yard and associated infrastructure, and the construction of a large heavy duty gate at the entrance to the property. No Aboriginal Objects were identified through the visual inspection.

115 Reservoir Rd

A desktop assessment has been undertaken for property 115 Reservoir Rd, Bargo, as access was not provided at the time of the site inspection. Property 115 Reservoir Rd is located partially within 200 m of a water course and within the Lucas Heights Soil landscape. Historical imagery of the property (Figure 4c) show the constant removal of vegetation prior to 1970 and the construction of residential infrastructure. The constant use and maintenance of the property indicates the property has been disturbed, reducing the likelihood of Aboriginal Objects to remain in situ on the property.

120 Reservoir Rd

A desktop assessment has been undertaken for property 120 Reservoir Rd, Bargo, as access was not provided at the time of the site inspection. Property 120 Reservoir Rd is located partially within 200 m of a water course and within the Lucas Heights Soil landscape. Historical imagery of the property (Figure 4c) show removal of vegetation to 100% of the property prior to 1970 and the construction of infrastructure. The constant use and maintenance of the property indicates the property has been disturbed, reducing the likelihood of Aboriginal Objects to remain in situ on the property.

Visual Inspection Summary

No Aboriginal cultural heritage sites were identified in the Activity Area through site inspection and desktop review. Throughout the Activity Area, significant disturbance is evident as a result of extensive vegetation clearing, landscaping and the construction of infrastructure associated with residential and agricultural use. However, desktop assessment identified properties 660 Arina Rd and 670 Arina Rd, Bargo, as showing minimal historical disturbance and are located within 200m of a water course, therefore having a greater likelihood of in-situ Aboriginal Objects and require visual inspection.



Plate 2. GSV at rear of property 570 Arina Rd, Bargo.



Plate 3. Poor GSV at the rear of property 570 Arina Rd, Bargo.



Plate 4. Overgrown vegetation at rear of property 570 Arina Rd, Bargo.



Plate 5. Residential infrastructure on property 570 Arina Rd, Bargo.



Plate 6. Front paddocks disturbed through animal use at property 570 Arina Rd, Bargo.



Plate 7. Front paddocks disturbed through animal use at property 570 Arina Rd, Bargo.



Plate 8. Front of property 580 Arina Rd, Bargo. Lawn of residential property is landscaped and well-kept.



Plate 9. Front of property 580 Arina Rd, Bargo. Lawn of residential property is landscaped and well-kept.



Plate 10. Exposure at rear of property 580 Arina Rd, Bargo.



Plate 11. Dam located at rear of property 580 Arina Rd, Bargo. Small areas of exposure surrounding dam.



Plate 12. Dam located at rear of property 580 Arina Rd, Bargo. Small areas of exposure surrounding dam.



Plate 13. Overgrown vegetation with poor GSV at rear of property 580 Arina Rd, Bargo.



Plate 14. Consecutive paddocks containing horses behind residential dwellings at property 600 Arina Rd, Bargo.



Plate 15. The rear paddock containing horses behind residential dwellings at property 600 Arina Rd, Bargo.



Plate 16. The rear paddock containing horses behind residential dwellings at property 600 Arina Rd, Bargo.



Plate 17. Track running parallel to paddocks leading to residential property at property 600 Arina Rd, Bargo.



Plate 18. Landscaped front lawn adjacent to residential property at 680 Arina Rd, Bargo.

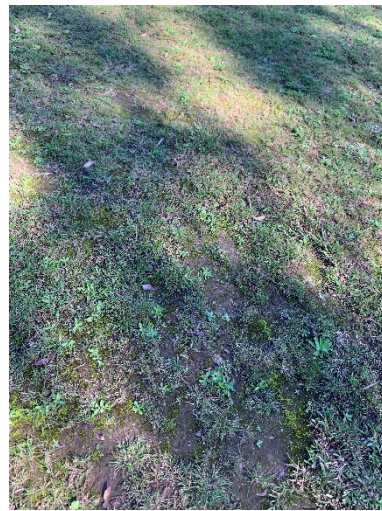


Plate 19. Small areas of exposure evident at boundary of property 680 Arina Rd, Bargo.



Plate 20. Landscaped front lawn adjacent to residential property at 680 Arina Rd, Bargo.



Plate 21. Overgrown grass with poor GSV at property 680 Arina Rd, Bargo.



Plate 22. Rear paddock cleared of vegetation at property 680 Arina Rd, Bargo.



Plate 23. Rear paddock cleared of vegetation at property 680 Arina Rd, Bargo.



Step 5 – Are further investigations and impact assessments needed?

Yes.

Based on the site inspection and desktop assessment of properties that were unable to be accessed, it is concluded that Aboriginal Objects are likely to occur in the Activity Area. Aboriginal Objects are likely to occur in properties that show evidence of minimal disturbance and are located within 200m of a watercourse. The Due Diligence code states that where a DD has occurred and concluded that Aboriginal Objects are likely to occur, further detailed investigation and impact assessment is required.

4. Conclusions and Recommendations

Wollondilly Shire Council has commissioned Niche to undertake the Aboriginal Due Diligence to assess:

- whether Aboriginal Objects and/or Places are present or are likely to occur within or in close proximity to the Activity Area,
- where those places are, and
- whether those Aboriginal Objects and/or places may be impacted by the rezoning and future development of the Activity Area.

The desktop assessment and the results of the site inspection identified high levels of disturbance and modification to the ground surface within most of the Activity Area. Previous clearance of vegetation and the use of land for residential and agricultural practices has lowered the potential for in situ archaeological remains in most of the Activity Area. However, areas within the Activity Area that have not been subjected to historical vegetation clearance and disturbance have a higher potential for in situ archaeological remains in the Activity Area. These areas will require further investigation to determine their sub-surface archaeological potential.

The site inspection of four properties and the visual inspection of one property did not identify any Aboriginal Objects within the Activity Area.

The Due Diligence Code states that where a DD has occurred and concluded that Aboriginal Objects are likely to occur, further detailed investigation and impact assessment is required. If, following this detailed investigation and impact assessment, it is determined that harm will occur to Aboriginal Objects, then an AHIP application is required.

It is recommended that:

- An Aboriginal Cultural Heritage Assessment (ACHA) be prepared by a suitably qualified archaeologist in accordance with the Guide to Investigating, assessing reporting on Aboriginal cultural heritage in NSW (NSW Office of Environment and Heritage [OEH], 2011) and the Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW (DECCW, 2010c). The ACHA would be required to support an application for an AHIP under s.90 of the National Parks and Wildlife Act 1974 should Aboriginal Objects and/or sites be identified.
- The proposed ACHA should document Aboriginal community consultation carried out in accordance with the Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010 (DECCW, 2010b).

5. References

Cubbitch Barta Native Title Claimants Aboriginal Corporation, 2020. Cultural Heritage Due Diligence Assessment, Avon Dam Road, NSW National Parks and Wildlife Service, Office and Depot proposed works.

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

Department of Environment, Climate Change and Water NSW [DECCW] 2010b. Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales. Department of Environment, Climate Change and Water NSW.

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Department of Planning 2022b Soil Landscape Report for Lucas Heights - eSPADE version 2.1 NSW Department of Planning, Industry and Environment, Sydney. Accessed May 2022
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Niche Environment and Heritage, 2018a. 55 Government Road, Bargo NSW – Aboriginal Cultural Heritage Assessment Report. Report for Precise Planning Pty Ltd.

Niche Environment and Heritage, 2018b. 3000 Remembrance Driveway, 1, 5 & part 3 Olive Lane, Bargo NSW – Aboriginal Cultural Heritage Assessment Report. Report for Anglican Schools Corporation.

Niche Environment and Heritage, 2018c. Rezoning of 1a Kader Street, Bargo, NSW - Aboriginal Cultural Heritage Assessment Report. Report for Precise Planning Pty Ltd.

Appendix 1 – AHIMS extensive search



AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : 7224 Bargo

Client Service ID : 676118

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|-----------|--------------------|------------------|---|---------|----------|-------------|----------------|--|------------------|---------|
| 52-2-1521 | Dogtrap Creek 1 | AGD | 56 | 279100 | 6203260 | Closed site | Valid | Art (Pigment or Engraved) : - | Shelter with Art | 1333 |
| | <u>Contact</u> | <u>Recorders</u> | Warren Bluff | | | | | | | |
| 52-2-3381 | Nicola No 8 | GDA | 56 | 279314 | 6199938 | Closed site | Valid | Art (Pigment or Engraved) : 41 | | |
| | <u>Contact</u> | <u>Recorders</u> | Mrs.Caryll Sefton | | | | | | | |
| 52-2-3372 | Nicola No 28 | GDA | 56 | 282346 | 6202187 | Closed site | Valid | Art (Pigment or Engraved) : 1, Artefact : 1 | | |
| | <u>Contact</u> | <u>Recorders</u> | Mrs.Caryll Sefton | | | | | | | |
| 52-2-4678 | Pheasants Nest IF1 | GDA | 56 | 282765 | 6203935 | Open site | Valid | Artefact : - | | |
| | <u>Contact</u> | <u>Recorders</u> | Urbis Pty Ltd - Angel Place L8 123 Pitt Street, Mr. Owen Barrett | | | | | | | |
| 52-2-1742 | Ricki Lee 15; | AGD | 56 | 284020 | 6199970 | Closed site | Valid | Art (Pigment or Engraved) : - | Shelter with Art | |
| | <u>Contact</u> | <u>Recorders</u> | Mrs.Caryll Sefton | | | | | | | |
| 52-2-4679 | Pheasants Nest IF2 | GDA | 56 | 282795 | 6203991 | Open site | Valid | Art (Pigment or Engraved) : - | | |
| | <u>Contact</u> | <u>Recorders</u> | Urbis Pty Ltd - Angel Place L8 123 Pitt Street, Mr. Owen Barrett | | | | | | | |
| 52-2-1522 | Dogtrap Creek;; | GDA | 56 | 279336 | 6203805 | Closed site | Valid | Art (Pigment or Engraved) : - | Shelter with Art | 1333 |
| | <u>Contact</u> | <u>Recorders</u> | Warren Bluff, Niche Environment and Heritage, Ms. Rebecca Chalker | | | | | | | |
| 52-2-3359 | Nicola No 15 | GDA | 56 | 280423 | 6201504 | Closed site | Valid | Art (Pigment or Engraved) : 41 | | |
| | <u>Contact</u> | <u>Recorders</u> | Mrs.Caryll Sefton | | | | | | | |
| 52-2-4462 | BDTC PAD01 | GDA | 56 | 277887 | 6204512 | Open site | Valid | Potential Archaeological Deposit (PAD) : - | | |
| | <u>Contact</u> | <u>Recorders</u> | Artefact - Cultural Heritage Management - Pyrmont, Mr. Ryan Taddeucci | | | | | | | |
| 52-2-3377 | Nicola No 4 | GDA | 56 | 278562 | 6199690 | Closed site | Valid | Art (Pigment or Engraved) : 8, Artefact : 3 | | |
| | <u>Contact</u> | <u>Recorders</u> | Mrs.Caryll Sefton | | | | | | | |
| 52-2-1539 | Bargo; | GDA | 56 | 278844 | 6204539 | Closed site | Valid | Art (Pigment or Engraved) : -, Grinding Groove : - | Shelter with Art | 1333 |
| | <u>Contact</u> | <u>Recorders</u> | Warren Bluff, Niche Environment and Heritage, Ms. Rebecca Chalker | | | | | | | |
| 52-2-3367 | Nicola No 23 | GDA | 56 | 281385 | 6199793 | Closed site | Valid | Art (Pigment or Engraved) : 5, Artefact : 1 | | |
| | <u>Contact</u> | <u>Recorders</u> | Mrs.Caryll Sefton | | | | | | | |

