

25 MOSS VALE ROAD, BOMADERRY, NSW

# ABORIGINAL ARCHAEOLOGICAL SALVAGE EXCAVATION REPORT

Report to Southern Cross Community Housing

Shoalhaven LGA

October 2025





## EXECUTIVE SUMMARY

Apex Archaeology were engaged by Southern Cross Community Housing to undertake an archaeological salvage excavation in accordance with the conditions outlined in AHIP #5144 for salvage excavation following issue of the Development Consent on 20 December 2022.

Prior to the salvage excavation program, the study area at 25 Moss Vale Road, Bomaderry, had been subject to a previous archaeological assessment by Austral Archaeology in 2022 as part of an Aboriginal Cultural Heritage Assessment (ACHA).

The Austral Archaeology (2022) ACHA identified two areas of potential archaeological deposit (PAD) within the study area. Test excavations completed by Austral Archaeology within these areas revealed a subsurface archaeological deposit within both areas. Higher densities were noted within the area located in the western portion of the study area. Three separate sites were registered as a result of the test excavation, and it was noted that artefact densities increased with proximity to the creek located along the western boundary of the site.

Three Aboriginal sites are registered within the study area. All three sites are recorded as artefact scatters. AHIMS site #52-5-0996 (Moss Vale Road artefact scatter 1) has been subject to partial harm, and AHIMS site #52-5-0997 (Moss Vale Road artefact scatter 2) has been subject to whole harm. Both sites are considered to have a total loss of value following salvage excavation, subsequent subdivision and construction of associated civil infrastructure and landscaping. Aboriginal objects within AHIMS site #52-5-0998 (Moss Vale Road artefact scatter 3) will not be harmed and will have no loss of value. This site was not subject to salvage excavation as it was to be conserved as part of the development. However, the site was included in the AHIP as vegetation management works were proposed within this area, and it is proposed to rebury artefacts recovered during the test and salvage excavations within the conservation area associated with this site and the riparian corridor. This location, which was identified by Austral as part of their 2022 assessment, was outside of the area of archaeological sensitivity and was not considered likely to impact on archaeological deposits.

The ACHA by Austral was submitted to Shoalhaven City Council as part of an Integrated Development Application for the site and was referred to Heritage NSW for their consideration and to allow them to issue the General Terms of Approval (GTAs). The GTAs were issued on 29 April 2022 following the receipt of additional information from Austral.

Subsequent to the issue of the GTAs, Southern Cross Community Housing engaged Apex Archaeology in February 2023 to prepare the required AHIP application and



undertake the subsequent salvage excavation within the property, following issue of the Development Consent on 20 December 2022.

An AHIP application and accompanying ACHMP were submitted by Apex Archaeology to Heritage NSW on 23 of May 2023. The AHIP was approved on 15 August 2023. Apex Archaeology then undertook the salvage excavations in accordance with the requirements of AHIP #5144.

This report was prepared in accordance with the requirements of AHIP #5144.

Subsequent to the issue of AHIP #5144, salvage of the area around TPs 10/24/25/26 (a 1m<sup>2</sup> pit excavated in four 50x50cm quadrats) and TPs 13, 21, 22, 27, and 28 (50x50cm pits) was undertaken, as these were considered to “serve as nuclei for [further] research... to inform our understanding of the Aboriginal occupation of these environments” (Austral 2022).

Contiguous 1m<sup>2</sup> excavation pits were excavated in 5cm spits to a maximum depth of 70cm across six separate open areas. Depths across the site ranged from 40 to 75cm due to the nature of the undulating soil landscape and slight slope on which the excavation area was located. The excavated material was sieved through 5mm aperture sieves to recover any material to inform the archaeological record.

Analysis of the assemblage was conducted by Beth White. The salvage excavations recovered 2047 cultural lithics, in addition to those recovered by Austral Archaeology during the test excavation stage in 2022. The archaeological salvage excavation undertaken within the site at 25 Moss Vale Road, Bomaderry identified a low density but relatively consistent artefact deposit, with higher densities identified in proximity to Bomaderry Creek.

The results of the salvage excavation suggest that the site was used for transitory occupation rather than as a base camp utilised for lengthy periods, which is in contrast to the results of other excavations in the Shoalhaven area. This is supported by the relatively lower densities of artefacts identified within the current study area in comparison to the higher densities at sites within primary resource zones as proposed by Clarke and Kuskie (2005).

The assemblage contained few backed artefacts and rather comprised a highly fragmentary assemblage, likely due to the flawed nature of the materials utilised, although heat breakage was noted to be substantial. The assemblage is considered to represent one of expedience rather than specialisation in terms of artefact production.

The flakes and cores that were recovered at 25 Moss Vale Road suggest that initial reduction and core preparation was likely to have been undertaken, rather than systematic production of flakes of regular shapes and sizes for backed artefact manufacture such as that seen at 126 Taylors Lane.



Sites in the Cambewarra region have varying but generally low proportions of silcrete and quartzite and high (but varying) proportions of chert/FGS materials, whilst those south of the Shoalhaven River had access to locally available quartz pebbles and this material was routinely used. The site at the study area fits with this local model (higher proportions of FGS) for areas north of the Shoalhaven River.

In general, the assemblage recovered from 25 Moss Vale Road is considered to represent a low density artefact deposit from intermittent use of the area.

Based on the results of the salvage works, the following conclusions can be drawn:

- From the results of archaeological testing conducted in 2022 by Austral Archaeology, six test pits within the current study warranted salvage excavation (Austral TPs 10/24/25/26 [inclusive], 21, 13, 22, 27 and 28).
- A number of 2,047 cultural lithics were recovered from the salvage excavation across six Open Areas (OAs).
- Excavation focused on the recovery of a substantial, high density scatter of FGS material at which small-scale flaking, discard and breakage activities occurred.
- While there may have been some spatial displacement by modern agricultural activities, the continuous spread of objects of diverse material types suggests numerous repeat visits, with activities carried out in many locations, usually overlapping spatially.
- Activities within the study area included processing of locally-occurring nodules as cores for use elsewhere, as well as some core flaking, tool maintenance, and discard of backed artefacts which were made elsewhere.
- Based on the analysis of backed artefacts within the wider region, backed artefacts from Cambewarra are relatively short and tend to be wider, this could be due to either the use of flawed FGS material or alternatively due to people making particular sizes to be hafted into pre-made composite implements such as knives or spears.
- FGS was the predominant material among excavated artefacts, comprising 82% of all cultural lithics recovered. Small numbers of other materials including silcrete, quartz, quartzite, silicified tuff, silicified wood and unidentified materials made up 18% of the assemblage.
- Vertical distribution of artefacts shows that most objects occur in Spits 5 and 6 (OA3, OA6), however, artefacts were distributed between Spits 3 to 8 at OA4 and Spits 3 to 7 at OA5.
- FGS is strongly dominant in the upper and lower deposits in each of the larger excavation areas. The proportions of FGS vary by only 2-3% between the upper and lower deposits, except in OA5 where FGS is less frequent (by 7%) in the deeper deposit than in the upper deposit
- The average density data of sites within the region suggests that the artefact concentration at the study area is within the range of variation shown by sites



associated with the Shoalhaven River, although it is noted to be at the lower end of densities.

Overall, this salvage report provides details of the salvage excavations undertaken at 25 Moss Vale Road, Bomaderry, on behalf of Southern Cross Community Housing; and no further archaeological work is recommended for the site prior to development commencing.



Apex Archaeology would like to acknowledge the Aboriginal people who are the traditional custodians of the land in which this project is located. Apex Archaeology would also like to pay respect to Elders both past and present.

Revision	Prepared by	Reviewed by	Comment	Issue Date
1 – Draft	Peta Rice	Jenni Bate	Initial Draft	18 April 2025
2 – Draft	Jenni Bate		Issue for client review	2 May 2025
3 – Draft	Jenni Bate	SCCH	Issue for RAP review	15 September 2025
4 – Final	Jenni Bate	RAPs	Issue of final	16 October 2025



## GLOSSARY OF TERMS

<b>Aboriginal Object</b>	An object relating to the Aboriginal habitation of NSW (as defined in the NPW Act), which may comprise a deposit, object or material evidence, including Aboriginal human remains.
<b>ACHA</b>	Aboriginal Cultural Heritage Assessment
<b>ACHMP</b>	Aboriginal Cultural Heritage Management Plan
<b>AHIMS</b>	Aboriginal Heritage Information Management System detailing known and registered Aboriginal archaeological sites within NSW
<b>AHIP</b>	Aboriginal Heritage Impact Permit
<b>ASIRFs</b>	Aboriginal Site Impact Recording Forms
<b>BASI</b>	Backed artefact symmetry index
<b>BP</b>	Before Present, defined as before 1 January 1950.
<b>Code of Practice</b>	The DECCW September 2010 <i>Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales</i>
<b>Consultation</b>	Aboriginal community consultation in accordance with the DECCW April 2010 <i>Aboriginal cultural heritage consultation requirements for proponents 2010</i> .
<b>DA</b>	Development Application
<b>DCCEEW</b>	The Department of Climate Change, Energy, the Environment and Water
<b>DECCW</b>	The Department of Environment, Climate Change and Water
<b>Disturbed Land</b>	If land has been subject to previous human activity which has changed the land's surface and are clear and observable, then that land is considered to be disturbed
<b>Due Diligence</b>	Taking reasonable and practical steps to determine the potential for an activity to harm Aboriginal objects under the <i>National Parks and Wildlife Act 1974</i> and whether an application for an AHIP is required prior to commencement of any site works, and determining the steps to be taken to avoid harm
<b>Due Diligence Code of Practice</b>	The DECCW Sept 2010 <i>Due Diligence Code of Practice for the Protection of Aboriginal Objects in New South Wales</i>
<b>GIS</b>	Geographical Information Systems
<b>GSV</b>	Ground Surface Visibility
<b>GTAs</b>	General Terms of Approval
<b>Harm</b>	To destroy, deface or damage an Aboriginal object; to move an object from land on which it is situated, or to cause or permit an object to be harmed
<b>HNSW</b>	Heritage New South Wales in the Department of Climate Change, Energy, the Environment and Water
<b>IDA</b>	Integrated Development Application
<b>ka</b>	Kiloannus, a unit of time equating to 1,000 years
<b>LALC</b>	Local Aboriginal Land Council
<b>NPW Act</b>	NSW <i>National Parks and Wildlife Act 1974</i>
<b>OEH</b>	The Office of Environment and Heritage
<b>PAD</b>	Potential archaeological deposit
<b>RAPs</b>	Registered Aboriginal Parties



## CONTENTS

<b>1.0</b>	<b>Introduction</b> .....	<b>1</b>
1.1	Study Area.....	1
1.2	Background.....	1
1.3	Previous Archaeological Assessment .....	5
1.3.1	Austral Archaeology 2022 .....	5
1.4	Investigators and Contributors .....	9
<b>2.0</b>	<b>Aboriginal Consultation</b> .....	<b>10</b>
<b>3.0</b>	<b>Methodology</b> .....	<b>11</b>
3.1	Staged Salvage Excavation .....	11
3.1.1	Re-location and expansion of Austral Archaeology Test Pits – Stage One .....	11
3.1.2	Open Area Salvage – Stage Two.....	11
3.1.3	Excavation Methodology .....	12
3.2	Recording.....	14
3.3	Artefacts and Chain of Custody .....	14
3.4	Cessation of Excavation.....	15
3.5	Backfill and Salvage Excavation .....	15
3.6	Post-Excavation Analysis.....	17
3.7	Research Questions.....	17
<b>4.0</b>	<b>Excavation Results</b> .....	<b>18</b>
4.1	Open Areas .....	18
<b>5.0</b>	<b>Lithic Analysis Background</b> .....	<b>25</b>
5.1	Context for the Lithics Analysis – an occupation model for the Shoalhaven region .....	25
5.1.1	Occupation model based in environmental economy .....	25
5.1.2	Towards a social model of occupation .....	27
<b>6.0</b>	<b>Stone Materials and their Potential Resources</b> .....	<b>28</b>
6.1	Fine Grained Siliceous – FGS.....	28
6.2	Silicified Tuff.....	31
6.3	Silcrete .....	32
6.4	Quartzite/Medium Grained Siliceous .....	33



6.5	Quartz .....	33
6.6	Silicified Wood (fossil or petrified wood) .....	34
6.7	Other materials .....	35
6.8	Materials in excavation areas .....	35
6.9	Types of Objects.....	36
6.9.1	Hammerstone.....	36
6.9.2	Backed Artefacts .....	37
6.9.3	Other Retouched Artefacts .....	39
6.9.4	Edge-damage and possible use wear .....	42
6.9.5	Cores .....	43
6.9.6	Unretouched flakes and proximal broken flakes.....	46
6.9.7	Breakage .....	47
6.9.8	Types of objects in excavation areas .....	49
6.10	Density and distribution of objects at 25 Moss Vale Road .....	51
6.10.1	Distribution of objects .....	51
6.10.2	Distribution of modified artefacts.....	54
6.10.3	Distribution of material types .....	57
6.11	Vertical distribution of the assemblage .....	60
6.11.1	Counts and weights of objects with depth of deposit.....	60
6.11.2	Material Types with depth of deposit.....	61
6.11.3	Types of objects with depth of deposit .....	63
6.12	Comparison with other sites .....	64
6.12.1	Comparative studies .....	64
6.12.2	Extent of excavation and artefact density.....	65
6.12.3	Types of objects and flaking technology .....	67
<b>7.0</b>	<b>Research questions.....</b>	<b>74</b>
7.1	Interpretations from the test excavation .....	74
7.2	Question 1: Artefact concentrations.....	74
7.3	Questions 2 and 3: Artefact Density.....	75
7.4	Question 4: Nature of site use.....	76
7.5	Question 5: Comparison with other sites .....	77



7.6	Lithic Results Summary.....	78
<b>8.0</b>	<b>Significance Assessment.....</b>	<b>80</b>
8.1	Assessment Criteria.....	80
8.2	Archaeological Significance Assessment.....	81
8.3	Site Management.....	81
<b>9.0</b>	<b>AHIP Conditions .....</b>	<b>83</b>
9.1	Salvage Excavations .....	83
9.2	Minimisation of Harm .....	83
9.3	Aboriginal Site Impact Recording Forms.....	83
9.4	Management of Excavated Artefacts .....	83
9.5	Salvage Report.....	83
<b>10.0</b>	<b>Conclusions .....</b>	<b>85</b>
<b>11.0</b>	<b>References .....</b>	<b>86</b>