Report generated by AHIMS Web Service on 19/04/2022 for Chelsea Freeman for the following area at Lat, Long From : -34.3249, 150.5417 - Lat, Long To : -34.2766, 150.6653. Number of Aboriginal sites and Aboriginal objects found is 70

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : 7224 Bargo

Client Service ID : 676118

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|-----------|-------------------------------------|--|------|---------|----------|-------------|----------------|---|------------------|---------|
| 52-2-3371 | Nicola No 27 | GDA | 56 | 281657 | 6202294 | Closed site | Valid | Art (Pigment or Engraved) : 13, Artefact : 1 | | |
| | Contact Searle | Recorders Mrs.Caryll Sefton | | | | | | Permits | | |
| 52-2-3373 | Nicola No 29 | GDA | 56 | 282780 | 6201990 | Closed site | Valid | Art (Pigment or Engraved) : 1 | | |
| | Contact Searle | Recorders Mrs.Caryll Sefton | | | | | | Permits | | |
| 52-2-1741 | Ricki Lee 14; | AGD | 56 | 283950 | 6199980 | Closed site | Valid | Art (Pigment or Engraved) : - | Shelter with Art | |
| | Contact | Recorders Mrs.Caryll Sefton | | | | | | Permits | | |
| 52-2-4748 | Pheasants Nest AS1 | GDA | 56 | 282793 | 6204131 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders Urbis Pty Ltd - Angel Place L8 123 Pitt Street, Mr. Owen Barrett | | | | | | Permits | | |
| 52-2-1748 | Ricki Lee 21; | AGD | 56 | 284900 | 6201420 | Closed site | Valid | Art (Pigment or Engraved) : - | Shelter with Art | |
| | Contact | Recorders Mrs.Caryll Sefton | | | | | | Permits | | |
| 52-2-4464 | BDTC AS02 | GDA | 56 | 277815 | 6204489 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders Artefact - Cultural Heritage Management - Pyrmont, Mr. Ryan Taddeucci | | | | | | Permits | | |
| 52-2-3375 | Nicola No 2 | GDA | 56 | 278142 | 6199715 | Closed site | Valid | Art (Pigment or Engraved) : 4 | | |
| | Contact Searle | Recorders Mrs.Caryll Sefton | | | | | | Permits | | |
| 52-2-3368 | Nicola No 24 | GDA | 56 | 281504 | 6199820 | Closed site | Valid | Artefact : 4 | | |
| | Contact Searle | Recorders Mrs.Caryll Sefton | | | | | | Permits | | |
| 52-2-3363 | Nicola No 19 | GDA | 56 | 282465 | 6202851 | Closed site | Valid | Artefact : 5, Potential Archaeological Deposit (PAD) : - | | |
| | Contact Searle | Recorders Mrs.Caryll Sefton | | | | | | Permits | | |
| 52-2-2259 | WADE No15 | AGD | 56 | 283240 | 6203060 | Closed site | Valid | Potential Archaeological Deposit (PAD) : -, Art (Pigment or Engraved) : - | | |
| | Contact | Recorders Mrs.Caryll Sefton | | | | | | Permits | | |
| 52-2-1991 | Tahani Lea 32; Avon catchment Area; | AGD | 56 | 284660 | 6202400 | Closed site | Valid | Potential Archaeological Deposit (PAD) : - | Shelter with PAD | |
| | Contact | Recorders Mrs.Caryll Sefton | | | | | | Permits | | |
| 52-2-1743 | Ricki Lee 16; | AGD | 56 | 284130 | 6200000 | Closed site | Valid | Art (Pigment or Engraved) : - | Shelter with Art | |
| | Contact | Recorders Mrs.Caryll Sefton | | | | | | Permits | | |
| 52-2-1527 | Dogtrap Creek 6 | AGD | 56 | 279250 | 6204020 | Closed site | Valid | Art (Pigment or Engraved) : - | Shelter with Art | 1333 |

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

Your Ref/PO Number : 7224 Bargo

Client Service ID : 676118

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|-----------|-----------------------|--|------|---------|----------|-------------|----------------|---|------------------|---------|
| | Contact | Recorders | | | | | | Permits | | |
| 52-2-3376 | Nicola No 3 | GDA | 56 | 278512 | 6199695 | Closed site | Valid | Grinding Groove : 14 | | |
| | Contact Searle | Recorders Mrs.Caryll Sefton | | | | | | Permits | | |
| 52-2-3379 | Nicola No 6 | GDA | 56 | 279090 | 6199470 | Closed site | Valid | Art (Pigment or Engraved) : 1 | | |
| | Contact Searle | Recorders Dan Witter | | | | | | Permits | | |
| 52-2-3960 | Dog Trap Creek 2013.1 | GDA | 56 | 279334 | 6203792 | Closed site | Valid | Art (Pigment or Engraved) : - | | |
| | Contact | Recorders Niche Environment and Heritage,Ms.Renee Regal | | | | | | Permits | | |
| 52-2-1526 | Dogtrap Creek 5 | AGD | 56 | 279250 | 6203970 | Closed site | Valid | Art (Pigment or Engraved) : - | Shelter with Art | 1333 |
| | Contact | Recorders Warren Bluff | | | | | | Permits | | |
| 52-2-4195 | BDTC-AS01 | GDA | 56 | 277847 | 6204392 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders Artefact - Cultural Heritage Management - Pyrmont,Ms.Alyce Howard | | | | | | Permits | | |
| 52-2-4194 | BDTC-GG01 | GDA | 56 | 277918 | 6204487 | Open site | Valid | Grinding Groove : - | | |
| | Contact | Recorders Artefact - Cultural Heritage Management - Pyrmont,Ms.Alyce Howard | | | | | | Permits | | |
| 52-2-3369 | Nicola No 25 | GDA | 56 | 281470 | 6199820 | Closed site | Valid | Artefact : 8 | | |
| | Contact Searle | Recorders Mrs.Caryll Sefton | | | | | | Permits | | |
| 52-2-2216 | WADE NO.13 | AGD | 56 | 282420 | 6199480 | Closed site | Valid | Art (Pigment or Engraved) : - | | |
| | Contact | Recorders Mrs.Caryll Sefton | | | | | | Permits | | |
| 52-2-3849 | Nepean River Gorge | GDA | 56 | 283814 | 6204637 | Open site | Valid | Grinding Groove : 12 | | |
| | Contact | Recorders Mr.Phil Craven | | | | | | Permits | | |
| 52-2-0009 | Bargo;Dog Trap Creek; | AGD | 56 | 279210 | 6203580 | Closed site | Valid | Art (Pigment or Engraved) : - | Shelter with Art | |
| | Contact | Recorders Breton Le | | | | | | Permits | | |
| 52-2-1528 | Dogtrap Creek 7 | AGD | 56 | 279250 | 6203740 | Closed site | Valid | Art (Pigment or Engraved) : - | Shelter with Art | 1333 |
| | Contact | Recorders Warren Bluff | | | | | | Permits | | |
| 52-2-1523 | Dogtrap Creek 2 | AGD | 56 | 279290 | 6203620 | Closed site | Valid | Art (Pigment or Engraved) : - | Shelter with Art | 1333 |
| | Contact | Recorders Warren Bluff | | | | | | Permits | | |
| 52-2-3971 | Dogtrap Creek 2013.2 | GDA | 56 | 279412 | 6204552 | Closed site | Valid | Art (Pigment or Engraved) : - | | |
| | Contact | Recorders Niche Environment and Heritage,Ms.Renee Regal | | | | | | Permits | | |
| 52-2-3366 | Nicola No 22 | GDA | 56 | 282228 | 6200816 | Closed site | Valid | Art (Pigment or Engraved) : 1, Artefact : 2 | | |
| | Contact | Recorders Mrs.Caryll Sefton | | | | | | Permits | | |

Report generated by AHIMS Web Service on 19/04/2022 for Chelsea Freeman for the following area at Lat, Long From : -34.3249, 150.5417 - Lat, Long To : -34.2766, 150.6653. Number of Aboriginal sites and Aboriginal objects found is 70

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : 7224 Bargo

Client Service ID : 676118

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|-----------|--|------------------|---|---------|----------|-------------|----------------|--|---------------------------------------|---------|
| 52-2-2048 | CC 1; Sydney Water Metropolitan Catchment; | AGD | 56 | 280380 | 6201300 | Closed site | Valid | Art (Pigment or Engraved) : -, Grinding Groove : - | Axe Grinding Groove, Shelter with Art | |
| | <u>Contact</u> | <u>Recorders</u> | Tony Kondek | | | | | <u>Permits</u> | | |
| 52-2-4461 | BDTC PAD02 | GDA | 56 | 277939 | 6204512 | Open site | Valid | Potential Archaeological Deposit (PAD) : - | | |
| | <u>Contact</u> | <u>Recorders</u> | Artefact - Cultural Heritage Management - Pyrmont, Mr. Ryan Taddeucci | | | | | <u>Permits</u> | | |
| 52-2-3973 | Bargo Artefact Scatter 1 | GDA | 56 | 276866 | 6202433 | Open site | Valid | Artefact : - | | |
| | <u>Contact</u> | <u>Recorders</u> | Mr. Josh Symons | | | | | <u>Permits</u> | | |
| 52-2-4034 | SW CORNER BARGO SPORTSGROUND | GDA | 56 | 277072 | 6202320 | Open site | Valid | Artefact : 1 | | |
| | <u>Contact</u> | <u>Recorders</u> | Doctor. Peter Kabaila | | | | | <u>Permits</u> | | |
| 52-2-3360 | Nicola No 16 | GDA | 56 | 281414 | 6201957 | Closed site | Valid | Art (Pigment or Engraved) : 2 | | |
| | <u>Contact</u> Searle | <u>Recorders</u> | Mrs. Caryll Sefton | | | | | <u>Permits</u> | | |
| 52-2-2258 | WADE No14 | AGD | 56 | 282460 | 6199480 | Closed site | Valid | Art (Pigment or Engraved) : - | | |
| | <u>Contact</u> | <u>Recorders</u> | Mrs. Caryll Sefton | | | | | <u>Permits</u> | | |
| 52-2-1731 | Ricki Lee 3; | AGD | 56 | 284620 | 6199500 | Closed site | Valid | Art (Pigment or Engraved) : - | Shelter with Art | |
| | <u>Contact</u> | <u>Recorders</u> | Mrs. Caryll Sefton | | | | | <u>Permits</u> | | |
| 52-2-1732 | Ricki Lee 4; | AGD | 56 | 284350 | 6200300 | Closed site | Valid | Art (Pigment or Engraved) : - | Shelter with Art | |
| | <u>Contact</u> | <u>Recorders</u> | Mrs. Caryll Sefton | | | | | <u>Permits</u> | | |
| 52-2-1529 | Dogtrap Creek; | GDA | 56 | 279359 | 6204167 | Closed site | Valid | Artefact : -, Grinding Groove : - | Open Camp Site | 1333 |
| | <u>Contact</u> | <u>Recorders</u> | Warren Bluff, Niche Environment and Heritage, Ms. Rebecca Chalker | | | | | <u>Permits</u> | | |
| 52-2-1525 | Dogtrap Creek 4 | AGD | 56 | 279310 | 6203830 | Closed site | Valid | Art (Pigment or Engraved) : - | Shelter with Art | 1333 |
| | <u>Contact</u> | <u>Recorders</u> | Warren Bluff | | | | | <u>Permits</u> | | |
| 52-2-3362 | Nicola No 18 | GDA | 56 | 282121 | 6202926 | Closed site | Valid | Art (Pigment or Engraved) : 7, Artefact : 1 | | |
| | <u>Contact</u> Searle | <u>Recorders</u> | Mrs. Caryll Sefton | | | | | <u>Permits</u> | | |
| 52-2-3977 | Bargo Isolated Find 2 | GDA | 56 | 276856 | 6202265 | Open site | Valid | Artefact : - | | |
| | <u>Contact</u> | <u>Recorders</u> | Mr. Josh Symons | | | | | <u>Permits</u> | | |
| 52-2-3378 | Nicola No 5 | GDA | 56 | 279056 | 6199517 | Closed site | Valid | Artefact : 3 | | |
| | <u>Contact</u> Searle | <u>Recorders</u> | Mrs. Caryll Sefton | | | | | <u>Permits</u> | | |
| 52-2-3380 | Nicola No 7 | GDA | 56 | 279076 | 6199481 | Closed site | Valid | Art (Pigment or Engraved) : 1 | | |
| | <u>Contact</u> Searle | <u>Recorders</u> | Mrs. Caryll Sefton | | | | | <u>Permits</u> | | |

Report generated by AHIMS Web Service on 19/04/2022 for Chelsea Freeman for the following area at Lat, Long From : -34.3249, 150.5417 - Lat, Long To : -34.2766, 150.6653. Number of Aboriginal sites and Aboriginal objects found is 70

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : 7224 Bargo

Client Service ID : 676118

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|-----------|------------------------------------|---------------------------|------|---|----------|-------------|----------------|--|------------------|---------|
| 52-2-3358 | Nicola No 14 | GDA | 56 | 280185 | 6201600 | Closed site | Valid | Grinding Groove : 11 | | |
| | Contact Searle | Recorders | | Mrs.Caryll Sefton | | | | Permits | | |
| 52-2-3364 | Nicola No 20 | GDA | 56 | 281673 | 6200613 | Closed site | Valid | Art (Pigment or Engraved) : 3 | | |
| | Contact Searle | Recorders | | Mrs.Caryll Sefton | | | | Permits | | |
| 52-2-1993 | Tahani Lea 34 | GDA | 56 | 283867 | 6201653 | Closed site | Valid | Art (Pigment or Engraved) : - | Shelter with Art | |
| | Contact | Recorders | | Mrs.Caryll Sefton,Mr.Jamie Erskine,Office of Environment & Heritage | | | | Permits | | |
| 52-2-1520 | Dogtrap Creek | GDA | 56 | 279264 | 6203676 | Closed site | Valid | Art (Pigment or Engraved) : - | Shelter with Art | 1333 |
| | Contact | Recorders | | Warren Bluff,Niche Environment and Heritage,Ms.Rebecca Chalker | | | | Permits | | |
| 52-2-1524 | Dogtrap Creek 3 | AGD | 56 | 279300 | 6204250 | Closed site | Valid | Art (Pigment or Engraved) : - | Shelter with Art | 1333 |
| | Contact | Recorders | | Warren Bluff | | | | Permits | | |
| 52-2-3365 | Nicola No 21 | GDA | 56 | 282252 | 6200810 | Closed site | Valid | Art (Pigment or Engraved) : 8 | | |
| | Contact Searle | Recorders | | Mrs.Caryll Sefton | | | | Permits | | |
| 52-2-1538 | Bargo | GDA | 56 | 278809 | 6204558 | Closed site | Valid | Art (Pigment or Engraved) : -, Artefact : - | Shelter with Art | |
| | Contact | Recorders | | Warren Bluff,Niche Environment and Heritage,Ms.Rebecca Chalker | | | | Permits | | |
| 52-2-3975 | Bargo Artefact Scatter 3 | GDA | 56 | 276981 | 6202332 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | | Mr.Josh Symons | | | | Permits | | |
| 52-2-3976 | Bargo Isolated Find 1 | GDA | 56 | 277015 | 6202250 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | | Mr.Josh Symons | | | | Permits | | |
| 52-2-4566 | TR-PAD-001 | GDA | 56 | 277147 | 6202248 | Open site | Valid | Potential Archaeological Deposit (PAD) : 1 | | |
| | Contact | Recorders | | Kayandel Archaeological Services | | | | Permits | | |
| 52-2-4463 | BDTC AS03 | GDA | 56 | 277963 | 6204488 | Open site | Valid | Artefact : - | | |
| | Contact | Recorders | | Artefact - Cultural Heritage Management - Pyrmont,Mr.Ryan Taddeucci | | | | Permits | | |
| 52-2-3374 | Nicola No 1 | GDA | 56 | 278130 | 6199710 | Closed site | Valid | Artefact : 10 | | |
| | Contact Searle | Recorders | | Mrs.Caryll Sefton | | | | Permits | | |
| 52-2-3361 | Nicola No 17 | GDA | 56 | 281899 | 6202876 | Closed site | Valid | Potential Archaeological Deposit (PAD) : -, Artefact : 5 | | |
| | Contact Searle | Recorders | | Mrs.Caryll Sefton | | | | Permits | | |
| 52-2-1992 | Tahani Lea 33;Avon catchment Area; | AGD | 56 | 284570 | 6202000 | Closed site | Valid | Potential Archaeological Deposit (PAD) : - | Shelter with PAD | |

Report generated by AHIMS Web Service on 19/04/2022 for Chelsea Freeman for the following area at Lat, Long From : -34.3249, 150.5417 - Lat, Long To : -34.2766, 150.6653. Number of Aboriginal sites and Aboriginal objects found is 70

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

Your Ref/PO Number : 7224 Bargo

Client Service ID : 676118

| SiteID | SiteName | Datum | Zone | Easting | Northing | Context | Site Status ** | SiteFeatures | SiteTypes | Reports |
|-----------|------------------------------|------------------|------|---|----------|-----------|----------------|---------------------|-----------|---------|
| | <u>Contact</u> | <u>Recorders</u> | | Mrs.Caryll Sefton | | | | <u>Permits</u> | | |
| 52-2-4395 | Government Road AGG-1 | GDA | 56 | 278544 | 6204158 | Open site | Valid | Grinding Groove : - | | |
| | <u>Contact</u> | <u>Recorders</u> | | Niche Environment and Heritage,Ms.Renee Regal | | | | <u>Permits</u> | | |
| 52-2-3974 | Bargo Artefact Scatter 2 | GDA | 56 | 276824 | 6202416 | Open site | Valid | Artefact : - | | |
| | <u>Contact</u> | <u>Recorders</u> | | Mr.Josh Symons | | | | <u>Permits</u> | | |
| 52-2-3872 | Bargo Sports Ground - AFT001 | GDA | 56 | 277060 | 6202257 | Open site | Valid | Artefact : 6 | | |
| | <u>Contact</u> | <u>Recorders</u> | | Mr.Mark Simon,Kelleher Nightingale Consulting Pty Ltd | | | | <u>Permits</u> | | |

** Site Status

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

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

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

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


Report generated by AHIMS Web Service on 19/04/2022 for Chelsea Freeman for the following area at Lat, Long From : -34.3249, 150.5417 - Lat, Long To : -34.2766, 150.6653. Number of Aboriginal sites and Aboriginal objects found is 70

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Appendix 2 – Site Cards

[] New recording [] Additional Info

| | | |
|---|---|---|
|  National Parks and Wildlife Service Box 1967, Hurstville NSW 2220. Tel: (02) 595 6444 Standard Site Recording Form Revised 5/88 | | 52-2-2048 |
| 1:250,000 map sheet: <u>Wollongong</u> NPWS Code <u>15.21</u> AMG Grid reference <u>280380</u> mE <u>6201300</u> mN Full reference - please include leading digits Scale of map used for grid reference <input checked="" type="checkbox"/> 25K, 50K (preferred) <input type="checkbox"/> 100K <input type="checkbox"/> 250K Please use largest scale available 1:25K, 50K, 100K map name: <u>BARGO 9029-3-N</u> | | HEAD OFFICE USE ONLY: NPWS Site no: <u>52-2-2048</u> Site types: <u>shelter with Art</u> Accessioned by: <u>Re</u> Date: <u>3.8.98</u> Data entered by: _____ Date: _____ Owner/Manager: <u>SYDNEY WATER</u> Address: <u>PO Box 3154, NARELLAN</u> |
| Site name: <u>CC1</u> Locality/property name: <u>SYDNEY WATER METROPOLITAN CATCHMENT</u> NPWS District: <u>SOUTHERN METROPOLITAN</u> Region: <u>CENTRAL</u> | | |
| Reason for investigation: <u>ROUTINE CATCHMENT INSPECTION</u> | | |
| Portion no: Parish: | | Photos taken? How many attached? |
| How to get to the site (refer to permanent features, give best approach to site eg. from above, below, along cliff. (Draw diagram on separate sheet.) <u>SHELTER LOCATED ON SOUTHERN BANK OF COW CREEK APPROX 400m EAST OF COW CREEK CROSSING AT FIRE ROAD 5, NARELLAN DAM.</u> | | |
| Other sites in locality? <u>Yes</u> Are sites in NPWS Register? <u>Yes</u> | | Site Types include: <u>ART SHELTERS ARE GROOVES, OPEN COMPLETES</u> |
| Have artefacts been removed from site? <u>When?</u> By whom? <u>Deposited where?</u> | | |
| Is site important to local Aborigines? <u>Yes</u> Give contact(s) name(s) + address(es) <u>ILLAWARRA LALC</u> | | |
| Contacted for this recording? <u>Yes</u> (Attach additional information separately) If not, why not? | | |
| Verbal/written reference sources (including full title of accompanying report) | | NPWS Report Catalogue # |
| Checklist: surface visibility, damage/disturbance/ threat to site | Condition of site: <u>SHELTER IMPACTED FROM CHANGES TO WATER FLUCTUATION, MAINLY CAUSED BY RUNOFF FROM FS FREEWAY. ART IS IN POOR CONDITION</u> | |
| Recommendations for management & protection (attach separate sheet if necessary): <u>1</u> | | |
| Site recorded by: <u>T. KOWDER</u> Address/institution: <u>SYDNEY WATER</u> <u>PO Box 3154 NARELLAN 2567</u> | | Date: <u>9/5/97</u> |