## **APPENDICES**

**Appendix A: Artefact Catalogue**

**Appendix B: ASIRFs**

**Appendix C: Aboriginal Consultation**



## FIGURES

Figure 1: Aboriginal sites in relation to the proposed development layout as identified by Austral Archaeology (Source: Austral Archaeology 2022) .....	3
Figure 2. Location of Test Pits with artefact numbers across the study area (Source: Austral Archaeology 2022, Figure 5.1) .....	7
Figure 3. Location of three separate artefact scatters, registered AHIMS sites #52-5-0996, #52-5-0997 and #52-5-0998 (Source: Austral Archaeology 2022, Figure 5.14) .....	8
Figure 4: Austral Archaeology revised site boundary (Source: Austral Archaeology 2022 Figure 5.15).....	9
Figure 5. Test pits identified for further investigation (Source: Austral Archaeology 2022 with Apex Archaeology additions) .....	12
Figure 6: Location for artefacts to be reburied within the study area. ....	16
Figure 7. Test pits identified for further investigation within their registered site boundaries, in line with Figure 3 (Source: Austral Archaeology 2022 with Apex Archaeology additions) .....	18
Figure 8: Materials in excavation areas, by % frequency. OA1 and OA2 not included due to small sample sizes.....	36
Figure 9: Length and maximum width of complete backed artefacts at 25 Moss Vale Road and 126 Taylors Lane. ....	39
Figure 10: Materials and platforms on unretouched artefacts, by % frequency. Note that one faceted platform is included with scarred platforms. ....	46
Figure 11: Complete versus broken artefacts by materials, by % frequency .....	48
Figure 12: General breakage categories by materials by % frequency .....	48
Figure 13: General categories of objects in excavation areas, by % frequency. OA1 and OA2 not included due to small sample sizes. ....	49
Figure 14: Classified platforms on FGS artefacts in larger excavation areas, by % frequency. ....	51
Figure 15: Spatial distribution of all objects. Counts in original test pits added to Pit 1 of each OA (e.g. OA3 pit 1 has 11 objects + 38 from the original test excavation). Not to scale. ....	52
Figure 16: Spatial distribution of flaked artefacts. Not to scale.....	53
Figure 17: Spatial distribution of other broken objects. Does not include counts in original test pits as this category of breakage was not reported by Austral Archaeology 2022. Not to scale. ....	53
Figure 18: Spatial distribution of heat shatters and heat shatters with remnant flaked surfaces. Does not include counts in original test pits as heat shatters were not reported by Austral Archaeology 2022. Not to scale. ....	54
Figure 19: Spatial distribution of backed artefacts. Not to scale.....	55
Figure 20: Spatial distribution of other retouched artefacts. Not to scale.....	56
Figure 21: Spatial distribution of cores. Not to scale. ....	56
Figure 22: Spatial distribution of tuff objects. Not to scale.....	57
Figure 23: Spatial distribution of silcrete objects. Not to scale. ....	58
Figure 24: Spatial distribution of quartzite objects. Not to scale. ....	58
Figure 25: Spatial distribution of quartz objects. Not to scale. ....	59
Figure 26: Spatial distribution of silicified wood objects. Not to scale. ....	59
Figure 27: Spatial distribution of other material types of objects. Not to scale. ....	60
Figure 28: Vertical distribution of objects by count in excavation areas. ....	61



Figure 29: Vertical distribution of objects by weight in excavation areas.....	61
Figure 30: Materials with depth of deposit, summary spits, by % frequency. OA1 and OA2 not included due to small sample size.....	62
Figure 31: General categories with depth of deposit, summary spits, by % frequency. OA1 and OA2 not included due to small sample sizes. ....	63
Figure 32: Locations of 126 Taylors Lane, 25 Moss Vale Road, Bomaderry Creek rock shelter and Nowra Bridge sites. Base map Berry 1:25,000 scale topographic map sheet, sourced from Memory Map. ....	66
Figure 33: Maximum and average densities in comparative samples. ....	67
Figure 34: 27% frequency of Backed artefacts and other retouched artefacts in comparative samples.....	69
Figure 35: Platform types on unretouched flakes and proximal broken flakes at 25 Moss Vale Road and 126 Taylors Lane, by % frequency.....	71
Figure 36: Dorsal platform angles on unretouched complete flakes from 25 Moss Vale Road and 126 Taylors Lane, by % frequency.....	72
Figure 37: Platform depth on unretouched complete flakes from 25 Moss Vale Road and 126 Taylors Lane, by % frequency.....	72
Figure 38: Model relating dorsal (exterior) platform angle and platform depth to shape and size of flakes. From Lin et al. 2013 .....	73
Figure 39: Original site layout as approved by DA SF10851. ....	82
Figure 40: Site Masterplan for SSD .....	82

## PLATES

Plate 1: Open area 1 (5m <sup>2</sup> ). ....	19
Plate 2: Aerial image of Open Area 2 (5m <sup>2</sup> ). ....	20
Plate 3: Aerial of Open area 3 (22m <sup>2</sup> ). ....	20
Plate 4: Aerial image of Open Area 4 (16m <sup>2</sup> ). ....	21
Plate 5: Open area 5 (9m <sup>2</sup> ). ....	21
Plate 6: Aerial image of Open Area 6 (12m <sup>2</sup> ). ....	22
Plate 7: Plough or ripper lines within salvage pit.....	23
Plate 8: In situ artefact (marked by smaller scale) with visible plough lines in OA3.....	23
Plate 9: Wombat burrow at Austral TP 10/24/25/26 (OA 3).....	24
Plate 10: Wombat burrow at OA 3 .....	24
Plate 11: FGS broken flake ID65.....	29
Plate 12: FGS flake ID450 .....	29
Plate 13: FGS flake ID451 .....	29
Plate 14: FGS broken flake right side ID478. ....	29
Plate 15: FGS broken flake ID1522.....	29
Plate 16: FGS broken piece ID780.....	29
Plate 17: FGS weathered broken nodule ID160.....	30
Plate 18: Assayed FGS weathered nodule ID1663.....	30
Plate 19: Retouched FGS recycled broken piece ID1685.....	30
Plate 20: Possible tuff flake ID1728. ....	32
Plate 21: Possible tuff cone-split broken flake right side ID100. ....	32
Plate 22: Silcrete cone-split broken flake right side ID127.....	32
Plate 23: Silcrete flake ID534.....	32



Plate 24: Silcrete flake ID548.....	32
Plate 25: Quartzite flake ID816.....	33
Plate 26: Quartzite flake ID144.....	33
Plate 27: Quartzite piece ID839.....	33
Plate 28: Quartz cone-split broken flake refits ID263 and ID274.....	34
Plate 29: Quartz cone-split broken flake right side ID1540.....	34
Plate 30: Silicified wood cone-split broken flake left side ID1258.....	34
Plate 31: Silicified wood core fragment ID1027.....	34
Plate 32: Possible volcanic flake ID1543.....	35
Plate 33: Igneous broken cobble ID1888.....	35
Plate 34: Quartzite hammerstone ID102.....	37
Plate 35: Backed artefact ID143.....	38
Plate 36: Backed artefact ID533.....	38
Plate 37: Backed artefact ID724.....	38
Plate 38: Backed artefact ID1598.....	38
Plate 39: Backed artefact ID2040.....	38
Plate 40: Backed artefact ID723.....	39
Plate 41: Backed artefact ID730.....	39
Plate 42: Retouched quartzite cobble ID936 and 985, refit.....	40
Plate 43: Notched retouched artefact ID61.....	40
Plate 44: Notched retouched artefact ID1556.....	41
Plate 45: Notched retouched broken artefact silicified wood ID1736.....	41
Plate 46: Notched retouched broken artefact FGS ID1784.....	41
Plate 47: Notched retouched FGS flake ID1930.....	41
Plate 48: Retouched artefact ID204.....	41
Plate 49: Retouched artefact ID271. From OA3 pit 8 spit 9. Scale 10 mm long in 1 mm increments.....	42
Plate 50: Possible use-wear FGS cone-split broken flake left side FGS ID380.....	42
Plate 51: Possible use-wear FGS broken flake ID861.....	42
Plate 52: Possible use-wear medial fragment FGS ID1859. From OA6 pit 6 spit 5. Scale 10 mm long in 1 mm increments.....	43
Plate 53: Quartzite cone-split broken flake left side struck from possible tool ID1593. Curved line indicates possible polish. From OA5 pit 7 spit 8. Scale 30 mm long in 10 mm increments.....	43
Plate 54: Nodule core FGS ID519.....	45
Plate 55: Pebble core quartz ID1578.....	45
Plate 56: Core FGS ID363.....	45
Plate 57: Core FGS ID708.....	45
Plate 58: Broken bifacial core FGS ID970. From OA4 pit 5 spit 3. Scale 10 mm long in 1 mm increments.....	45
Plate 59: Bipolar silcrete core ID1334. From OA4 pit 13 spit 4. Scale 10 mm long in 1 mm increments.....	45



## TABLES

Table 1: Artefact count per positive test pit (Source: Austral Archaeology 2022 Table 5.2) ..	6
Table 2: Total excavation area and number of recovered artefacts from OA1, 2, 4, 5 and 6. .....	18
Table 3: Materials and cortex.....	28
Table 4: Materials in excavation areas.....	36
Table 5: Materials and types of objects.....	37
Table 6: Cores – materials and core body (type). ....	44
Table 7: Cores – Size and core body (type).....	44
Table 8: Cores – Materials and flaking pattern.....	44
Table 9: Materials and platforms on retouched flakes. ....	46
Table 10: Materials and dorsal platform angles on retouched flakes.....	47
Table 11: General categories of objects in excavation areas. ....	49
Table 12: Types of artefacts in excavation areas. ....	50
Table 13: Flaking patterns on cores in excavation areas.....	50
Table 14: Platforms on FGS artefacts in larger excavation areas. ....	50
Table 15: Summary data on the densities of objects in the open areas excavations. ....	51
Table 16: Materials with depth of deposit in larger excavation areas, summary spits.....	62
Table 17: General categories with depth of deposit in larger excavation areas, summary spits. .....	63
Table 18: Modified artefacts with depth of deposit, all excavation areas combined. ....	64
Table 19: Comparative analysis – Extent of excavations and total objects. ....	67
Table 20: Comparative analysis – artefacts and other objects.....	68
Table 21: Comparative analysis – Backed artefacts. ....	69
Table 22: Comparative analysis – Core types (bodies).....	70
Table 23: Comparative analysis – Core flaking patterns.....	70
Table 24: Comparative analysis – Platforms on unretouched flakes and proximal broken flakes. ....	71
Table 25: Comparative analysis – Dorsal platform angle on unretouched complete flakes. 71	
Table 26: Comparative analysis – Platform depth (mm) on unretouched complete flakes..	72
Table 27: Comparison of densities of objects from testing and salvage excavations.....	75
Table 28. Grading of significance, from Heritage Branch 2009. ....	80



## 1.0 INTRODUCTION

Apex Archaeology has been engaged to assist Southern Cross Community Housing in a salvage excavation at 25 Moss Vale Road, Bomaderry, legally defined as Lot 1 DP 520502, Lot 110 DP 131219 and Lot 129 DP 3060 (hereafter referred to as the study area) for proposed subdivision and construction of associated infrastructure.

An archaeological investigation was conducted by Austral Archaeology Pty Ltd in 2021. An initial survey did not identify any Aboriginal artefacts or sites due to poor visibility across the study area, however, two areas of PAD were identified within the study area.

Subsequent to the survey, test excavation was conducted by Austral over four days between 18 January and 27 January 2021. Of the 31 test pits excavated, 20 contained cultural material, and most test pits contained low density artefact numbers, however those closer to the creek contained higher density artefact numbers. An Aboriginal Cultural Heritage Assessment (ACHA) was prepared in 2022, which recommended an application for an Aboriginal Heritage Impact Permit (AHIP) to cover the study area. This AHIP permitted salvage excavations at AHIMS sites #52-5-0996 and #52-5-0997, along with subsequent impact to those sites as well as partial impact to AHIMS site 52-5-0998.

Apex Archaeology were then engaged by Southern Cross Community Housing to prepare the AHIP application and conduct salvage excavations in accordance with the requirements of AHIP #5144, which was granted to allow salvage excavations and subsequent development of the site. This report details the results of those salvage excavations.

### 1.1 STUDY AREA

The project is located within the Shoalhaven Local Government Area (LGA). The study area is located at 25 Moss Vale Road, Bomaderry, and is legally defined as Lot 1 DP 520502, Lot 110 DP 131219 and Lot 129 DP 3060. It covers an area of approximately 8.065 hectares and is bound by Moss Vale Road to the northeast, Bomaderry Creek Regional Park to the south, and existing properties to the west, with the area being roughly triangular. The investigation area comprises the whole area for proposed subdivision and construction of associated infrastructure.

### 1.2 BACKGROUND

The study area at 25 Moss Vale Road, Bomaderry, has been subject to a previous archaeological assessment prepared by Austral Archaeology (2022) which identified two areas of Potential Archaeological Deposit (PAD) within the study area. Test excavation within these areas revealed a subsurface archaeological deposit within both areas. Higher densities were noted within the area located in the western portion of the study area. Three separate sites were registered as a result of the test



excavation, and it was noted that artefact densities increased with proximity to the creek located along the western boundary of the site.

Overall, the study area was assessed as being of moderate archaeological significance due to its retention of “moderate patterning despite agricultural disturbance” (Austral 2022). The site was considered to have been of high cultural significance to the Aboriginal community, although no specific comment regarding the cultural significance was received from the RAPs.

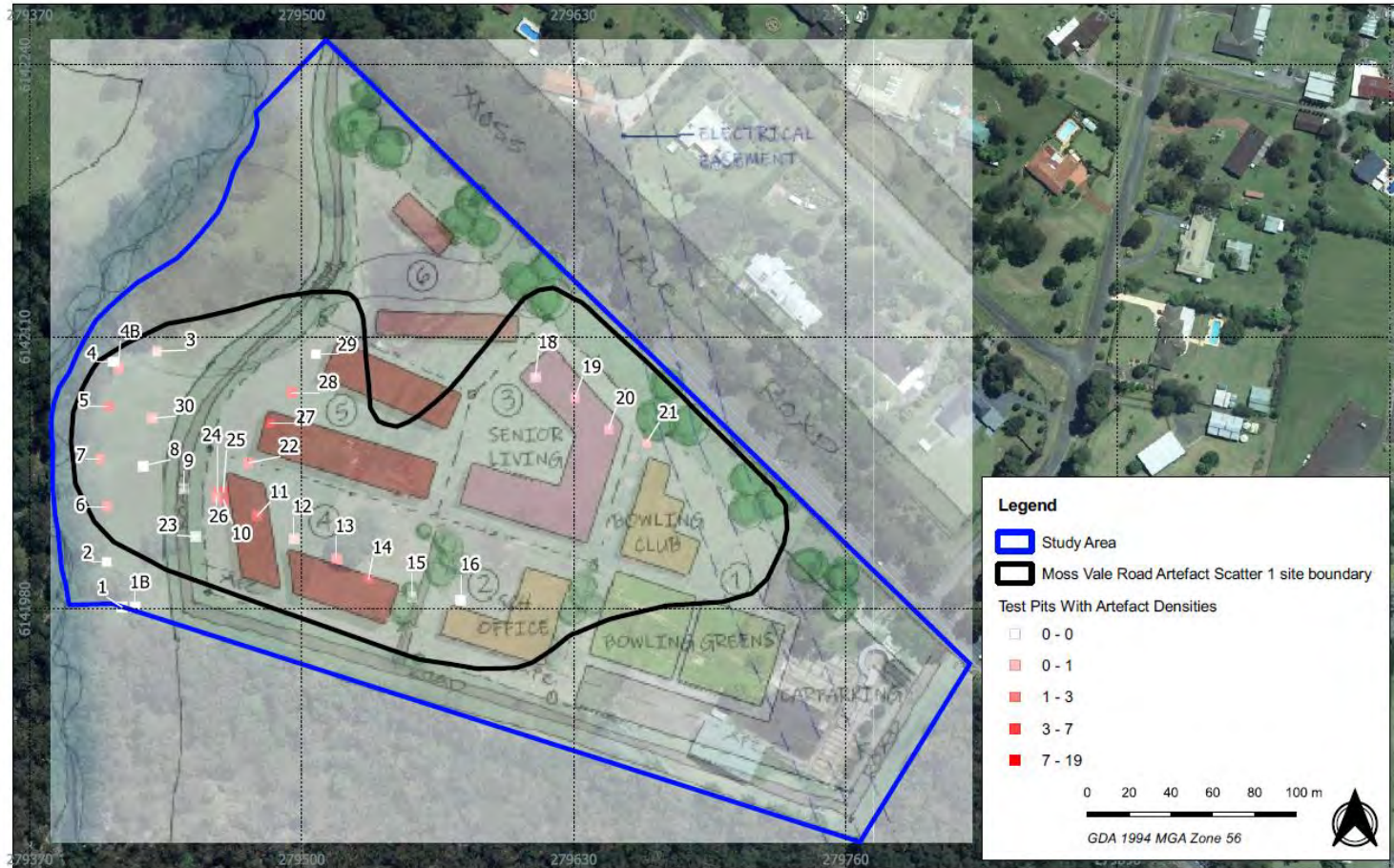
The assessment identified that a portion of the identified subsurface deposit was located within an area designated as a public reserve, which would be subject to minimal disturbance as part of the proposed development. However, much of the remainder of the study area, located to the east of the public reserve area, would be impacted by the proposed development.

As a result, further salvage of the area around TPs 10/24/25/26 (a 1m<sup>2</sup> pit excavated in 4 50x50cm quadrats) and TPs 13, 21, 22, 27, and 28 (50x50cm pits) was recommended, as these were considered to “serve as nuclei for [further] research... to inform our understanding of the Aboriginal occupation of these environments” (Austral 2022).

The Austral 2022 ACHA was submitted to Shoalhaven City Council as part of an Integrated Development Application and was subsequently referred to Heritage NSW for their consideration and to allow them to issue General Terms of Approval (GTAs). These were issued on 29 April 2022 following the receipt of additional information from Austral. The GTAs outlined the following requirements:

1. *Development must be in accordance with:*
  - a. *Austral Archaeology 2022a, 25, Moss Vale Road, Bomaderry New South Wales: Aboriginal Cultural Heritage Assessment, Final V5 dated 28 January 2022, report prepared for Allen Price & Scarratts Pty Ltd.*
  - b. *Austral Archaeology 2022b, 25 Moss Vale Road, Bomaderry NSW: Aboriginal Archaeological Technical Report, Final V5 dated 28 January 2022, report prepared for Southern Cross Community Housing.*
  - c. *Austral Archaeology letter response to Heritage NSW dated 1 December 2021.*

*Please note that any modification of the above development that will result in impacts to Aboriginal cultural heritage must be referred to us to determine whether changes to these general terms of approval are required.*



**Figure 8.6 AHIMS site extent 52-5-0996 with Proposed development**

25 - Moss Vale Road, Bomaderry

Source: NSW LPI Aerial

Drawn by: ARH Date: 2022-01-28



**Figure 1: Aboriginal sites in relation to the proposed development layout as identified by Austral Archaeology (Source: Austral Archaeology 2022)**



**EXCEPT AS AMENDED** by the following general terms of approval:

2. A s.90 Aboriginal Heritage Impact Permit (AHIP) for the proposed works must be sought and granted prior to the commencement of works.
3. The AHIP application must be accompanied by appropriate documentation and mapping as outlined in Applying for an Aboriginal Heritage Impact Permit: Guide for applicants (2011).
4. Consultation with the Aboriginal community undertaken as part of the AHIP application must be in accordance with the Aboriginal cultural heritage consultation requirements for proponents 2010 (2010).
5. The AHIP application must be completed with reference to the requirements of the Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW (2011).
6. The AHIP application must include complete records satisfying the requirements of the Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales (2010).
7. Long term management of Aboriginal objects must be considered as part of the AHIP application.
8. A management plan must be provided in support of the AHIP application outlining how the conservation area will be managed in both the short and long term. Detail any actions and methodologies e.g. vegetation management that may need to occur within the conservation area and consider whether an AHIP will be required for the ongoing management of this area.

#### **ADVICE**

- Prior to submitting an AHIP application please ensure the results and copies of the most recent Aboriginal community consultation are included in the ACHAR and appendices.
- Consider the ongoing ownership and management of the riparian corridor. It may be appropriate to apply for a separate AHIP over this land to allow ongoing management by either Council or the landowners.
- As previously noted to Council please ensure no impacts occur to the known site as a result of the "Proposed Future water trunk main (by Shoalhaven Water)" as shown in development plans. An AHIP would be required if these works to proceed.

#### **ABORIGINAL COMMUNITY CONSULTATION MUST BE MAINTAINED**

Consultation with the Registered Aboriginal Parties (RAPs) must be maintained. We recommend updates on the project are provided to the RAPs every 6 months to ensure the consultation is continuous.

The Development Consent was issued by Shoalhaven City Council on 20 December 2022. Apex Archaeology were subsequently engaged to prepare the AHIP application and to undertake the subsequent salvage excavations.



Once engaged, Apex Archaeology requested copies of consultation updates sent to the RAPs by Austral Archaeology. Despite assurances from Austral Archaeology that the consultation had been provided to the RAPs, no evidence of this was provided to Apex Archaeology. As a result, Apex Archaeology contacted Heritage NSW for guidance, and were advised in this instance only that the application can be submitted without the consultation updates.

An AHIP application and accompanying ACHMP were submitted by Apex Archaeology to Heritage NSW on 23 May 2023. The AHIP was approved on 15 August 2023. Apex Archaeology then undertook the salvage excavations in accordance with the requirements of AHIP #5144 in August and September 2023. This report details the results of the salvage works.

## **1.3 PREVIOUS ARCHAEOLOGICAL ASSESSMENT**

### **1.3.1 AUSTRAL ARCHAEOLOGY 2022**

Austral Archaeology were engaged by Allen Price & Scarretts Pty Ltd to undertake an ACHA for the study area located at 25 Moss Vale Road, Bomaderry, in 2020.

A survey of the study area was conducted on 20 February 2020 and identified no Aboriginal sites due to very low GSV. However, two areas of PAD were identified on two different landforms – a gentle simple slope and a creek terrace. The gentle slopes were assessed to be of moderate archaeological potential, whilst the creek terrace area was assessed as having moderate to high archaeological potential. Both landforms were considered moderately disturbed due to previous land use practices. It was determined that both PAD areas should be subject to test excavation in order to determine the presence or absence of archaeological material.

Test excavation was conducted over four days between 18 January and 27 January 2021. A total of 31 test pits were excavated, with 20 containing cultural material. Most test pits contained a low-density distribution of artefacts, however those closer to the creek contained higher density artefact distributions. A total of 114 cultural lithics were recovered across the 20 test pits which contained cultural material. Test pits were excavated in transects, and spaced 20m apart.

The testing area was split into three areas. Gentle Slope sample area 1 had a low-density pattern of distribution of cultural materials, with a slight increase of 16-32 artefacts per square metre closer to the creek, from the low-density distribution of 4-12 artefacts per square metre elsewhere in this area (Austral 2022: 49). The Creek Terrace sample area 2 contained 11 test pits in the western end of the study area



running approximately parallel to the creek. In this area, TP5 had a high concentration of artefacts (76/m<sup>2</sup>).

The majority of artefacts were recovered from the top 300mm of soil, and 73% of all artefacts came from the first three spits. Depths of test pits varied across the study area, and excavation was ceased at variable depths, from 500mm to 1000mm.

Table 1 shows the artefact numbers recovered from each test pit, and Figure 2 shows the location of test pits and their artefact numbers from across the study area.

**Table 1: Artefact count per positive test pit (Source: Austral Archaeology 2022 Table 5.2)**

Pit number	Artefact count	Pit number	Artefact count
3	1	12	1
4B	7	13	4
5	19	14	3
6	5	19	1
7	6	20	1
10	13	21	2
24	8	22	8
25	10	27	4
26	7	28	8
11	3	30	3
<b>Total</b>	<b>79</b>	<b>Total</b>	<b>35</b>
<b>Grand Total</b>		<b>114</b>	

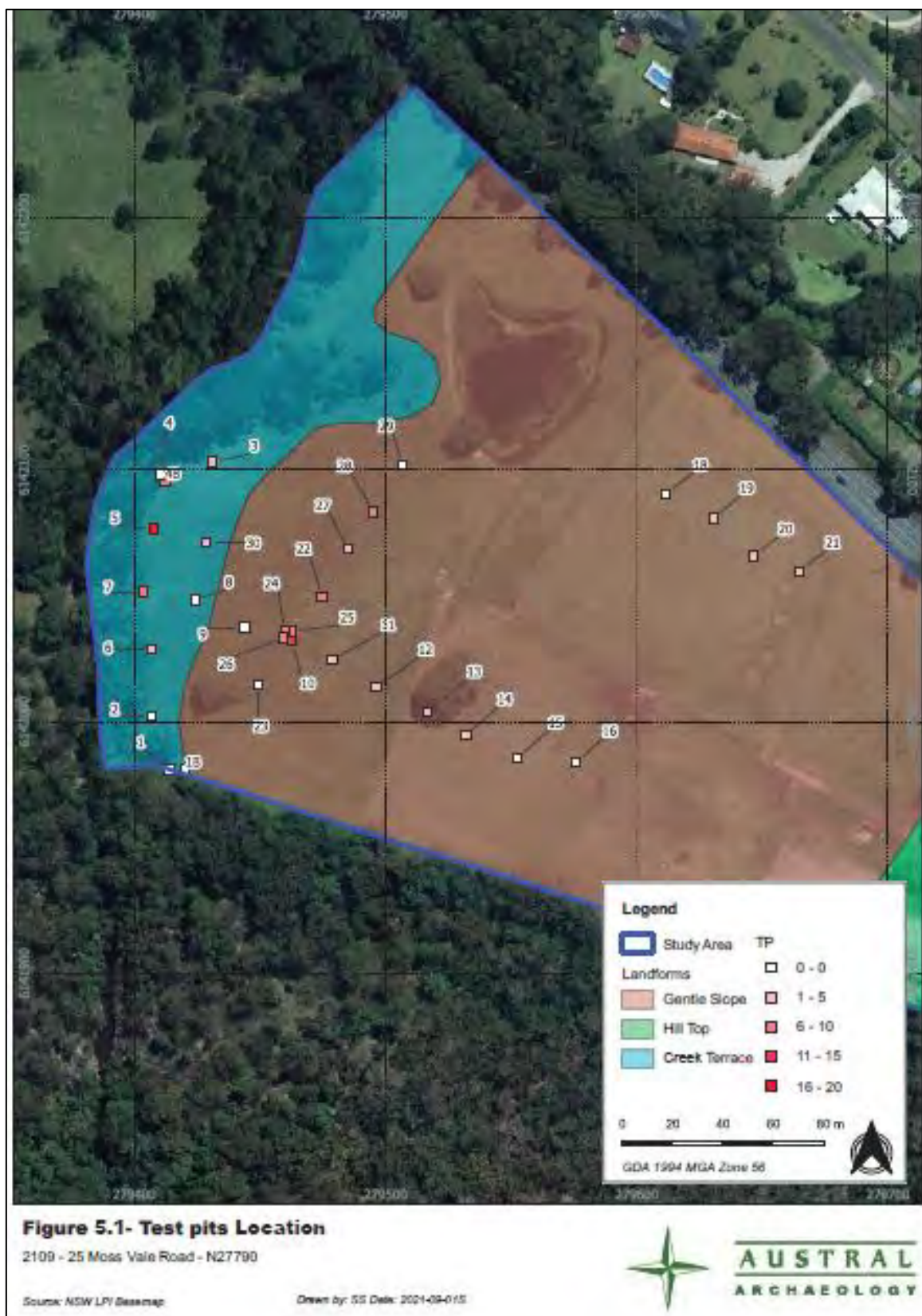


Figure 2. Location of Test Pits with artefact numbers across the study area (Source: Austral Archaeology 2022, Figure 5.1)

A total of 114 artefacts were recovered from the testing programme and included a variety of materials such as quartz, chert, basalt, silcrete, jasper, chalcedony, hornfels, quartzite and tuff. Artefact types were predominantly flaked pieces and broken flakes of varying types, but also included few cores, retouched flakes and tools.

The artefact scatter at Moss Vale Road was considered a low-density artefact scatter and to be of moderate significance on the ground that “it maintained moderate patterning despite agricultural disturbance” (Austral 2022: 68).

Initially, the artefact scatter was interpreted as three different sites and registered as AHIMS sites #52-5-0996, #52-5-0997 and #52-5-0998 (Figure 3). However, further analysis conducted by Austral suggested that the sites are the same sub-surface artefact scatter, spread over the two identified areas of PAD (Figure 4).

As a result of subsurface archaeological testing, it was recommended that an AHIP application should be made to harm AHIMS site #52-5-0096 and that salvage should be conducted within the study area at several test pits including TPs 10, 13, 21, 22, 27, and 28 following the approval of an AHIP and before subsequent development of the study area (Austral 2022: 81).

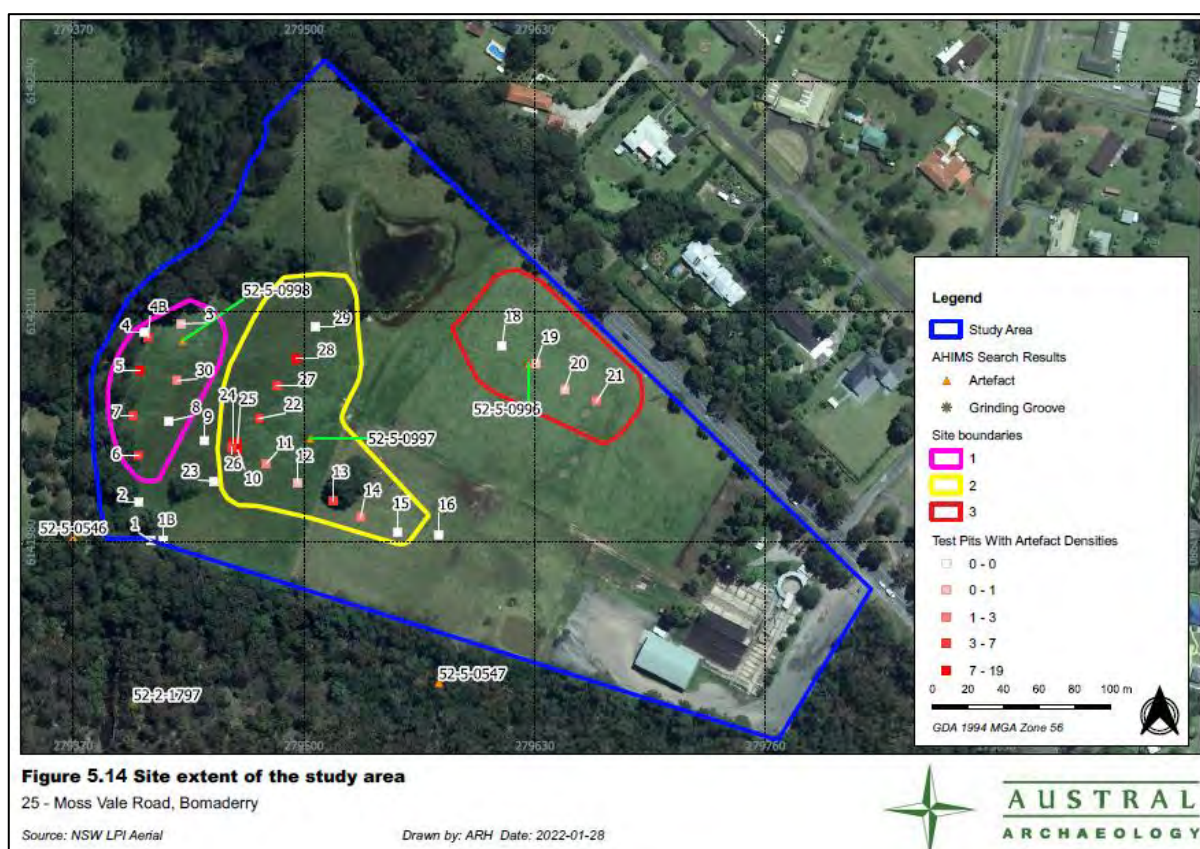


Figure 3. Location of three separate artefact scatters, registered AHIMS sites #52-5-0996, #52-5-0997 and #52-5-0998 (Source: Austral Archaeology 2022, Figure 5.14)