| | | |
|---|---|---|
| SITE POSITION & ENVIRONMENT | | OFFICE USE ONLY: NPWS site no: |
| 1. Land form a. beach / hill slope / ridge top, etc: d. mark on diagram provided or on your own sketch the position of the site: | | b. site aspect: <u>NW</u> c. slope: <u>Slight</u> e. Describe briefly: <u>Shelter on creekline below confluence of small tributary - on southern side of Cow Creek</u> |
| 1. Local rock type: <u>SANDSTONE</u> | | g. Land use/effect: <u>METROPOLITAN CATCHMENT AREA.</u> |
| 2. Distance from drinking water: <u>1m</u> | | Source: <u>COW CREEK</u> |
| 3. Resource Zone associated with site (estuaries, riverine, forest etc): | | |
| 4. Vegetation: <u>OPEN FOREST ON RIDGE TOP WITH CREEK COMMUNITIES ALONG CREEK LINE</u> | | |
| 5. Edible plants noted: <u>GEEBUNG, FERNS, LILLI PILLI,</u> | | |
| 6. Faunal resources (include shellfish): | | |
| 7. Other exploitable resources (river pebbles, ochre, etc): | | |
| Site type: <u>SHELTER/ART</u> <u>AXE GROOVE</u> | DESCRIPTION OF SITE & CONTENTS. Note state of preservation of site & contents. Do NOT dig, disturb, damage site or contents. <u>SHELTER - LENGTH - 29M.</u> <u>WIDTH - 5M.</u> <u>HEIGHT - 2.5M.</u> <u>ASPECT - North West.</u> <u>DEPOSIT - SMALL AREA, IN EASTERN SECTION.</u> <u>3x3M. with Depth 25-30cm. COLOUR BROWN/GREY</u> <u>HARD COMPACT. SANDY/LOAM.</u> <u>FLOOR HAS SOME DEGREE OF WASHOOT.</u> <u>NO ARTEFACTS VISIBLE.</u> <u>ART - IN VERY POOR CONDITION ALL CHARCOAL MOTIFFS ALL INDETERMINATE FIGURES. PARTLY COVERED BY WATER. MARKING & MOSSES ETC.</u> <u>AXE GROOVE - ONE GROOVE LOCATED ON LARGE BOLDER NEAR WATER POOL AT FRONT OF SHELTER. 29x9x2cm.</u> <u>Refer to SKETCH.</u> | |
| CHECKLIST TO HELP: length, width, depth, height of site, shelter, deposit, structure, element eg. tree scar, grooves in rock. DEPOSIT: colour, texture, estimated depth, stratigraphy, contents-shell, bone, stone, charcoal, density & distribution of these, stone types, artefact types. ART: area of surface decorated, motifs, colours, wet, dry pigment, technique of engraving, no. of figures, sizes, patination. BURIALS: number & condition of bone, position, age, sex, associated artefacts. TREES: number, alive, dead, likely age, scar shape, position, size, patterns, axe marks, regrowth. QUARRIES: rock type, debris, recognisable artefacts, percentage quarried. OTHER SITES EG. structures (fish traps, stone arrangements, bora mgs, msa mss), mythological sites, rock holes, engraved groove channels, contact sites (missions massacres cemeteries) as appropriate | Attach sketches etc. eg. plan & section of shelter, show relation between site contents, indicate north, show scale. Attach annotated photos (stereo where useful) showing scale, particularly for art sites. | |



Aboriginal Sites Register of NSW

NPWS, PO Box 1967, Hurstville NSW 2220
Standard Site Recording Form

New Recording ☒ Additional

information ☐

SITE IDENTIFICATION

| | | | | |
|---------------|--|-------|------------------|-----------|
| Site name | NICOLA | No 14 | NPWS Site Number | 52-2-3358 |
| Owner/manager | Sydney Catchment Authority | | | |
| Owner Address | PO Box 323 Penrith Business Centre NSW 2751 | | | |

LOCATION

| | | | | |
|------------------------------|---|-----------------------------|---------------------|---------------|
| Location | Nepean Catchment Area | | | |
| How to get to the site | Site location : a grinding site at the head of Cow Creek 50m from the crossing of Fire Road 5. It is 300m E of the Freeway and 1.2km N of the Avon Dam Road. Site position : in the creek bed. | | | |
| 1:250,000 map name | Wollongong | NPWS map code | 52 | |
| AMG Zone | 56 | AMG Easting | 280185 | AMG Northing |
| Method for grid reference | Hand-held GPS (GDA94 datum) | Map scale (if method = map) | 1:25,000 | Map name |
| NPWS District Name (see map) | Southern Metropolitan | | NPWS Zone (see map) | Southern Zone |
| Portion no. | | | Parish | Burke |

SITE DESCRIPTION

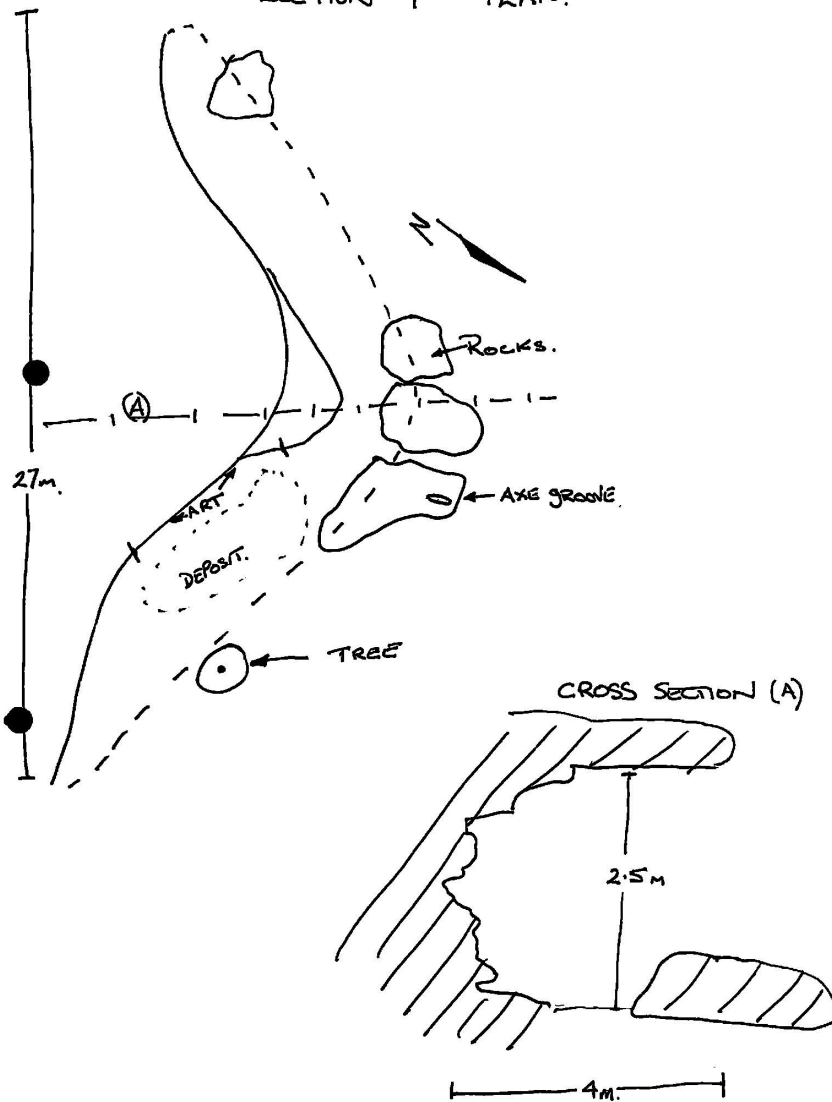
| Site type(s) | Grinding Grooves | Site type code (NPWS use only) | | | | | | | | | | |
|--|--|--------------------------------|-----------|---------|---|---|---|------------|--|---|--|--|
| Description of site and contents CHECKLIST eg. length, width, depth, height of site, shelter, deposit, structure, overhang eg. tree scar, grooves in rock, DEPOSIT colour, texture, estimated depth, stratigraphy, contents-shell, bone, stone, charcoal density & distribution of these, stone types, artefact types, ART area of decorated surface, motifs, colours, wet/dry pigment, engraving technique, no. of figures, sizes, patination, BURIALS number & condition of bone, position, age, sex, associated artefacts, TREES number, alive, dead, likely age, scar shape, position, size, patterns, axe marks, regrowth, QUARRIES rock type, debris, recognisable artefacts, percentage quarried | <p>Closed Site Size: L (m) W (m) H (m)</p> <p>Living Area (sq m): Site Formed By: Cavernous Weathering: Blockfall:</p> <p>Deposit: Depth (cm): Deposit Colour: Texture:</p> <p>Open Site Size (m) 8 x 3.5 Grinding Grooves: 11 Groove Size (cm) 33x8x2 Condition: Distinct</p> <p>Artefacts Present: 0 FGS: Silcrete: Quartz: Quartzite: Chalcedony</p> <p>Chert: Jasper Fossilised Wood: Igneous: Artefact Location:</p> <p>Art Condition: Art Surface:</p> <p>ART/DEPOSIT COMMENTS</p> <p>Grinding grooves are in a group of 10 at the outlet of a large water hole and one groove on its own at the edge of the pool. Representative Grinding Groove size = 33 x 8 x 2 cm. Total Grooves = 11</p> <p>General rubbish was present at the site.</p> <p>Further comments? No</p> <p>ART SUMMARY</p> <table border="1"> <thead> <tr> <th>Art Method</th> <th>Art Motif</th> <th>Art Nos</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td colspan="2">Total Art:</td> <td>0</td> </tr> </tbody> </table> | Art Method | Art Motif | Art Nos | 0 | 0 | 0 | Total Art: | | 0 | | |
| Art Method | Art Motif | Art Nos | | | | | | | | | | |
| 0 | 0 | 0 | | | | | | | | | | |
| Total Art: | | 0 | | | | | | | | | | |
| Attach photographs and sketches, eg. plan & section of shelter. Do NOT dig, disturb or damage site or contents. | | | | | | | | | | | | |

Version June 1998

Date entered by:

Date entered

SITE CC1 SECTION 9 PLAN.