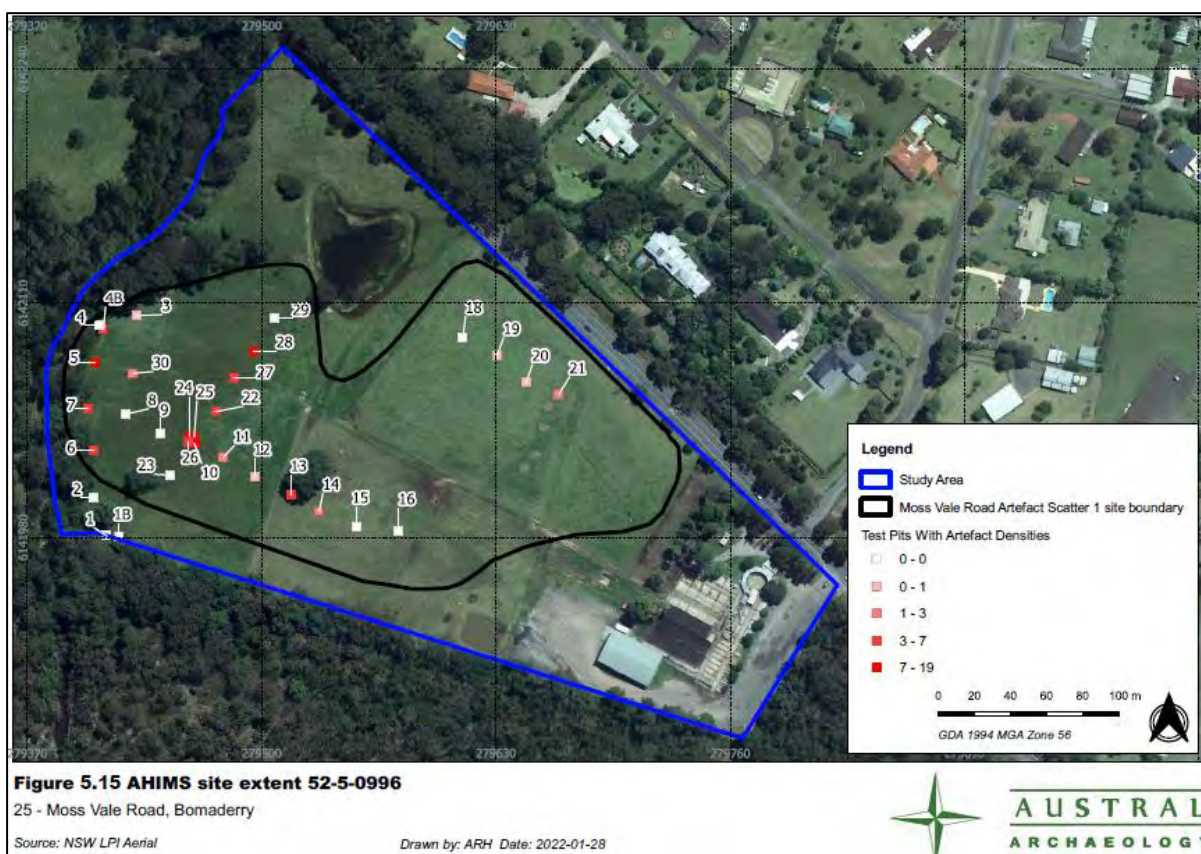


Figure 4: Austral Archaeology revised site boundary (Source: Austral Archaeology 2022 Figure 5.15).

As the identified artefact deposits were registered as three separate sites and no update to the site cards was made by Austral, the original site numbers were used for the AHIP application and in this report.

## 1.4 INVESTIGATORS AND CONTRIBUTORS

This archaeological assessment was commissioned and funded by Southern Cross Community Housing.

This report has been prepared by Peta Rice, Archaeologist with Apex Archaeology, Jenni Bate, Director and Archaeologist with Apex Archaeology and Leigh Bate, Director and Archaeologist with Apex Archaeology. Leigh Bate oversaw the salvage excavation, with assistance from Olle Lundgren and David O'Brien as field archaeologists. The report was reviewed by Jenni Bate.

Thanks are extended to Dr Beth White, who completed the lithic analysis for the project and prepared section 5 to 7 of the report.



## 2.0 ABORIGINAL CONSULTATION

Aboriginal consultation in accordance with the *Aboriginal cultural heritage consultation requirements for proponents 2010* was originally undertaken by Austral Archaeology as part of the Aboriginal Cultural Heritage Assessment (ACHA) prepared to inform the Development Application (DA) for the site.

An email regarding the change of consultant and the preparation of an ACHMP by Apex Archaeology was sent to the relevant parties previously contacted by Austral Archaeology on 6 March 2023. A copy of the prepared ACHMP was then sent on 13 April 2023 with a request that comments be made by close of business on 12 May 2023. Three responses were received, however no comments on the ACHMP were made. A copy of the AHIP was forwarded to all RAPs by Apex Archaeology on 21 August 2023. No responses were received.

It is noted that consultation with the Aboriginal community has not been continuous as it was understood that the project had been approved through issue of the project DA and subsequent AHIP.

A copy of the salvage report was sent to all RAPs for their comment on 15 September 2025, with any comments received until CoB 13 October 2025. RAPs were also advised of the change in the project approval pathway from a DA to a State Significant Development (SSD) and the amended Masterplan for the site. No responses were received from any of the RAPs for the project.

Copies of consultation documentation relevant to the salvage report are attached in Appendix C.



## 3.0 METHODOLOGY

A salvage methodology was attached to the ACHA and outlined the staged salvage approach for the site. The methodology prepared for the salvage works is summarised in this section.

### 3.1 STAGED SALVAGE EXCAVATION

Apex Archaeology undertook a staged salvage excavation of the low-density artefact scatter identified by Austral Archaeology in 2021. Five original 1x1m test pits excavated by Austral Archaeology in 2021 were re-located and re-excavated, then subsequently expanded to 3x3m<sup>2</sup>. Test Pits 13, 21, 22, 27 and 28 (initially 50x50cm) were also re-located, re-excavated and expanded to 3x3m<sup>2</sup>. The total area excavated in Stage 1 was 54m<sup>2</sup>. Stage 2 consisted of continued expansion of open areas where the appropriate triggers were met and included expansion of an additional 15m<sup>2</sup> dispersed over the study area. The total area excavated was 69m<sup>2</sup>.

Excavation of both stages was undertaken as outlined in Section 3.2.3.

#### 3.1.1 RE-LOCATION AND EXPANSION OF AUSTRAL ARCHAEOLOGY TEST PITS – STAGE ONE

- Stage 1 – 3x3m salvage pits were excavated as follows;
- TP 10, 24, 25 and 26 (1x1m) originally excavated by Austral Archaeology were reidentified and re-excavated to 3x3m salvage pits;
- TP 13, 21, 22, 27 and 28 (initial 50x50cm test pits) were reidentified and re-excavated to 3x3m salvage pits;
- Salvage pits were oriented north – south using a handheld compass for accuracy;
- Artefact concentrations were recorded on graph paper to keep track of directionality and to determine which salvage pits required expansion in stage 2.

#### 3.1.2 OPEN AREA SALVAGE – STAGE TWO

- Stage 2 – Expansion of open areas, if required, subject to artefact density and meeting appropriate triggers for expansion, up to 85m<sup>2</sup> (dispersed over the entire area depending on results – additional 31m<sup>2</sup>).
- Expansion triggers were as follows:
  - Artefact incidences of high density encountered within a context which warrants further investigation or salvage. The high-density threshold will be defined based on results of Stage 1 Salvage, although is likely to be pits with more than 9 items, based on the results of the test excavations.

- Any level of artefact incidence within a stratigraphic or pedological context which warrant further investigation
- *In situ* non-human bone material relating to Aboriginal occupation of the area.
- The remains of a hearth in a relatively undisturbed condition.
- A lithic flaking floor in a relatively undisturbed condition.
- An arrangement of stones (showing evidence of deliberate placement by a human agency) in a relatively undisturbed condition.
- A dense layer or lens of cultural material.
- Stage 2 salvage involved the continued excavation of 1m x 1m salvage pits adjacent to stage 1 salvage pits which met the above triggers.
- Stage 2 salvage excavation ceased when previous pits no longer met the above triggers.
- Excavation was ceased once a total of 69m<sup>2</sup> had been excavated.

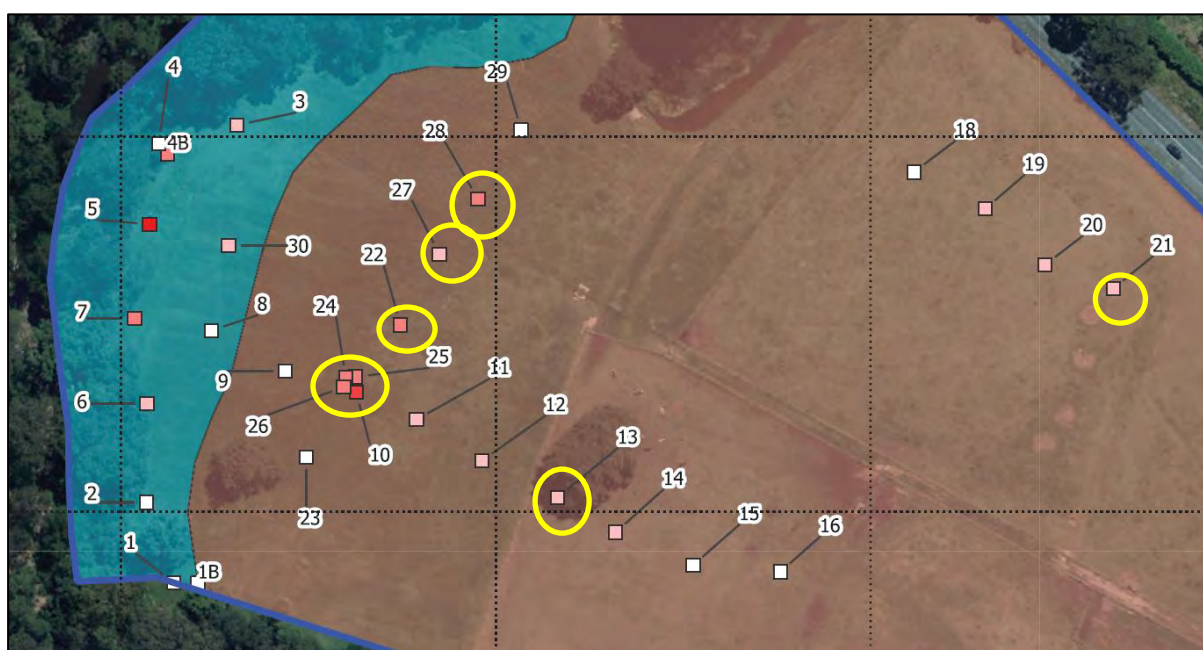


Figure 5. Test pits identified for further investigation (Source: Austral Archaeology 2022 with Apex Archaeology additions)

### 3.1.3 EXCAVATION METHODOLOGY

- All pits were 1m<sup>2</sup> and excavated in 5cm spits by hand using a shovel, hand shovel and trowel as appropriate. Spit depths were consistently checked with a hand tape measure to ensure accuracy of excavation depth;
- Where cultural features (e.g., hearths, heat treatment pits, knapping floors) were identified during excavation, excavation with hand tools (e.g., hand shovel and shovel) ceased and continued with trowel only;



- Locations of identified features were planned onto 1mm graph paper. X, Y and Z coordinates of individual artefacts from in-situ knapping floors were recorded and photographed prior to removal (where possible) and continuation of excavation;
- The presence of any one or combination of the following triggers determined if further excavation would continue in any of the initial open area expansion sites (Stage One) and were utilised during further expansion in Stage Two:
  - The relative density of artefact frequencies. If higher numbers of artefacts are identified in one or more parts of the initial excavation, they were further explored;
  - Based on the results of Austral's test excavation, pits with more than nine items in any 1m<sup>2</sup> area were expanded, up to the maximum areas outlined in Section 3.1.1 and 3.2.2;
  - Variations of raw materials that warranted further investigation;
  - If unusual artefact types were found, e.g., complete flakes, tools, cores, other types such as ground edged implements etc;
  - If evidence of artefact manufacture was found, e.g., conjoining artefacts, flaking debitage, micro-debitage, complete flakes, broken flakes; tool manufacture or maintenance;
  - If there is evidence of different activities, indicated by different artefact types e.g., backed artefacts, partly made backed artefacts and backing debitage, tool retouching debitage, debitage with dorsal grinding and retouched and/or used tools, different raw materials and raw materials with distinctive banding or inclusions;
  - Chronological material (any materials that could be used to date artefactual materials);
  - Taphonomic/site formation indicators; and
  - Any other relevant features appropriate for further investigations, e.g., archaeological features such as evidence of burning in a hearth, stone features; clay features etc.
- Charcoal samples for dating (C<sub>14</sub>) were only to be taken during in-situ excavation of accurately identified cultural features (e.g., hearths and heat treatment pits);
- If hearths, heat treatment locations, ovens, etc were uncovered, consideration would have been given to consulting with an expert regarding archaeomagnetic and paleomagnetic samples to date and obtain cultural data from the heating events;
- Any charcoal samples would have been recovered and placed into aluminium foil, securely sealed, and placed into zip lock bags, clearly labelled and provenanced;
- The soil from each spit was placed in 10L plastic buckets and transported to the sieving station;



- To ensure sufficient control of each spit excavated, a bag was written to accompany the buckets from each spit. The following information was recorded on each bag: site name, date, pit location (easting & northing) and name of excavator;
- All material from each test pit was dry sieved through table sieves (1 x 1m) with a wire mesh aperture gauge of 5mm, with the option to include 3mm mesh depending on the soil matrix;
- Wet sieving may be necessary depending on the soil matrix, and was implemented where necessary;
- All material recovered from the sieving process was checked by a qualified archaeologist with experience in artefact identification prior to being placed into the spit bag;
- Artefact counts were recorded for each spit; and
- Lithic analysis was undertaken by Dr Beth White who is a specialist with suitable experience (30+ years).

### 3.2 RECORDING

- Each spit was recorded on a standard spit sheet with the following information:
  - site name;
  - date;
  - excavator name;
  - spit number;
  - spit depth;
  - pit location (easting & northing);
  - start levels & end levels;
  - bucket count and end total bucket count;
  - soil description;
  - description of disturbance;
  - description of artefacts (material type & artefact type if in situ);
  - in situ recording of artefacts where possible (xyz coordinates); and
  - photograph details (from surface and of each spit to base).
- Sections were planned on 1mm grid paper where warranted.

### 3.3 ARTEFACTS AND CHAIN OF CUSTODY

Artefacts recovered from the excavation were analysed by Beth White, who is an archaeologist experienced in artefact analysis and interpretation. During the analysis the artefacts were temporarily stored at her office in a lockable cupboard. Artefacts were temporarily held at Apex Archaeology's office before being sent for analysis to Beth White, and once returned, until reburial on site. The artefacts are awaiting such time as reburial can occur on site, which will be once civil works in the



area are completed and there is no risk of the artefacts being impacted by the works.

The location for reburial of the collected assemblage is within the Conservation Area within the Riparian Zone, within which limited harm relating to vegetation management is proposed and subsequent management as a no impact area (Figure 6). Suggested wording for a restriction on title is included in the ACHMP.

### **3.4 CESSATION OF EXCAVATION**

Excavations of each 1m<sup>2</sup> area ceased upon reaching basal clay, a culturally sterile layer, or at the discretion of the archaeologist. Excavations at each salvage area were ceased in line with the conditions set out in the salvage methodology set out in section 3.2.2.

### **3.5 BACKFILL AND SALVAGE EXCAVATION**

It was considered likely that civil works would start on completion of salvage excavations and as such, the civil contractor dealt with the open pits as part of the site works.



**Appendix 7 Proposed location for the reburial of artefacts**

2109 - 25 Moss Vale Road - N27790

Source: NSW LPI Basemap

Drawn by: WA Date: 2021-04-07



Figure 6: Location for artefacts to be reburied within the study area.



### 3.6 POST-EXCAVATION ANALYSIS

On completion of salvage works within the study area, all artefacts recovered were analysed by Dr Beth White as outlined in Section 5.0 to Section 8.0.

Aboriginal Site Impact Recording Forms (ASIRFs) were prepared for the impacted sites, detailing the results of the surface and subsurface salvage works undertaken within the area.

### 3.7 RESEARCH QUESTIONS

The following research questions guided the archaeological salvage excavations of the site.

1. Can the extent of artefact concentrations observed from the initial test excavations be better refined?
2. How does the artefactual density during the salvage program compare to the testing program? Has a greater volume of excavation yielded similar or different results in terms of characterising the site?
3. What is the variation in density of cultural material across this area? Can individual knapping floors or functional processes be identified?
4. Does the additional artefactual material contribute/alter the existing analysis of the nature of this site?
5. Are the results of the salvage program consistent with other sites excavated within the locality and region? How can the results be compared and/or contrasted?

## 4.0 EXCAVATION RESULTS

A total of 69m<sup>2</sup> was excavated over six open areas as part of the salvage works. In total, 2,047 cultural lithics were identified across the study area; all retrieved from sub-surface salvage works. One test pit within AHIMS site #52-5-0996 required further investigation. This was OA1. The remaining OAs were all located within AHIMS site #52-5-0997. Figure 7 below shows the numbering for the open areas.

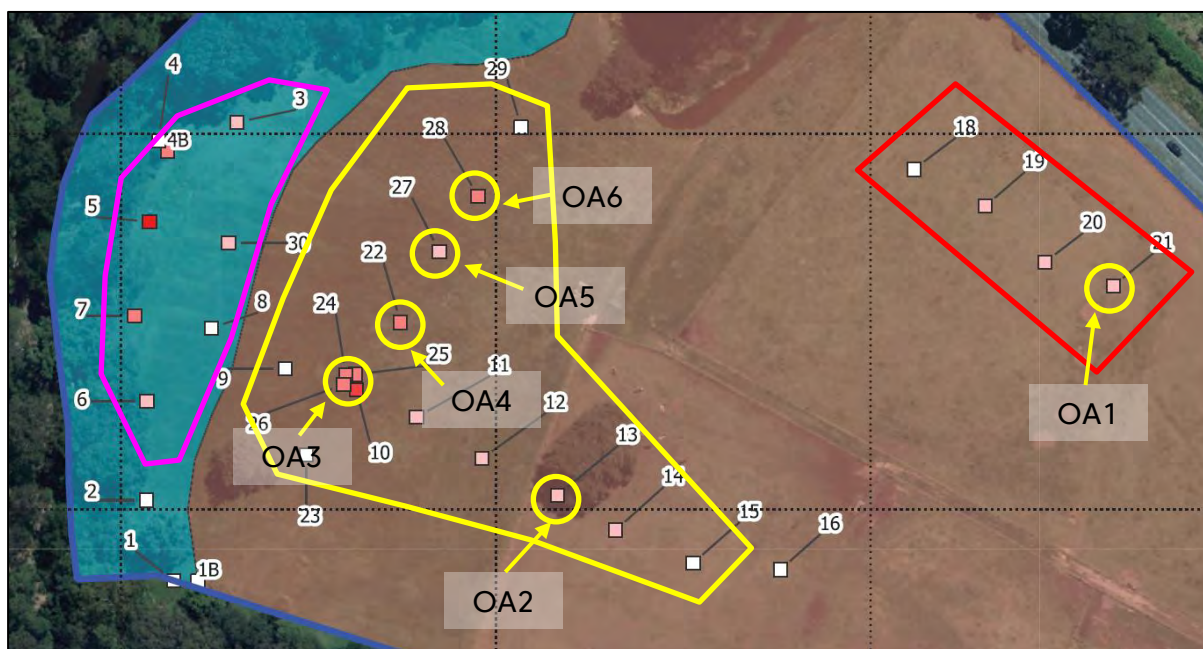


Figure 7. Test pits identified for further investigation within their registered site boundaries, in line with Figure 3 (Source: Austral Archaeology 2022 with Apex Archaeology additions)

### 4.1 OPEN AREAS

The first stage of salvage was the relocation and expansion of test pits (TP) that had been identified for salvage excavation due to artefact densities or assemblage characteristics. Initially additional 1m<sup>2</sup> salvage units were excavated in cardinal directions around the original test pit location and artefact numbers recorded. These initial results informed which salvage areas would be further expanded. This is outlined in Table 2 below.

Table 2: Total excavation area and number of recovered artefacts from OA1, 2, 4, 5 and 6.

Open Area	Austral TP number	Total area excavated	Number of artefacts recovered
1	21	5m <sup>2</sup>	20
2	13	5m <sup>2</sup>	9
3	10/24/25/26	22m <sup>2</sup>	844
4	22	16m <sup>2</sup>	560
5	27	9m <sup>2</sup>	221
6	6	12m <sup>2</sup>	393

OAs 1 and 2 were expanded in cardinal directions and then ceased as they had the lowest overall densities of any of the expanded salvage pits. OAs 3, 4, 5 and 6 followed the density of the deposit and were expanded further. In total, 69m<sup>2</sup> was excavated.

Salvage pits were moderately deep, with excavation down to 60 cm depth in most OAs, and down to 65 cm depth at OA3. OA1 was shallower, excavated to a maximum depth of 40 centimetres.

The soil profile was consistent with that described in the Austral (2022) ACHA across the site, with a shallow topsoil overlaying a silty, humic A1 horizon; overlaying a soft sandy clay A2 horizon, with a clear transition to a reddish brown compact clay B horizon. All pits had evidence of bioturbation from grass roots and invertebrate activity in some instances. The soil profile is clear and easily distinguishable, as seen in the following plates.



Plate 1: Open area 1 (5m<sup>2</sup>).



Plate 2: Aerial image of Open Area 2 (5m<sup>2</sup>).



Plate 3: Aerial of Open area 3 (22m<sup>2</sup>).



Plate 4: Aerial image of Open Area 4 (16m<sup>2</sup>).



Plate 5: Open area 5 (9m<sup>2</sup>).



**Plate 6: Aerial image of Open Area 6 (12m<sup>2</sup>).**

Evidence of disturbance was noted across the site, with plough or ripper lines visible at approximately 30cm depth within many of the salvage pits. This is clearly shown in Plate 7 below. Ploughing of the fields would have resulted in some levels of disturbance within the area, but it was noted that multiple in situ artefacts were recorded in OA 3 in particular (Plate 8).

Additionally, it was noted that the original Austral TP 10/24/25/26 which was a 1m<sup>2</sup> test pit had been repurposed by a wombat to create an accessible entry to its burrow (Plate 9). The burrow was further exposed during the salvage excavation (Plate 10) but the inhabitant appeared to have abandoned the burrow prior to salvage works commencing. Disturbance due to the burrow was limited to the actual burrow itself and significant numbers of artefacts were recovered from that open area, from the more intact deposits into which the wombat had burrowed.



Plate 7: Plough or ripper lines within salvage pit



Plate 8: In situ artefact (marked by smaller scale) with visible plough lines in OA3



Plate 9: Wombat burrow at Austral TP 10/24/25/26 (OA 3)



Plate 10: Wombat burrow at OA 3



## 5.0 LITHIC ANALYSIS BACKGROUND

Sections 5 to 8 have been prepared by Dr Beth White of Beth White Archaeology.

This section of the report provides an analysis of Aboriginal stone objects from salvage excavations at 25 Moss Vale Road, Bomaderry. A total of 2,047 objects were recovered. The assemblage (Appendix A) shows a high degree of breakage, and only 938 of the objects (46%) are flaked or pitted artefacts. Heat shatters are frequent in the assemblage (38%), and other objects show indeterminate breakage or split along flaws in the stone. Some weathered nodules were also carried to the site as manuports but not flaked.

The assemblage occurs as a continuous low to moderate density scatter of objects across the lower slope landform within c.100 m of Bomaderry Creek. While there may have been some spatial displacement by modern agricultural activities, it appears that many small-scale flaking, discard and breakage activities were carried out across the site. The continuous spread of objects of diverse material types suggests numerous repeat visits, with activities carried out in many locations, usually overlapping spatially. Activities included processing of locally-occurring nodules as cores for use elsewhere, as well as some core flaking, tool maintenance, and discard of backed artefacts which were made elsewhere.

Very little chronological information is available. Six backed artefacts occur in OA3, and three others occur in each of OA4, OA5 and OA6. All occur within the upper spits of the deposit, while retouched artefacts and cores occur in both upper and deeper deposits. Most backed artefacts in the South Coast region were probably made between c.4,000 cal BP and 1,700 cal BP (the backed artefact proliferation phase) (Apex Archaeology 2024; Hiscock 2008), so backed artefacts on the site may indicate occupation during that phase. The vertical distribution of the backed artefacts suggests that some activities were carried out prior to the backed artefact activities, with a sufficient time gap to enable some earlier objects to have been buried before the backed artefacts were left on the site. However, little other evidence for change through time in stone technology on the site suggests that the nature of earlier occupation was similar to later occupation.

### 5.1 CONTEXT FOR THE LITHICS ANALYSIS – AN OCCUPATION MODEL FOR THE SHOALHAVEN REGION

#### 5.1.1 OCCUPATION MODEL BASED IN ENVIRONMENTAL ECONOMY

Previous archaeological and ethnohistorical studies in the Shoalhaven region led to the development of general occupation models, based largely in environmental economy (economic use of landscape resources). Clarke and Kuskie (2006) suggest the following model relevant to the Mid to Late Holocene landscape:



- Primary resource zones associated with the Shoalhaven and Crookhaven Rivers would have had sufficient resources to facilitate congregations of large groups of people occupying base camps, as well as camping by small hunting and gathering parties, hunting and gathering without camping and transitory movement. Occupation was probably regular and potentially of longer duration in primary zones.
- Secondary resource zones occurred in proximity to higher order streams and/or wetlands, with resources able to support nuclear and extended family base camps, as well as camping by small hunting and gathering parties, hunting and gathering without camping and transitory movement. Occupation was probably sporadic and of short duration.
- Away from these resource zones, in areas drained by low order (small) streams and their associated slopes and crests, occupation may have involved hunting and/or gathering without camping, and transitory movement, and was probably sporadic and of very short duration.
- Artefact scatters could have occurred across the region, but typically in low densities, interspersed by occasional areas of higher density from localised activity areas (Clarke and Kuskie 2006).

Archaeological investigations for the Berry to Bomaderry Princes Highway upgrade project, north of Nowra, also concluded that “... basal slopes of spurlines adjacent to the valley floor and probable former wetland basin ... provides a landform with strong archaeological sensitivity. Also, elevated banks flats and adjacent slopes of minor tributaries and creek line(s)... prove to have archaeological sensitivity...” (Navin Officer 2013:45). This model is similar to that of Clarke and Kuskie (2006) by envisaging a focus of activity near resource-rich wetlands with occupation sites located on elevated ground above these resource zones. But it also acknowledges the potential for occupation in association with low order (minor) streams.

A review of test excavation data for the lower Shoalhaven area (Apex Archaeology 2023) found that the highest densities of stone objects, and/or most continuous distributions of objects on sites, occur in areas associated with the Shoalhaven River, swamps, lakes and larger streams. Low densities of objects occurring as sparse discontinuous scatters, tend to occur in areas associated with minor 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> order streams. However, there are exceptions, and some sites associated with major streams and wetlands have low densities and sparse distributions; and rarely, sites associated with minor streams have higher densities and more extensive distributions. The review suggests that some particular sites were favoured for occupation, and while economic considerations (water and food resources) may have been contributory factors they were not the only determinants of site selection (Apex Archaeology 2023).



### 5.1.2 TOWARDS A SOCIAL MODEL OF OCCUPATION

The same review of test excavation data for the lower Shoalhaven area (Apex Archaeology 2023) also considers the proportions of stone materials in various assemblages. Silcrete and/or quartzite is more frequent in assemblages south of the Shoalhaven River and in Nowra Bridge site 8, immediately north of the Shoalhaven River. But these materials are much less frequent at other sites north of the Shoalhaven River. Assemblages north of the Shoalhaven River are dominated by fine grained materials variously referred to as chert, jasper, chalcedony and FGS (fine grained siliceous). It is thought that silcrete/quartzite was procured from coastal sources, while FGS/chert was procured from the Cambewarra area north of the Shoalhaven River (see section 6.0 below).

It has been argued that distributions of stone materials in sites could have been influenced by where materials occur naturally in a region, but also by people's practices which increased or decreased the amount – and types – of stone carried to sites (Guilfoyle 2005). Hence, the pattern shown by stone material use in the lower Shoalhaven area could be interpreted as a result of different patterns in the routine transport and use of materials having different sources. People north of the Shoalhaven River made predominant use of local FGS/chert, while people south of the Shoalhaven River tended to use more silcrete/quartzite. Were the same people occupying one country but using different stone material procurement strategies, or were two groups of people present, one occupying country north of the Shoalhaven River and another occupying country south of the Shoalhaven River? If the latter was the case, and if the Shoalhaven River was an aggregation locale (Clarke and Kuskie 2006), then differing proportions of diverse materials could occur at sites along the Shoalhaven River as people from different countries congregated, for large social gatherings.

Navin Officer (2013) reviewed historical evidence on the nature of social arrangements in the greater Shoalhaven area. Tindale (1940) identified the Shoalhaven River as a social or linguistic boundary, separating Dharawal speakers in the north from Dhurga speakers to the south. However, other researchers consider that people of the Lower Shoalhaven area were a single cultural group, placing the division between the two language speakers further south, through Jervis Bay (Horton 1996; Navin Officer 2013).

Future studies may be able to consider whether such social arrangements are expressed archaeologically through material use or other variables (e.g. Munt et al. 2023).



## 6.0 STONE MATERIALS AND THEIR POTENTIAL RESOURCES

In the current assemblage from 25 Moss Vale Road, most objects (82%) are of FGS materials, consistent with the predominance of this material type in the Bomaderry/Cambewarra area. Other material types are infrequent – tuff 2.7%, silcrete 5.3%, quartzite and its variants 4.4%, quartz 2.9%, silicified wood 0.7% and other materials combined 1.8%. The proportions of objects with cortex (including weathered surfaces) vary between some material types (Table 3), indicating variation in procurement.

**Table 3: Materials and cortex**

Material	Extent of cortex				Total	With cortex	% with cortex
	Absent	1/3 or less	About half	3/4 or more			
FGS	1,253	162	107	159	1,681	428	25.5
Tuff	44	6	4	3	57	13	22.8
Silcrete	97	8	4		109	12	11.0
Quartzite	40	29	14	8	91	51	56.0
Quartz	26	15	13	5	59	33	55.9
S Wood	10	2	1	1	14	4	-
Others	18	7	4	7	36	18	-
<b>Total</b>	<b>1,488</b>	<b>229</b>	<b>147</b>	<b>183</b>	<b>2,047</b>	559	27.3

### 6.1 FINE GRAINED SILICEOUS – FGS

FGS as identified by the current study variously includes materials referred to in other reports as chert, jasper and chalcedony. The inclusive term FGS is used here because the materials in the current assemblage do not occur as distinctive types but grade in texture, colour and translucency.

The FGS material ranges from cryptocrystalline (crystals not visible) though to crystalline or granular stone, with texture changes sometimes occurring within single objects (Plate 11). The material is sometimes translucent (Plate 12) but more often opaque (Plate 13). Colours vary widely to include white, yellow, red, brown, grey and black. Some materials are plain, some mottled, some speckled and some are banded (Plate 14). Variations are sometimes transitional, and sometimes abrupt (Plate 15). Colour sometimes relates to weathering (e.g. ID780 has a red weathered outer surface with pale grey inner stone, Plate 16).



**Plate 11: FGS broken flake ID65.**

From OA3 pit 2 spit 9. Scale 10 mm long in 1 mm increments.