0

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Aboriginal Sites Register of NSW

NPWS, PO Box 1967, Hurstville NSW 2220
Standard Site Recording Form

| SITE ENVIRONMENT | | | |
|--|---|--------------------------------------|--|
| Land form | Upper Basin | Aspect | Slope Gradual |
| Mark position of the site | | | |
| Local rock type | Hawkesbury sandstone | Land use/effect | Undeveloped catchment area |
| Distance from drinking water | 0 (m) | Source | Cow Creek |
| Resource zone (eg. estuarine, river, forest) | Woodland | Vegetation | Eucalyptus punctata Melaleuca linearifolia Leptospermum polygalifolia Allocasuarina torulosa |
| Edible plants | | Faunal resources (include shellfish) | Shell: No |
| Other exploitable resources (eg. ochre) | Ochre Source: No | Ochre Colour: | |
| Are there other sites in the locality | Yes | Are they in the Sites Register | Yes |
| | | Other site types include | Shelters with art/deposits, grinding grooves, rock engravings |
| SITE MANAGEMENT | | | |
| Site condition | Disturbed | Site Disturbance: Yes Type | Wombat: Rubbish: Y Feral: Graffiti: Other: |
| Management recommendations | | | |
| Have artefacts been removed from site | No | When | |
| By whom | | Deposited at | |
| Consent applied for | <input type="checkbox"/> | Consent issued | <input type="checkbox"/> |
| Date of issue | | Consent number | |
| SITE INSPECTION AND RECORDING | | | |
| Reason for investigation | Routine survey by Illawarra Prehistory Group | | |
| Were local Aborigines contacted or present for the recording | <input type="checkbox"/> Not contacted <input type="checkbox"/> Contacted and present <input checked="" type="checkbox"/> Contacted but not present | Names and addresses | Jim Davis, Senior Sites Officer, Illawarra Local Aboriginal Land Council 484 Northcliffe Dr., Berkeley NSW 2506 |
| Is the site important to local Aborigines | Yes | | |
| Verbal/written reference sources | Illawarra Prehistory Group diary Report on Nepean Catchment Area. | | ASR report number(s) (or title) C- C- |
| Photographs taken | Yes | | No. of Photos attached |
| Site recorded by | Caryll Sefton | | Date of recording |
| Address/institution | Illawarra Prehistory Group 12 Chenhall St WOONONA NSW 2517 Tel 02 4284 2004 | | |

Version: June 1998

Date entered by:

Date entered:







Aboriginal Sites Register of NSW

NPWS, PO Box 1967, Hurstville NSW 2220
Standard Site Recording Form

New Recording ☒ Additional
52-2-3353

| SITE IDENTIFICATION | | | | | | | | | | | | | | | | | | | | | |
|--|--|-----------------------------|---------------|------------|-----------|---------|-------------------|------|---|-------------------|----------------------|---|-------------------|----------|---|-------------------|---------------|----|------------|--|----|
| Site name | NICOLA | | No 15 | | | | | | | | | | | | | | | | | | |
| Owner/manager | Sydney Catchment Authority | | | | | | | | | | | | | | | | | | | | |
| Owner Address | PO Box 323 Penrith Business Centre NSW 2751 | | | | | | | | | | | | | | | | | | | | |
| LOCATION | | | | | | | | | | | | | | | | | | | | | |
| Location | Nepean Catchment Area | | | | | | | | | | | | | | | | | | | | |
| How to get to the site | Site location: a shelter 50m past the first southern side tributary of Cow Creek. It is 500m SE of the freeway and 300m E of Fire Road 5. Site position: under the first cliff line up from the creek, but half the shelter is in the creek, without deposit. | | | | | | | | | | | | | | | | | | | | |
| 1:250,000 map name | Wollongong | NPWS map code | 52 | | | | | | | | | | | | | | | | | | |
| AMG Zone | 56 | AMG Easting | 280423 | | | | | | | | | | | | | | | | | | |
| Method for grid reference | Hand-held GPS (GDA94 datum) | Map scale (if method = map) | 1:25,000 | | | | | | | | | | | | | | | | | | |
| NPWS District Name (see map) | Southern Metropolitan | NPWS Zone (see map) | Southern Zone | | | | | | | | | | | | | | | | | | |
| Portion no. | | Parish | Burke | | | | | | | | | | | | | | | | | | |
| SITE DESCRIPTION | | | | | | | | | | | | | | | | | | | | | |
| Site type(s) | Art Shelter | | | | | | | | | | | | | | | | | | | | |
| Description of site and contents CHECKLIST eg. length, width, depth, height of site, shelter, deposit, structure, element eg. tree scar, grooves in rock, DEPOSIT colour, texture, estimated depth, stratigraphy, contents-shell, bone, stone, charcoal, density & distribution of these, stone types, artefact types, ART area of decorated surface, motifs, colours, wet/dry pigment, engraving technique, no. of figures, sizes, patination, BURIALS number & condition of bone, position, age, sex, associated artefacts, *R.E.S. number, alive, dead, likely age, scar shape, position, size, patterns, axe marks, regrowth, QUARRIES rock type, debris, recognisable artefacts, percentage quarried | <p>Closed Site Size: L (m): 28 W (m): 4 H (m): 1.8 Site Faces: N Living Area (sq m): 8 Site Formed By: Cavernous Weathering: Y Blockfall: Y Deposit: Depth (cm): 10 Deposit Colour: Brown Texture: Loamy Sand Open Site Size (m): Grinding Grooves: 0 Groove Size (cm): Condition: Artefacts Present: 0 FGS: Silcrete: Quartz: Quartzite: Chalcedony: Chert: Jasper: Fossilised Wood: Igneous: Artefact Location: Art Condition: Poor Art Surface: Granular substrate loss, water damg.</p> <p>ART/DEPOSIT COMMENTS Art is present, as follows; 1. On the rear wall under a silica skin and in concavities above the deposit at the left hand end of the shelter is a total of 38 charcoal drawings in poor condition. This includes 2 birds and 1 frontal human figure. 2. In an alcove at the right hand end of the shelter are 3 charcoal outline and infill drawings, including 1 kangaroo.</p> <p>Further comments? No ART SUMMARY</p> <table border="1"> <thead> <tr> <th>Art Method</th> <th>Art Motif</th> <th>Art Nos</th> </tr> </thead> <tbody> <tr> <td>Charcoal Drawings</td> <td>Bird</td> <td>2</td> </tr> <tr> <td>Charcoal Drawings</td> <td>Human Figure Frontal</td> <td>1</td> </tr> <tr> <td>Charcoal Drawings</td> <td>Kangaroo</td> <td>1</td> </tr> <tr> <td>Charcoal Drawings</td> <td>Indeterminate</td> <td>37</td> </tr> <tr> <td colspan="2">Total Art:</td> <td>41</td> </tr> </tbody> </table> <p>Attach photographs and sketches, eg. plan & section of shelter. Do NOT dig, disturb or damage site or contents.</p> | | | Art Method | Art Motif | Art Nos | Charcoal Drawings | Bird | 2 | Charcoal Drawings | Human Figure Frontal | 1 | Charcoal Drawings | Kangaroo | 1 | Charcoal Drawings | Indeterminate | 37 | Total Art: | | 41 |
| Art Method | Art Motif | Art Nos | | | | | | | | | | | | | | | | | | | |
| Charcoal Drawings | Bird | 2 | | | | | | | | | | | | | | | | | | | |
| Charcoal Drawings | Human Figure Frontal | 1 | | | | | | | | | | | | | | | | | | | |
| Charcoal Drawings | Kangaroo | 1 | | | | | | | | | | | | | | | | | | | |
| Charcoal Drawings | Indeterminate | 37 | | | | | | | | | | | | | | | | | | | |
| Total Art: | | 41 | | | | | | | | | | | | | | | | | | | |

Version: June 1998

Data entered by:

Date entered:



Aboriginal Sites Register of NSW

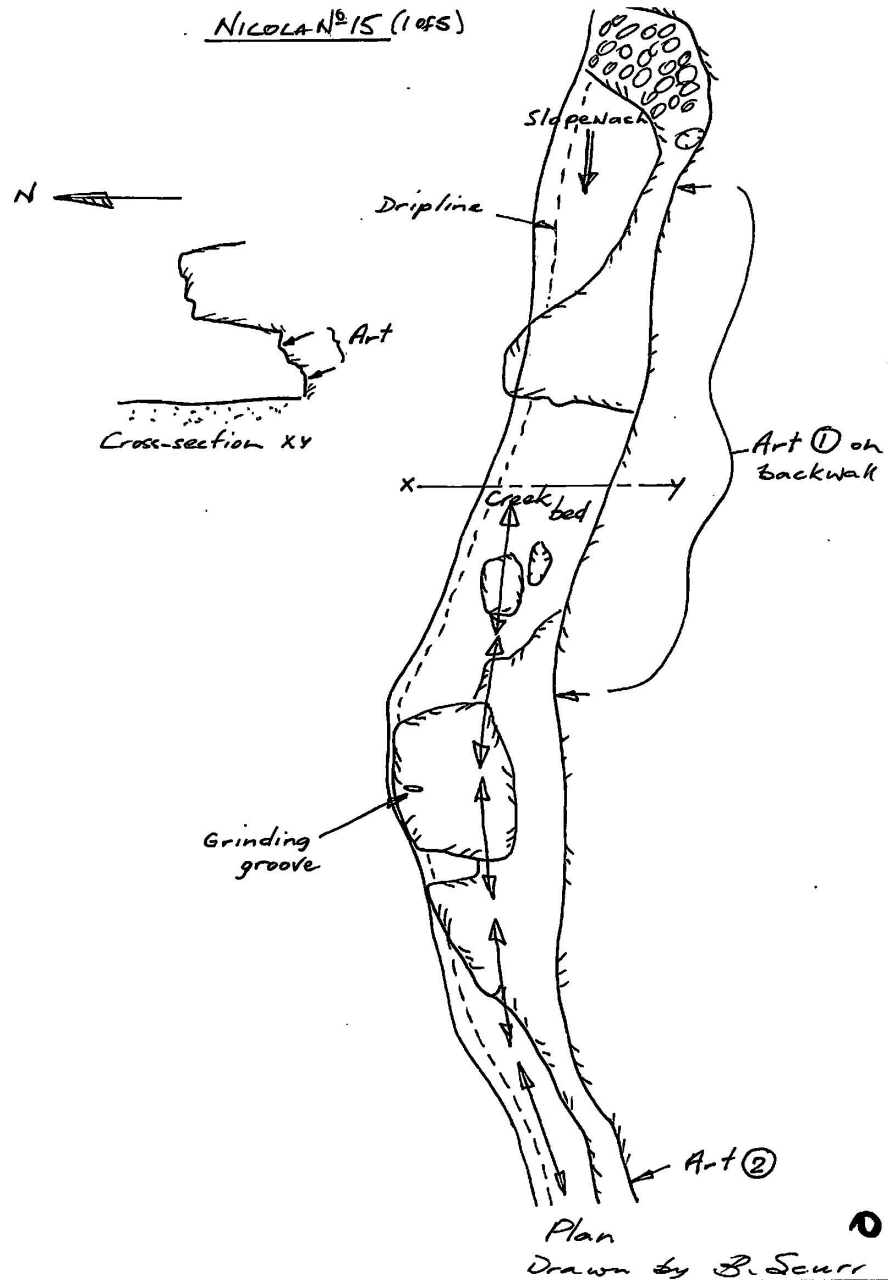
NPWS, PO Box 1967, Hurstville NSW 2220
Standard Site Recording Form

| SITE ENVIRONMENT | | | |
|--|---|--------------------------------------|--|
| Land form | Upper Valley Slope | Aspect | N |
| Mark position of the site | | | |
| Local rock type | Hawkesbury sandstone | Land use/effect | Undeveloped catchment area |
| Distance from drinking water | 0 (m) | Source | Cow Creek |
| Resource zone (eg. estuarine, river, forest) | Woodland | Vegetation | Eucalyptus pipenta Callicoma serratifolia Acacia elata |
| Edible plants | | Faunal resources (include shellfish) | Shell: No |
| Other exploitable resources (eg. ochre) | Ochre Source: No | Ochre Colour: | |
| Are there other sites in the locality | Yes | Are they in the Sites Register | Yes |
| Other site types include | Shelters with art/deposits, grinding grooves, rock engravings | | |
| SITE MANAGEMENT | | | |
| Site condition | Disturbed | Site Disturbance: Yes | Type: Wombat: Rubbish: Feral: Fireplace: Graffiti: Other: Creek flow |
| Management recommendations | | | |
| Have artefacts been removed from site | No | When | |
| By whom | | Deposited at | |
| Consent applied for | <input type="checkbox"/> | Consent issued | <input type="checkbox"/> |
| Date of issue | | Consent number | |
| SITE INSPECTION AND RECORDING | | | |
| Reason for investigation | Routine survey by Illawarra Prehistory Group | | |
| Were local Aborigines contacted or present for the recording | <input type="checkbox"/> Not contacted <input type="checkbox"/> Contacted and present <input checked="" type="checkbox"/> Contacted but not present | Names and addresses | Jim Davis, Senior Sites Officer, Illawarra Local Aboriginal Land Council 464 Northcliffe Dr., Berkeley NSW 2506 |
| Is the site important to local Aborigines | Yes | | |
| Verbal/written reference sources | Illawarra Prehistory Group diary Report on Nepean Catchment Area. | | |
| Photographs taken | Yes | A3R report number(s) (or title) | |
| Site recorded by | Caryll Sefton | No. of Photos attached | |
| Address/institution | Illawarra Prehistory Group 12 Chenhall St. WOONONA NSW 2517 Tel 02 4284 2004 | | |

Version: June 1998

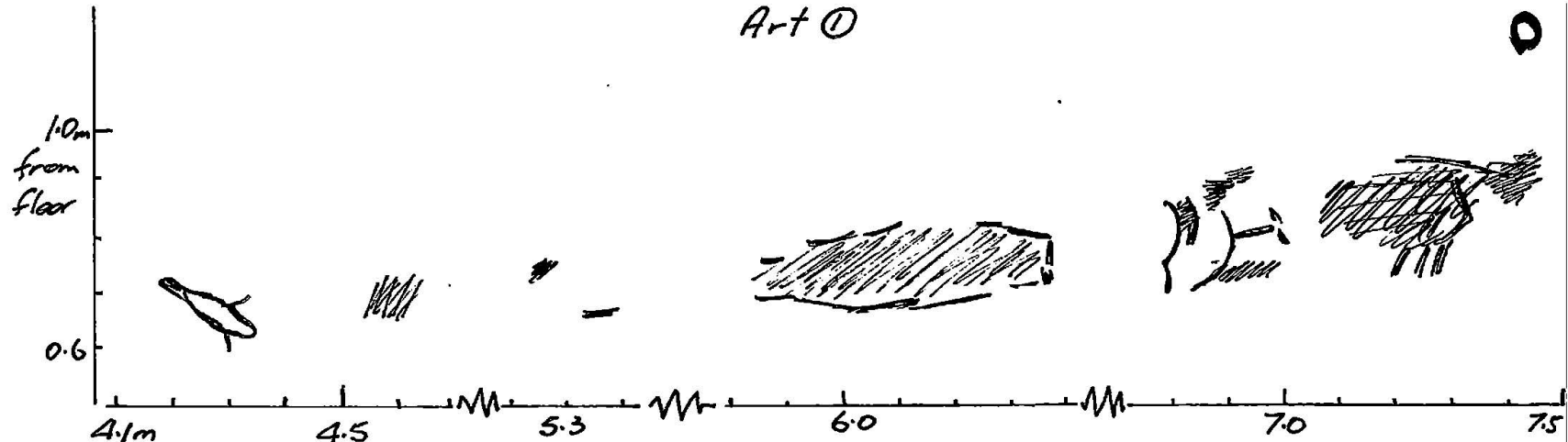
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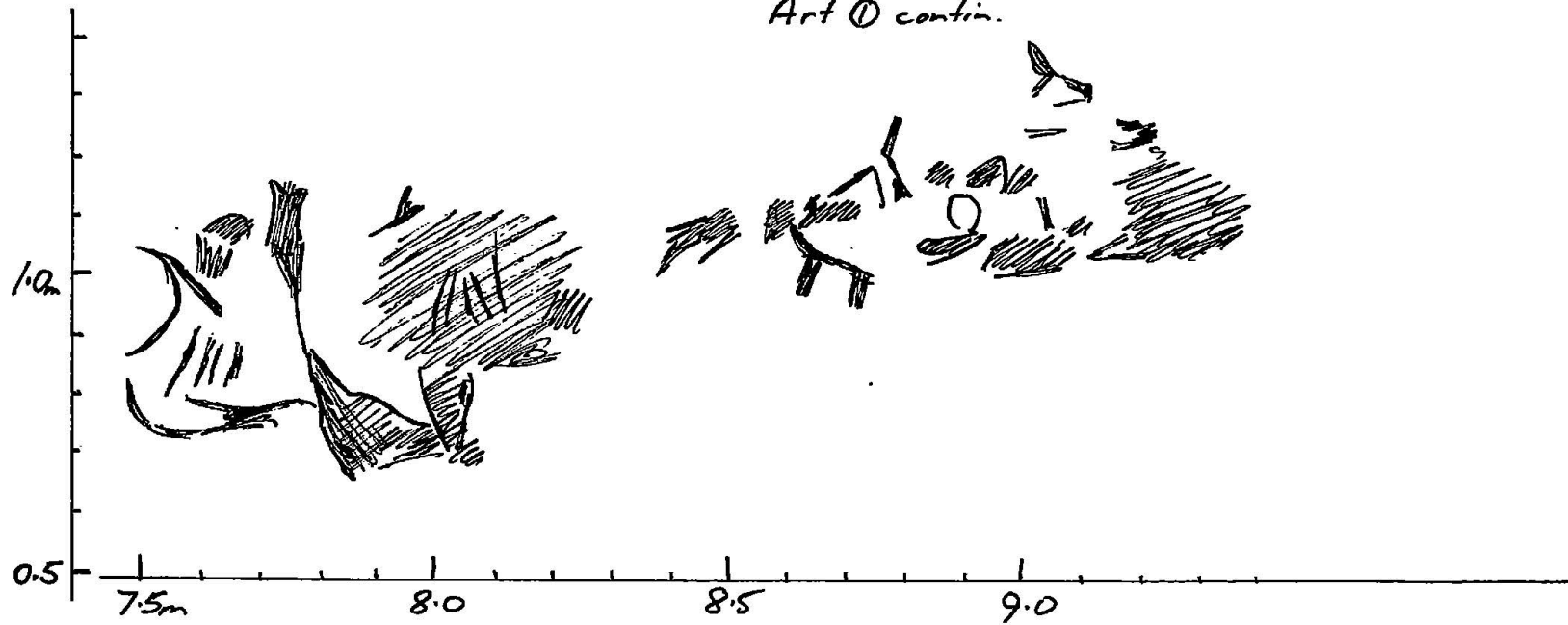


Art ①

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Art ① contin.