**Plate 12: FGS flake ID450**

From OA3 pit 14 spit 10. Scale 10 mm long in 1 mm increments.



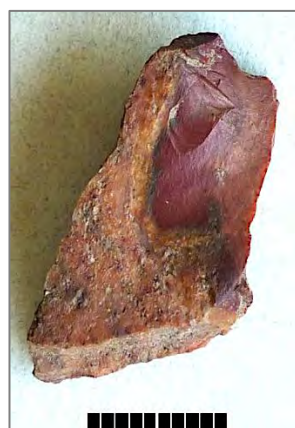
**Plate 13: FGS flake ID451**

From OA3 pit 14 spit 10. Scale 10 mm long in 1 mm increments.



**Plate 14: FGS broken flake right side ID478.**

From OA3 pit 15 spit 7. Scale 10 mm long in 1 mm increments.



**Plate 15: FGS broken flake ID1522.**

From OA5 pit 5 spit 3. Scale 10 mm long in 1 mm increments.



**Plate 16: FGS broken piece ID780.**

From OA3 pit 21 spit 6. Scale 10 mm long in 1 mm increments.

Weathered nodules are a notable component of the assemblage – 12 manuports are nodules, and another five cores, one retouched object and one object with remnant flaked surfaces are modified nodules (Plate 17, Plate 18). Overall, one-quarter (25%) of FGS objects retain cortical surfaces (Table 3), often (but not always) as thin weathered surfaces lacking arcuate impact points. Much of the material was obtained from a terrestrial source but some nodules could have been procured from stream gravels.

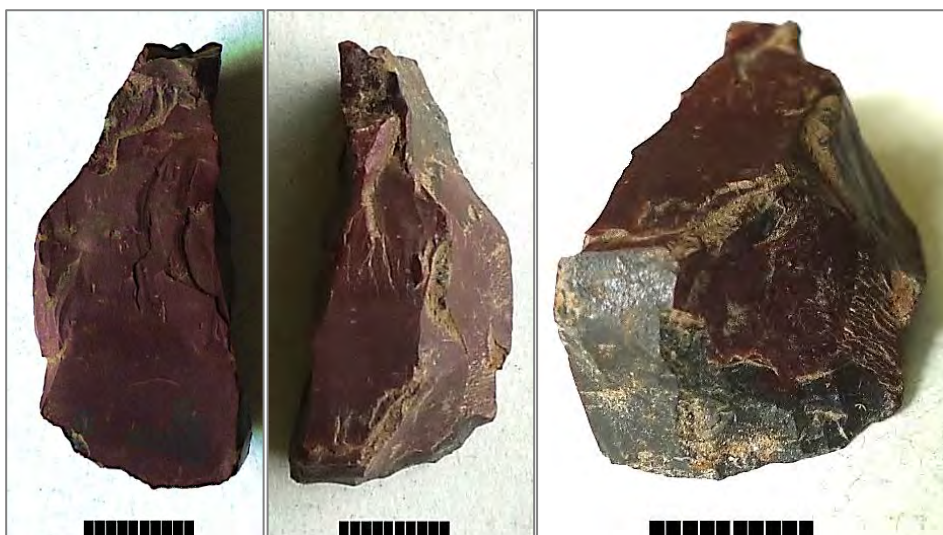


**Plate 17: FGS weathered broken nodule ID160.**  
From OA3 pit 6 spit 6. Scale 30 mm long in 10 mm increments.



**Plate 18: Assayed FGS weathered nodule ID1663.**  
From OA5 unprovenanced. Scale 30 mm long in 10 mm increments.

There was also some recycling of previously discarded objects. Object ID1685 (Plate 19) is a broken piece of a flaked artefact which broke along incipient fracture planes. The surfaces of this object are dark red. The object was picked up and retouched to produce a steep scraper-like edge; the scars on this edge being black, with flaking having removed part of the weathered red surface. It is not known how long it takes for weathering of FGS to cause colour change, but the original red object is probably substantially older than the retouching.



**Plate 19: Retouched FGS recycled broken piece ID1685.**  
From OA6 pit 2 spit 3. Scale 10 mm long in 1 mm increments.

The current site is located c.2 km north of the Bomaderry Rock Shelter, excavated in 1970 but published more recently (Lampert and Steele 1993). 'Chert' is one of two material types which are common in the stone assemblage. The authors note:

*The chert used at Bomaderry has a much more localised distribution, being known only from the courses of streams that rise in the nearby Cambewarra Range. The closest of*



*these is Tapitallee Creek in which chert is found some 4 km from Bomaderry as nodules that have been eroded by stream action from conglomerate bands in the Permian beds. The chert varies widely in colour, with yellows, browns and reds predominant. It varies also in quality, from opaque material with a hackly fracture, to fine translucent chalcedony with excellent potential for knapping (Lampert and Steele 1993:55).*

Published geological literature viewed for this study did not report the presence or origin of FGS but confirmation of its natural occurrence comes from two other sources. Paix (2013:21-22) reports the presence of 'jasper' in the bedload of Bomaderry Creek and in the bedload at Tapitallee Creek, it's main tributary.

The Prospecting Australia website includes a post by 'fossickeract' (14 November 2016) who reports the presence of yellow and red 'agate' sometimes translucent. The author states "...The agate seems to be associated (spatially) with the Cambewarra flows some 400ft of lava flows, sills, dykes, tuffs and volcanic breccias ...'. An image of red material similar to some of that in the current assemblage is included with a comment that "...Jaspers found below a cliff where a band metres wide appears to be bedded in between lava flows. The jasper here has a waxy texture ... The agates ... were downstream of the township of Cambewarra in the creek running through the town now reclaimed, built etc. ...There used to be extensive gravel beds there..." (Fossickeract 2 April 2024).

These observations indicate that FGS material in the current assemblage occurs locally, and this is consistent with the current assemblage including weathered nodules, and substantial numbers of objects with weathered surfaces.

## **6.2 SILICIFIED TUFF**

This is a fine grained material, sometimes banded and sometimes slightly crystalline (Plate 20). Objects range from pale cream to brown, grey-brown, grey and sometimes yellow. ID100 has lines of recrystallised quartz through it (Plate 21). About one-fifth of the objects retain cortex, although very extensive cortex is not common and most of the material had probably been flaked before being taken to the site.

The main source of tuff in the Nowra area was probably the Koo Lee Tuff which outcrops on Mt Coolangatta (east of Bomaderry, Cullunghutti Aboriginal Area). The tuff in this outcrop, and in fluvial cobbles and pebbles derived from the outcrop, is hard, well-cemented and breaks with a conchoidal fracture (B. Jones, geologist, personal communication 24 Feb 2022; GML Heritage 2022). Mt Coolangatta is located c.10 km east of the current site.

Tuffs also occur in various geological formations in the Illawarra, including the Gerringong Volcanics, Toongarra Coal and Wongawilli Coal (Bann and Jones 2001; Bowman 1974; Bowman et al. 1986). Blocks of tuff occur amongst gravel banks along Good Dog Creek (Paix 2013) c.5 km north of the current site. However, most tuffs in

the Sydney Subgroup of Illawarra Coal Measures have been weathered to kaolinite (clay, Bowman 1974:52) and are not suitable for flaking.



**Plate 20: Possible tuff flake ID1728.**  
From OA6 pit 3 spit 4. Scale 10 mm long in 1 mm increments.



**Plate 21: Possible tuff cone-split broken flake right side ID100.**  
From OA3 pit 4 spit 8. Scale 10 mm long in 1 mm increments.

### 6.3 SILCRETE

Silcrete is formed by the silicification of unconsolidated sediments (e.g. sand or soil) so the composition, grain size and relative amounts of matrix could differ depending on the nature of the original sediments and subsequent silicification processes. Silcrete is recognised here as a rock containing grains within a fine matrix, the grains usually being uneven in size (Hughes et al. 1973) (Plate 22, Plate 23, Plate 24). Colours vary widely, including white, grey, cream, yellow, pink and red. Only 12 objects (11%) retain cortex and none of these have very extensive cortex. The silcrete was probably procured as cobbles or pebbles which were flaked before being carried to the site.



**Plate 22: Silcrete cone-split broken flake right side ID127.**  
From OA3 pit 6 spit 3. Scale 10 mm long in 1 mm increments.



**Plate 23: Silcrete flake ID534.**  
From OA3 pit 16 spit 6. Scale 10 mm long in 1 mm increments.



**Plate 24: Silcrete flake ID548.**  
From OA3 pit 16 spit 7. Scale 10 mm long in 1 mm increments.

Silcrete occurs naturally on the South Coast, outcropping in several locations, particularly in the Bendalong area (Hughes et al. 1973) c.44 km south of the study area. However, silcrete pebbles and cobbles probably occur naturally along the Illawarra coast, as archaeological sites north of the current study area sometimes have silcrete objects with extensive cortex (Fullagar et al. 1999; GML Heritage 2022). The source of silcrete used at the current site is unknown, but probably coastal rather than being immediately local.

## 6.4 QUARTZITE/MEDIUM GRAINED SILICEOUS

This is a granular material, which varies in grain size and in the smoothness of fracture surfaces (Plate 25, Plate 26, Plate 27). The grains appear, macroscopically, to have been compacted together, rather than being cemented together with silica from solution (as for silcrete). Some variants are more siliceous than others. The materials may variously be quartzite, or hard sandstone which has undergone contact metamorphism with igneous rocks (e.g. latite flows, dykes). Half the objects retain cortex, and some have very extensive cortex, indicating procurement of cobbles or pebbles, and that some of those materials were in an early stage of flaking when carried to the site.



**Plate 25: Quartzite flake ID816.** From OA3 pit 22 spit 7. Scale 10 mm long in 1 mm increments.



**Plate 26: Quartzite flake ID144.** From OA3 pit 6 spit 5. Scale 10 mm long in 1 mm increments.



**Plate 27: Quartzite piece ID839.** From OA3 pit 22 spit 10. Scale 10 mm long in 1 mm increments.

Hardened sandstones (from contact metamorphism) could potentially occur in streams draining outcrops of the Gerringong volcanics along Cambewarra Range. Quartzite also occurs in various geological formations in the Shoalhaven River valley (Paix 2013).

## 6.5 QUARTZ

Only a small proportion of objects are of quartz. They tend to be white but some are also yellow, orange, pink or grey (Plate 28 Plate 28, Plate 29). Plate 29). Some quartz has a crystalline texture. More than half the quartz objects retain cortex, some with

very extensive cortex, indicating that quartz was procured as pebbles. Most of the quartz objects are of fairly poor flaking quality, and this may have been a factor in their relative unpopularity in the current assemblage.



**Plate 28: Quartz cone-split broken flake refits ID263 and ID274.**

From OA3 pit 8 spit 8 and spit 10. Scale 10 mm long in 1 mm increments.



**Plate 29: Quartz cone-split broken flake right side ID1540.**

From OA5 pit 5 spit 8 and spit 10. Scale 10 mm long in 1 mm increments.

Quartz pebbles occur naturally within conglomerate bands in the Nowra Sandstone which outcrops along the lower reaches of Bomaderry Creek and in the Shoalhaven River valley (Lampert and Steele 1993:55). It also occurs in the Hawkesbury Sandstone above the Illawarra escarpment (Bowman et al. 1986:27-32).

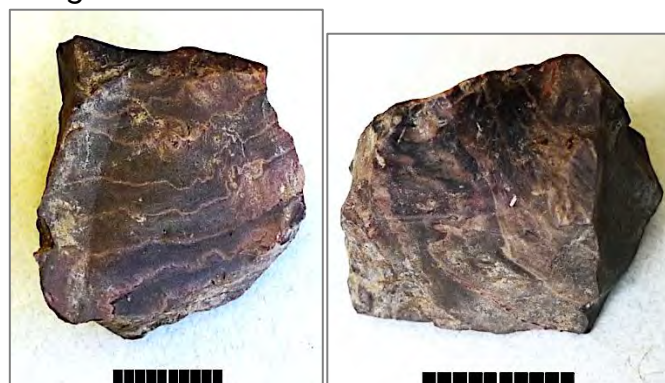
## 6.6 SILICIFIED WOOD (FOSSIL OR PETRIFIED WOOD)

Silicified wood is uncommon in the assemblage, with only 15 objects making up 0.7% of all objects. Most of the silicified wood objects are grey, pale grey and grey-brown. One-third of the objects retain cortex, including two with extensive cortex. However, cores were probably flaked before being carried to the site.



**Plate 30: Silicified wood cone-split broken flake left side ID1258.**

From OA4 pit 11 spit 6. Scale 10 mm long in 1 mm increments.



**Plate 31: Silicified wood core fragment ID1027.**

From OA4 pit 6 spit 5. Scale 10 mm long in 1 mm increments.

Silicified wood occurs naturally in the Illawarra Coal Measures, particularly in the Pheasants Nest Formation (Bowman et al. 1986:16). Silicified wood eroded from those formations occurs naturally in streams west of Lake Illawarra (GML Heritage 2022). Silicified wood also occurs in Kangaroo Valley (Paix 2013:33-34).

There may have been less silicified wood in the current assemblage because it occurred in the Cambewarra area only as chance finds, or people had to carry the material from more distant sources, and/or because it occurred within the country of another social group, perhaps occupying Kangaroo Valley.

## 6.7 OTHER MATERIALS

Thirty-six objects of other materials were recovered. These include possible igneous materials and unidentified materials. Half retain cortex, some with extensive cortex, indicating that local sources are likely, perhaps as chance finds.



**Plate 32: Possible volcanic flake ID1543.**  
From OA5 pit 5 spit 9. Scale 10 mm long in 1 mm increments.



**Plate 33: Igneous broken cobble ID1888.**  
From OA6 pit 8 spit 4. Scale 30 mm long in 10 mm increments.

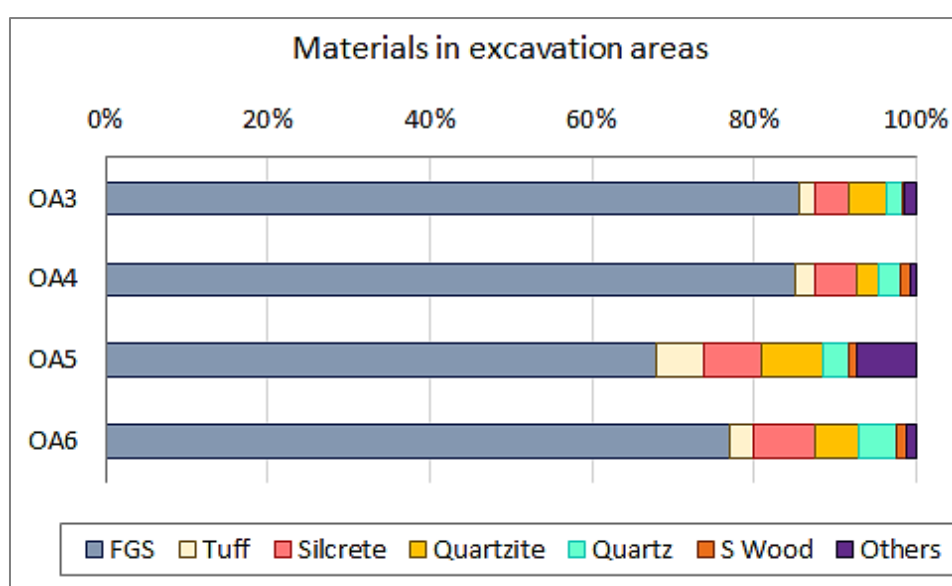
## 6.8 MATERIALS IN EXCAVATION AREAS

FGS is predominant in all excavation areas (Table 4, Figure 8). People focused their procurement and flaking activities on the locally available material type, across the site. OA5 has a slightly lower proportion of FGS (68%) with 7% of objects of 'other' material, possibly volcanic (Plate 32) from a distinctive flaking activity.