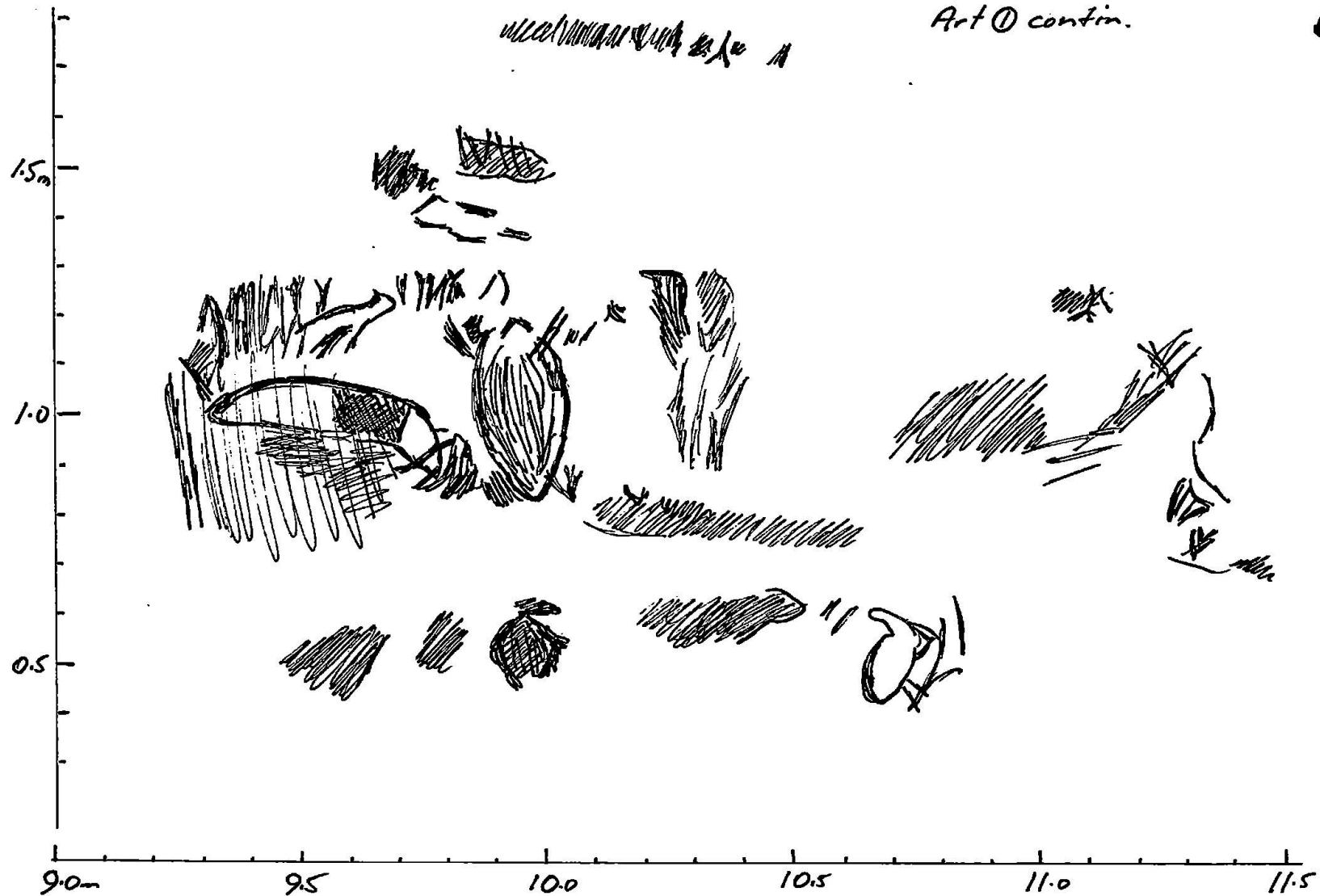
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Nicola N^o 15 (2 of 5)

Art ① contin.

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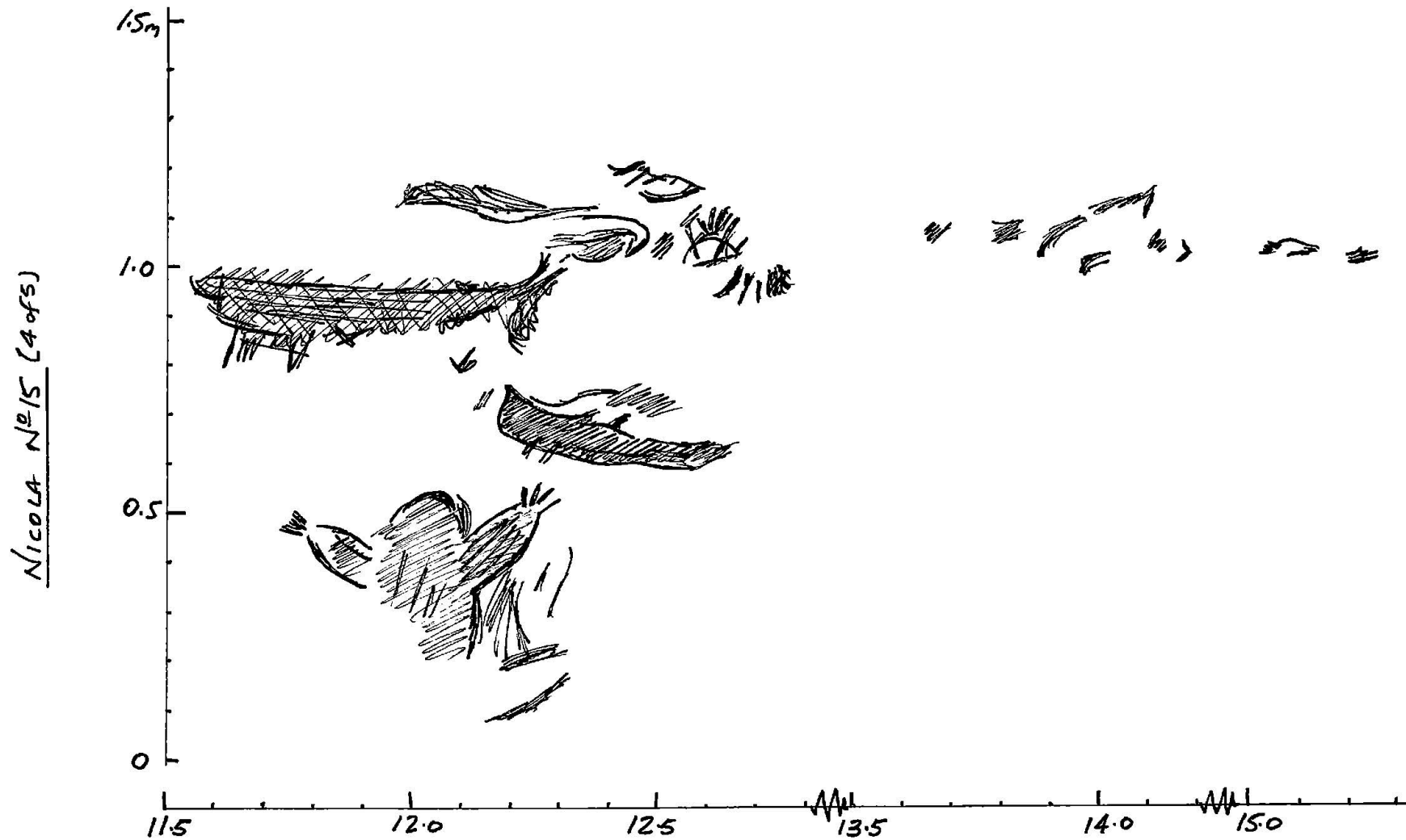
Nicola N°15 (3 of 5)



Drawn by B. Scurr

Art ① contin.

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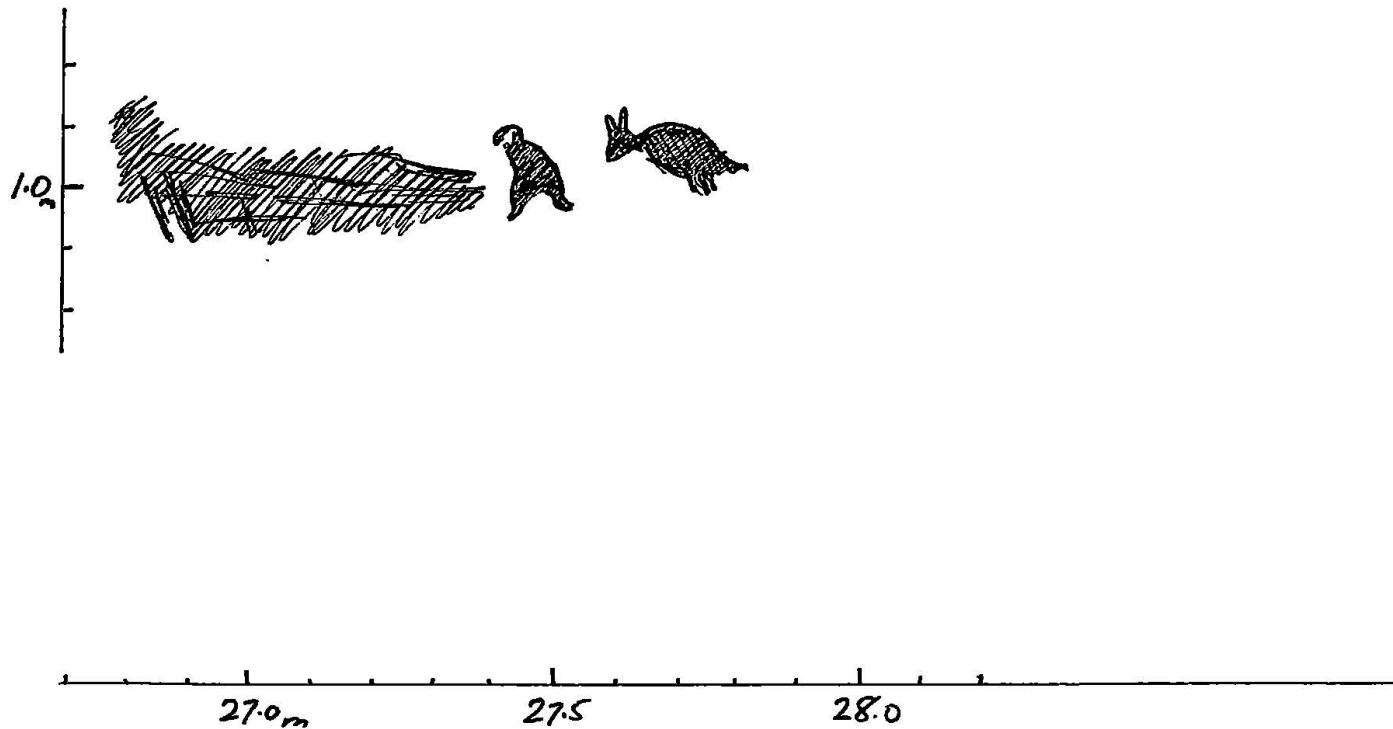