Excavation areas with larger sample sizes have some objects of diverse material types, indicating that multiple activities were carried out at all sampled locations within 100 m of Bomaderry Creek. Diverse materials also indicate that people visiting the site had travelled from other areas, or met with people from other areas, collecting some non-local materials on their journeys.

**Table 4: Materials in excavation areas.**

Material	OA1	OA2	OA3	OA4	OA5	OA6	Total
FGS	20	9	722	477	150	303	1,681
Tuff			19	14	13	11	57
Silcrete			34	29	16	30	109
Quartzite			39	14	17	21	91
Quartz			18	15	7	19	59
S Wood				7	2	5	14
Others			12	4	16	4	36
<b>Total</b>	<b>20</b>	<b>9</b>	<b>844</b>	<b>560</b>	<b>221</b>	<b>393</b>	<b>2,047</b>



**Figure 8: Materials in excavation areas, by % frequency. OA1 and OA2 not included due to small sample sizes.**

## 6.9 TYPES OF OBJECTS

### 6.9.1 HAMMERSTONE

An elongate cobble has limited pitting/damage along one face near the tip, but not at the tip, suggesting that it may have been used in a task other than stone flaking (Plate 34). It is relatively large, measuring 96 mm long and weighing 294 g.



**Plate 34:**  
Quartzite  
hammerstone  
ID102.

From OA3 pit 4  
spit 9. Scale 30  
mm long in 10  
mm increments.

**Table 5: Materials and types of objects**

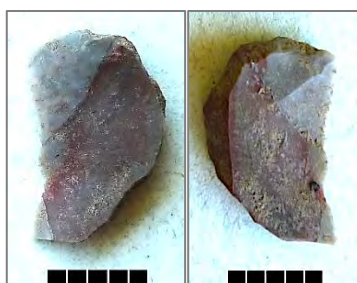
Category	FGS	Tuff	Silcrete	Quartzite	Quartz	S Wood	Others	Total
Hammerstone				1				1
Backed artefact	9							9
Retouched art.	20		2	3		2		27
Possible use-wear	7							7
Core	22				4	1		27
Bipolar core			1					1
Bipolar artefact	4				3			7
Platform artefact	342	14	54	44	16	3	11	484
FF/FP artefact	281	7	42	21	18	3	4	376
Heat shatter with remnant flaked	127	4	5		1		3	140
Heat shatter	607	18		1	1		7	634
Broken piece with remnant flaked	11	2						13
Broken piece	231	12	5	19	16	5	9	297
Manuport	20			2			2	24
<b>Total</b>	<b>1,681</b>	<b>57</b>	<b>109</b>	<b>91</b>	<b>59</b>	<b>14</b>	<b>36</b>	<b>2,047</b>
MNI	373	13	48	42	17	6	11	510

### 6.9.2 BACKED ARTEFACTS

Backed artefacts are notable because the retouching shaped the artefact, rather than modifying the working edge. As such people could have retouched the artefacts to particular shapes or sizes to fit into the hafts of composite implements (Way et al 2023) and/or to signify affiliation (or otherwise) to certain social groups (Munt et al.

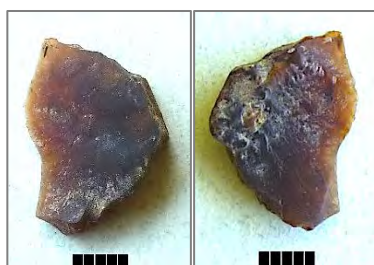
2023). Backed artefacts are also notable because, on the South Coast, most were made between c.4,000 and 1,700 cal BP (Apex Archaeology 2024; Boot 1994; Lampert and Steele 1993).

Nine backed artefacts are present, all of FGS material (Plate 35 to Plate 41). Two broken backed artefacts have damage along the chord (sharp margin) which may be use-wear (OA3 ID718 and OA4 ID1084). The six complete backed artefacts vary in size, from 10 mm to 25.5 mm long. They fall within the size range of backed artefacts from 126 Taylors Lane, although four of the five are relatively narrow (Figure 9). Two of the broken backed artefacts are also narrow Bondi points (Plate 40, Plate 41, lower right of Figure 9). Variation in shape indicates that the backed artefacts came from different hafts (composite implements, cf. Way et al. 2023) or that they were carried by people with different social affiliations (cf. Munt et al. 2023).



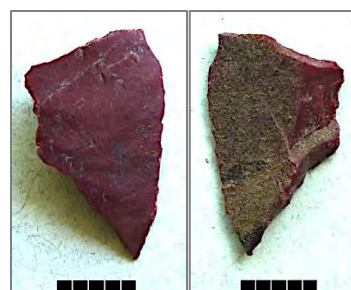
**Plate 35: Backed artefact ID143.**

From OA3 pit 6 spit 5. Scale 5 mm long in 1 mm increments.



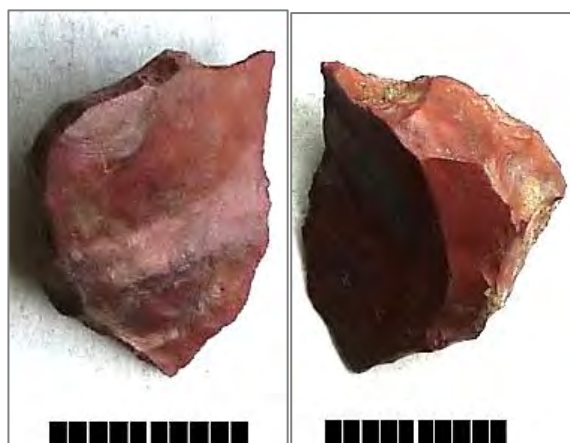
**Plate 36: Backed artefact ID533.**

From OA3 pit 16 spit 6. Scale 5 mm long in 1 mm increments.



**Plate 37: Backed artefact ID724.**

From OA3 pit 20 spit 4. Scale 5 mm long in 1 mm increments.



**Plate 38: Backed artefact ID1598.**

From OA5 pit 8 spit 3. Scale 10 mm long in 1 mm increments.



**Plate 39: Backed artefact ID2040.**

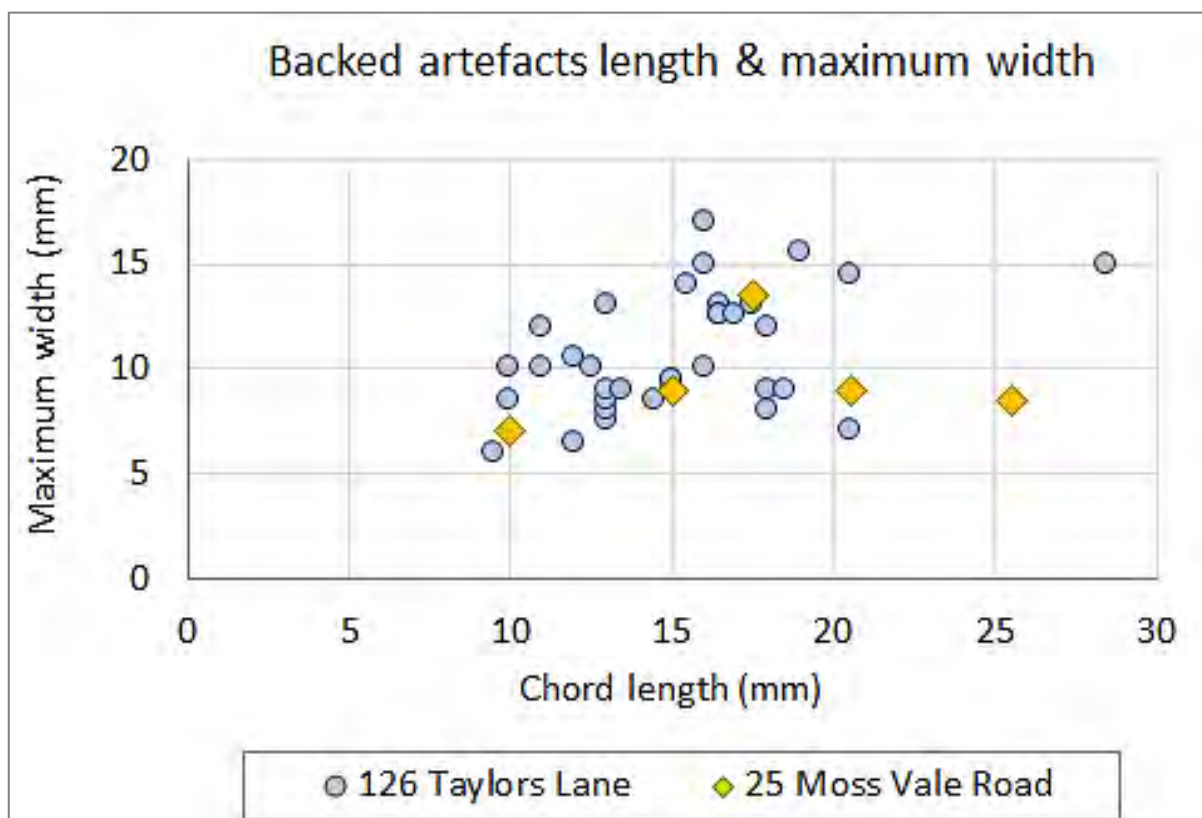
From OA6 pit 12 spit 2. Scale 10 mm long in 1 mm increments.



**Plate 40: Backed artefact ID723.**  
From OA3 pit 20 spit 4. Scale 5 mm long in 1 mm increments.



**Plate 41: Backed artefact ID730.**  
From OA3 pit 20 spit 5. Scale 5 mm long in 1 mm increments.



**Figure 9: Length and maximum width of complete backed artefacts at 25 Moss Vale Road and 126 Taylors Lane.**

### 6.9.3 OTHER RETOUCED ARTEFACTS

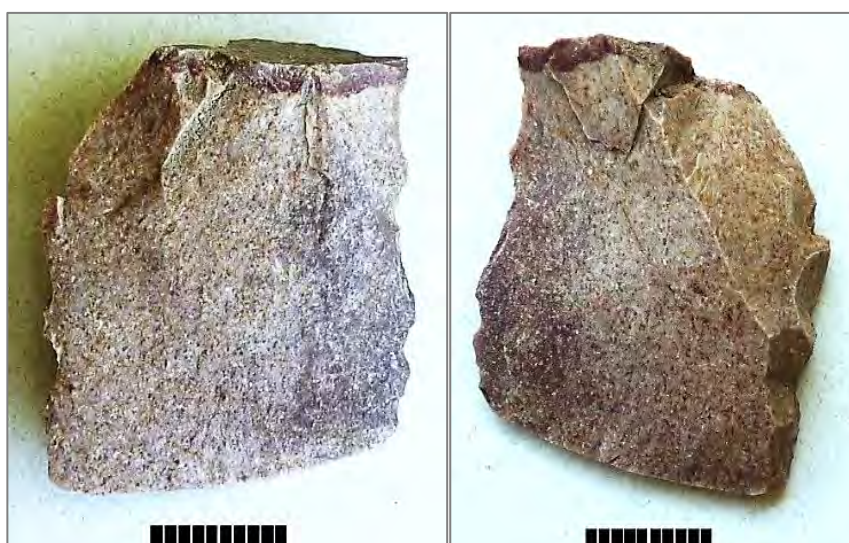
Twenty-seven (27) other retouched artefacts are present. These are mostly of FGS but also present are two of silcrete, three of quartzite and two of silicified wood. Two of the broken quartzite retouched artefacts refit (Plate 42).



**Plate 42: Retouched quartzite cobbles ID936 and 985, refit.**

From OA4: 936 in pit 4 spit 5 refits to 985 in pit 5 spit 7. Scale two left images 30 mm long in 10 mm increments. Scale two right images 10 mm long in 1 mm increments.

Some of the retouched artefacts are sufficiently complete to be able to appreciate the nature of the retouch. Ten artefacts have notches – some of these are simple notches, formed by a single flake scar (Plate 43), but at least six artefacts have complex notches (two or more small scars within the notch, Hiscock and Attenbrow 2005:54-55) (Plate 44 to Plate 47). Several artefacts have steep retouch, sometimes forming a convex (rounded, scraper-like) edge (Plate 19). Other objects have small and/or irregular retouch (Plate 48, Plate 49). Variation in the nature of retouch could potentially relate to function, extent of reduction or retouching/rejuvenation of tool edges (Hiscock and Attenbrow 2005; Holdaway and Stern 2004; Witter 1990).



**Plate 43: Notched retouched artefact ID61.**

Simple notches left lateral and other damage right lateral. From OA3 pit 2 spit 8. Scale 10 mm long in 1 mm increments.



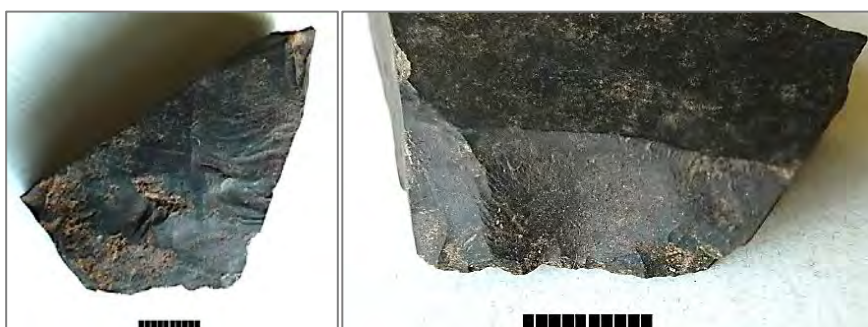
**Plate 44: Notched retouched artefact ID1556.**

Complex notches.  
From OA5 pit 6 spit 7.  
Scale 10 mm long in 1 mm increments.



**Plate 45: Notched retouched broken artefact silicified wood ID1736.**

Not cleaned. From OA6 pit 3 spit 5. Scale 10 mm long in 1 mm increments.



**Plate 46: Notched retouched broken artefact FGS ID1784.**

From OA6 pit 5 spit 3.  
Scale 10 mm long in 1 mm increments.



**Plate 47: Notched retouched FGS flake ID1930.**

Not cleaned. From OA6 pit 8 spit 7. Scale 10 mm long in 1 mm increments.



**Plate 48: Retouched artefact ID204.**

From OA3 pit 7 spit 9.  
Scale 10 mm long in 1 mm increments.



**Plate 49: Retouched artefact ID271.** From OA3 pit 8 spit 9. Scale 10 mm long in 1 mm increments.

#### 6.9.4 EDGE-DAMAGE AND POSSIBLE USE WEAR

Seven FGS artefacts have edge damage which may be use-wear, although this would need to be confirmed by microscopic use-wear and/or residue analysis. Other artefacts may also have microscopic use-wear, not identified by the current analysis.

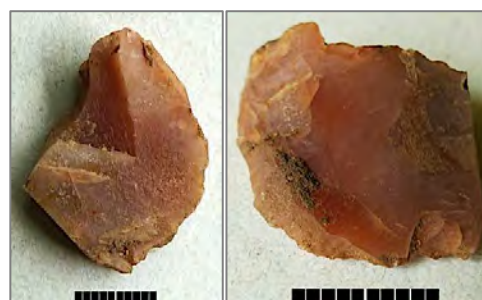
Longitudinal cone-split broken flake ID380 has rounding/polish and fine damage on its distal tip (Plate 50). Broken flake ID861 has fine irregular damage along the right lateral margin (Plate 51). Medial fragment ID1859 (Plate 52) is a distinctive material without matching debitage and was probably made elsewhere and carried to the site. It has fine damage along both lateral margins, which could be damage from transport and/or use-wear. Other artefacts with edge-damage include ID1202, ID1349, ID1534 and ID2008.

Quartzite longitudinal cone-split broken flake ID1593 has rounding/polish on the dorsal edge of the platform (Plate 53). This artefact was probably struck from a cobble implement, indicating tool resharpening.



**Plate 50: Possible use-wear FGS cone-split broken flake left side FGS ID380.**

From OA3 pit 12 spit 4. Scale 10 mm long in 1 mm increments.