Drawn by B. Scurr

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Art ②

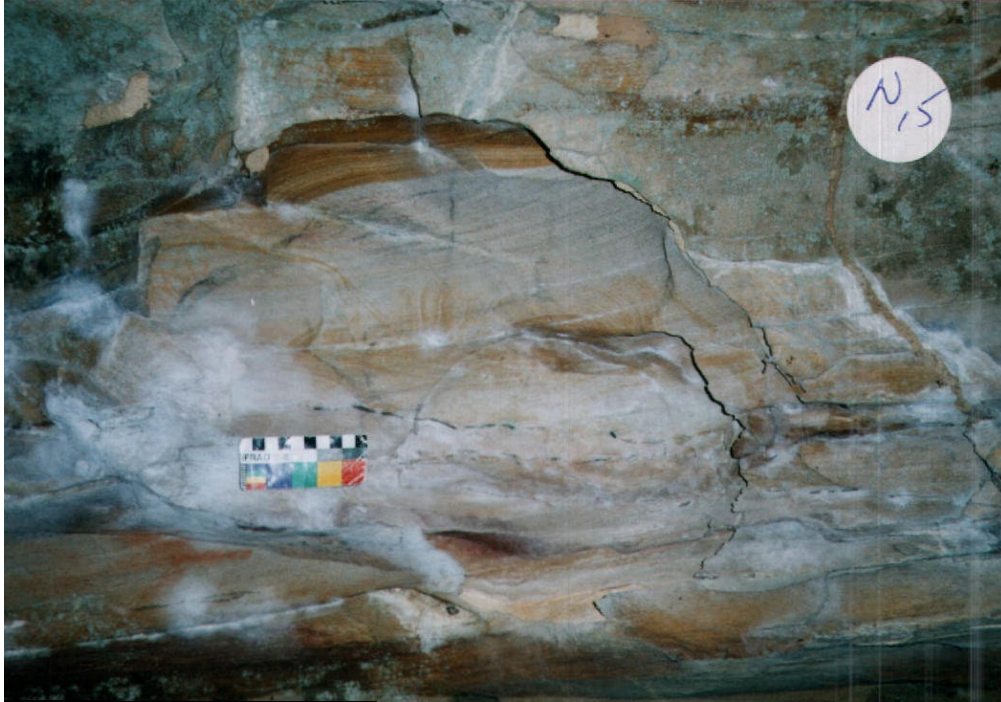
Nicola N^o 15 (5 of 5)

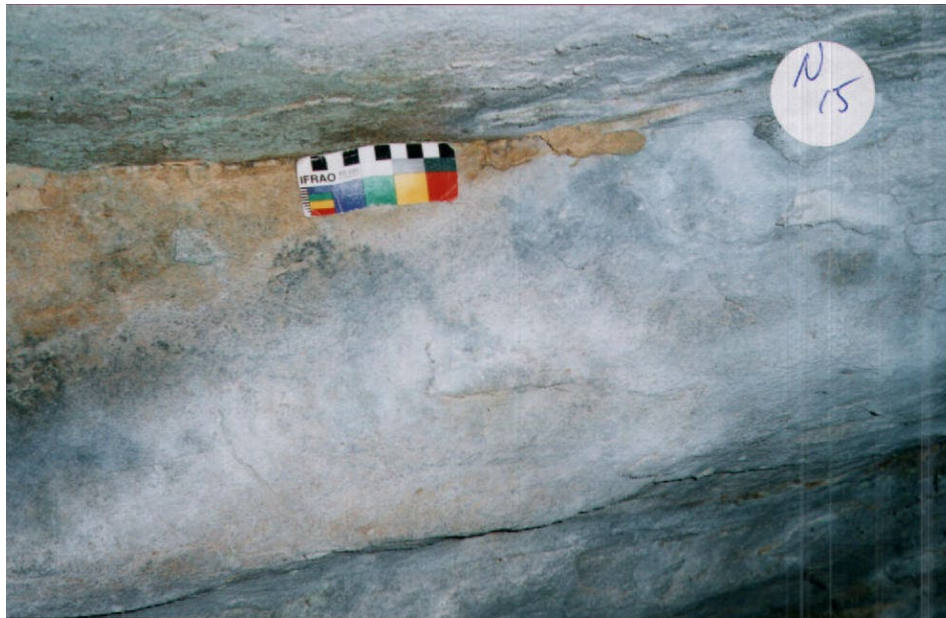


D. L. A. S.

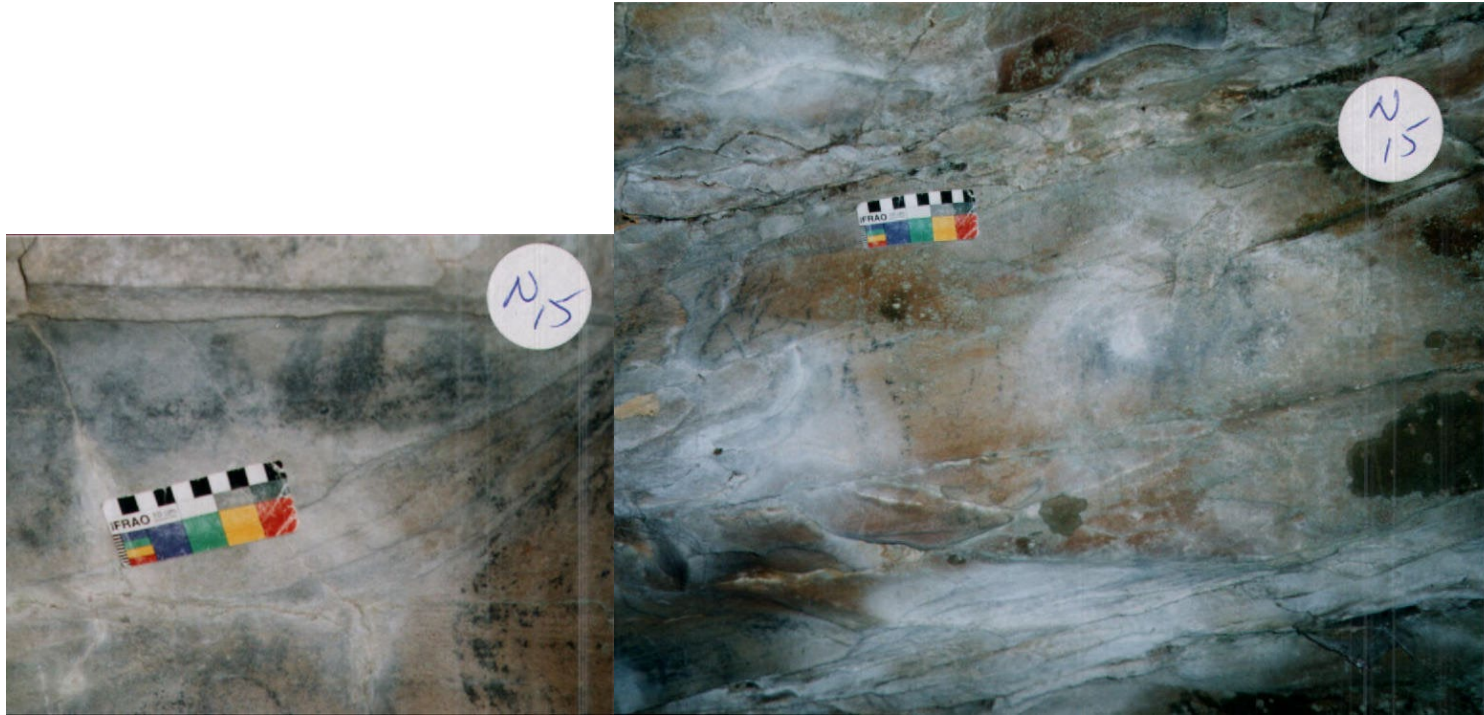






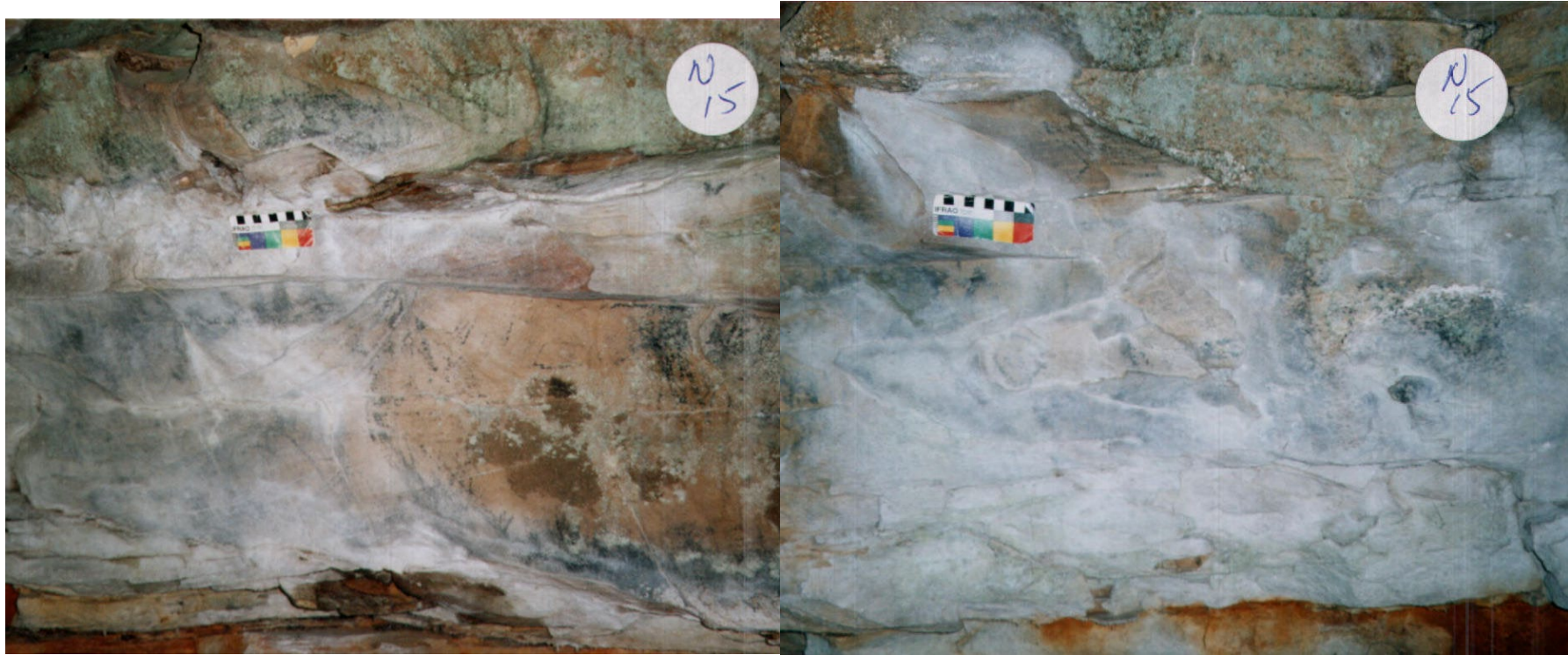












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Sydney
Brisbane
Cairns
Port Macquarie
Illawarra
Coffs Harbour
Central Coast
Gold Coast
Canberra



Our services

Ecology and biodiversity

Terrestrial
Freshwater
Marine and coastal
Research and monitoring
Wildlife Schools and training

Heritage management

Aboriginal heritage
Historical heritage
Conservation management
Community consultation
Archaeological, built and landscape values

Environmental management and approvals

Impact assessments
Development and activity approvals
Rehabilitation
Stakeholder consultation and facilitation
Project management

Environmental offsetting

Offset strategy and assessment (NSW, QLD, Commonwealth)
Accredited BAM assessors (NSW)
Biodiversity Stewardship Site Agreements (NSW)
Offset site establishment and management
Offset brokerage
Advanced Offset establishment (QLD)