**Plate 51: Possible use-wear FGS broken flake ID861.**

From OA4 pit 1 spit 4. Scale 10 mm long in 1 mm increments



**Plate 52: Possible use-wear medial fragment FGS ID1859.** From OA6 pit 6 spit 5. Scale 10 mm long in 1 mm increments.



**Plate 53: Quartzite cone-split broken flake left side struck from possible tool ID1593.** Curved line indicates possible polish. From OA5 pit 7 spit 8. Scale 30 mm long in 10 mm increments.

### 6.9.5 CORES

Twenty-eight (28) cores were recovered, and like the retouched artefacts, more than half are broken. Most are of FGS but four are of quartz and one is of silicified wood. A single silcrete bipolar core is present.

Five FGS cores are flaked nodules (Plate 18, Plate 54), two quartz cores are flaked pebbles (Plate 55) and the remainder of the cores have indeterminate bodies (Table 6). No cores have recognisable flake bodies. Complete nodule cores are more than 50 mm in size (Table 7). A single indeterminate core within this size range (Plate 56) retains moderately extensive cortex and was probably also procured as a nodule. Smaller cores have indeterminate bodies and have no or little cortex. It is likely that cores were procured as nodules and pebbles and with continued flaking cortex was removed and the cores became smaller in size. This is a classic model of reduction during which one nodule resulted in one core (Clarkson 2007:83-88; Hiscock 2007). An alternative model of reduction involved the fragmentation of a large rock into smaller pieces (flakes, pieces which broke along flaws) then those smaller pieces were used as cores (core nesting, Moore 2000). This latter strategy is evident at nearby site 126 Taylors Lane (Apex Archaeology 2024).



**Table 6: Cores – materials and core body (type).**

Type	FGS	Silcrete	Quartz	S Wood	Total
Nodule	5				5
Pebble			2		2
Indeterminate	17	1	2	1	21
<b>Total</b>	<b>22</b>	<b>1</b>	<b>4</b>	<b>1</b>	<b>28</b>

**Table 7: Cores – Size and core body (type)**

Breakage	Size (mm)	Nodule	Pebble	Indeterminate	Total
Complete	20.5-25			1	1
	25.5-30			1	1
	30.5-35			1	1
	35.5-40			2	2
	40.5-45			1	1
	45.5-50		1		1
	55.5-60	1			1
	60.5-65	1		1	2
	70.5-75	2			2
	<b>Sub-total</b>		<b>4</b>	<b>1</b>	<b>7</b>
Broken	15.5-20			1	1
	20.5-25			2	2
	25.5-30	1		4	5
	30.5-35			5	5
	35.5-40		1		1
	40.5-45			1	1
	45.5-50			1	1
<b>Total</b>		<b>5</b>	<b>2</b>	<b>21</b>	<b>28</b>

Unifacial flaking is the predominant technique, used to reduce FGS, quartz and silicified wood cores (Table 8, Plate 54 to Plate 57). Three broken cores show bifacial and/or asymmetric flaking (Plate 58). The latter technique is notable because it was sometimes used to produce flake blanks for making backed artefacts (Hiscock 1993; Holdaway and Stern 2004:204-206; White 2018:61,74-76). However, there is no firm evidence in the assemblage that people made backed artefacts on the site.

**Table 8: Cores – Materials and flaking pattern.**

Flaking pattern	FGS	Silcrete	Quartz	S Wood	Total
Unifacial	19		3	1	23
Bifacial	1				1
Bifacial or asymmetric	1				1
Asymmetric	1				1
Bipolar		1			1
Indeterminate			1		1
<b>Total</b>	<b>22</b>	<b>1</b>	<b>4</b>	<b>1</b>	<b>28</b>



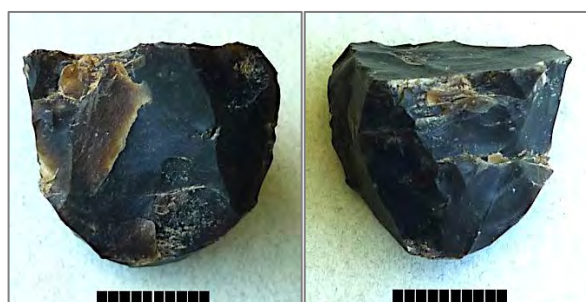
**Plate 54: Nodule core FGS ID519.**  
From OA3 pit 16 spit 3. Scale 30 mm long in 10 mm increments.



**Plate 55: Pebble core quartz ID1578.**  
From OA5 pit 7 spit 4. Scale 30 mm long in 10 mm increments.



**Plate 56: Core FGS ID363.**  
From OA3 pit 11 spit 6. Scale 30 mm long in 10 mm increments.



**Plate 57: Core FGS ID708.**  
From OA3 pit 19 spit 9. Scale 10 mm long in 1 mm increments.

The single silcrete core shows bipolar flaking (Plate 59). No matching bipolar silcrete flaking debris was recovered, and the core is relatively large for its type, measuring 42 mm and weighing 27 g. This core was not flaked on site but was carried in from elsewhere.



**Plate 58: Broken bifacial core FGS ID970.**  
From OA4 pit 5 spit 3. Scale 10 mm long in 1 mm increments



**Plate 59: Bipolar silcrete core ID1334.**  
From OA4 pit 13 spit 4. Scale 10 mm long in 1 mm increments.

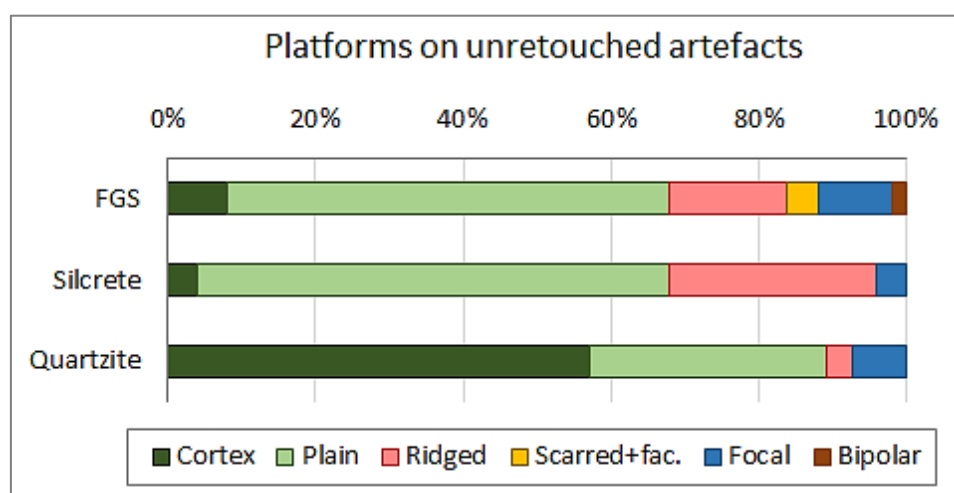
### 6.9.6 UNRETOUCHED FLAKES AND PROXIMAL BROKEN FLAKES

Type of platform surface was recorded on complete flakes and proximal broken flakes more than 10 mm in size (Table 9). The assemblage includes a relatively high proportion of artefacts with cortical or plain platforms – together these types make up 71% of classified platform artefacts (Table 9). This predominance is consistent with a strong emphasis on unifacial flaking. This emphasis is more pronounced for quartzite than for FGS and silcrete (Figure 10). Ridged platforms are more frequent on FGS (16%) and silcrete artefacts (28%) than quartzite (4%), indicating more core rotation for the former materials.

The sample includes only seven platform artefacts with scarred and faceted platforms (3%), indicative of bifacial and/or asymmetric flaking. This low proportion is consistent with the presence of only two cores with bifacial and/or asymmetric flaking. Bipolar flaking was also uncommon, with only three FGS and three quartz bipolar artefacts in this sample.

**Table 9: Materials and platforms on retouched flakes.**

Material	Cortex	Plain	Ridged	Scarred	Faceted	Focal	Bipolar	Total classified	Part crushed	Crushed
FGS	13	97	26	6	1	16	3	162	12	32
Silcrete	1	16	7			1		25	3	6
Quartzite	16	9	1			2		28		2
Tuff	1	6				1		8	1	2
Quartz	2	1					3	6		
Others	2	2						4	2	
<b>Total</b>	<b>35</b>	<b>131</b>	<b>34</b>	<b>6</b>	<b>1</b>	<b>20</b>	<b>6</b>	<b>233</b>	<b>18</b>	<b>42</b>



**Figure 10: Materials and platforms on unretouched artefacts, by % frequency. Note that one faceted platform is included with scarred platforms.**



Dorsal platform angle was recorded for complete flakes whose dorsal surfaces were sufficiently straight to provide an angle for measurement. Platform angles vary widely, ranging between 20° and 98° (Table 10). Overall average platform angle of 65° is relatively low.

Silcrete appears to have a lower average platform angle (59 °) and quartzite a higher average angle (72 °) but these variations could have arisen by random chance (FGS vs silcrete  $p=.219$ ; FGS vs quartzite  $p=.332$ ; silcrete vs quartzite  $p=.162$ ).

**Table 10: Materials and dorsal platform angles on retouched flakes**

Material	Dorsal platform angle (degrees)						Total	Average angle
	20-49	50-59	60-69	70-79	80-89	90-99		
FGS	9	9	10	12	13	2	55	66
Tuff	1	1	1				3	-
Silcrete	2	2	5	4	1		14	59
Quartzite	1	1	3	1	3	2	11	72
Quartz			1				1	-
Others	1	1		1	1		4	-
<b>Total</b>	<b>14</b>	<b>14</b>	<b>20</b>	<b>18</b>	<b>18</b>	<b>4</b>	<b>88</b>	<b>65</b>

### 6.9.7 BREAKAGE

The breakage rate is high, with only 9% of objects being complete. The rate of breakage of artefacts (complete vs broken flaked artefacts) is very similar between material types (Figure 11, not including silicified wood and other minor materials due to small sample sizes).

In addition to broken flaked artefacts the assemblage also includes heat shatters, heat shatters which retain remnant flaked surfaces, and broken pieces of cultural stone (Table 5). FGS and tuff have much higher proportions of heat shatters than silcrete, quartz and quartzite (Figure 12). These materials may have been more susceptible to breakage by heat than other materials. Studies elsewhere found that tuff tends to break at a lower temperature than silcrete, and silcrete from different sources also tends to fracture at different temperatures (Mackay et al. 2019; Merceica and Hiscock 2008). Hence, differences in the rates of heat breakage of different material types could relate to the properties of those materials rather than, or in addition to, variation in the heat of burning events and timing of individual burning and discard activities.

The proportions of other broken pieces, including objects which broke along incipient flaws, is also notable, making up 14% to 27% of material types, except silcrete which has a lower rate of only 5% broken pieces. This suggests that silcrete may have been of better flaking quality than other materials; perhaps due to prior preparation and selection of better quality stone before transport over a longer distance.



Calculation of the estimated minimum number of individual artefacts (MNI) summarises the number of artefacts in the assemblage taking breakage into account. Some 22% of FGS objects and 23% of tuff objects are represented by MNI's, while silcrete and quartzite have higher proportions of MNI's at 44% and 46%.

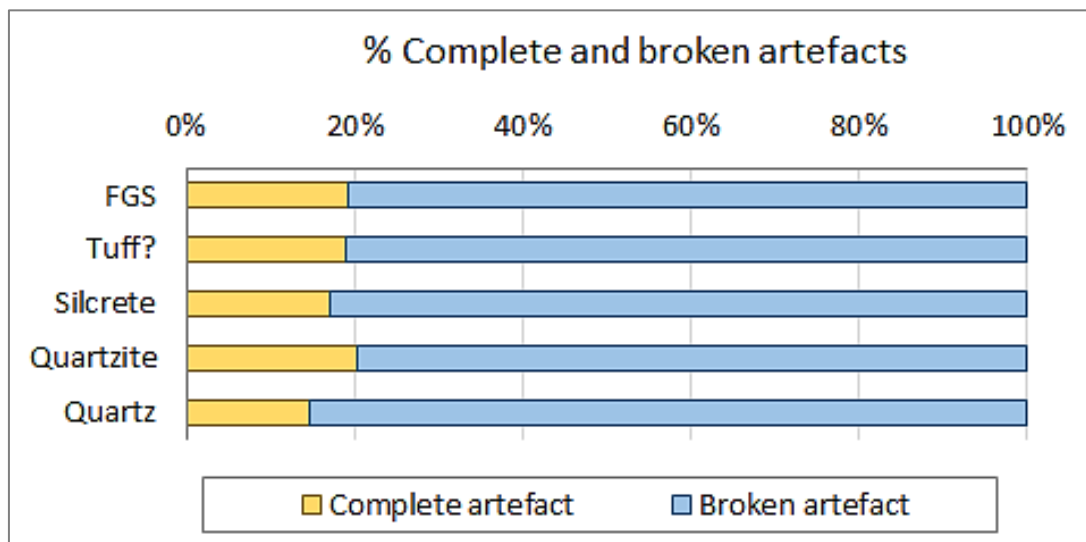


Figure 11: Complete versus broken artefacts by materials, by % frequency

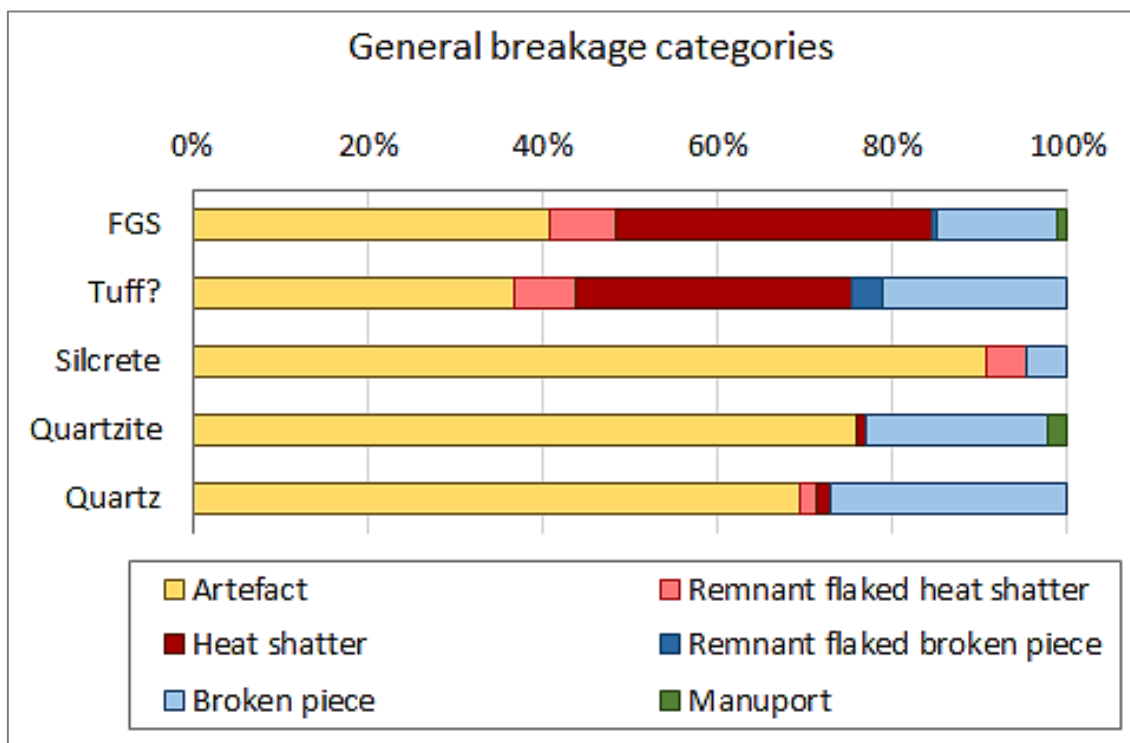


Figure 12: General breakage categories by materials by % frequency



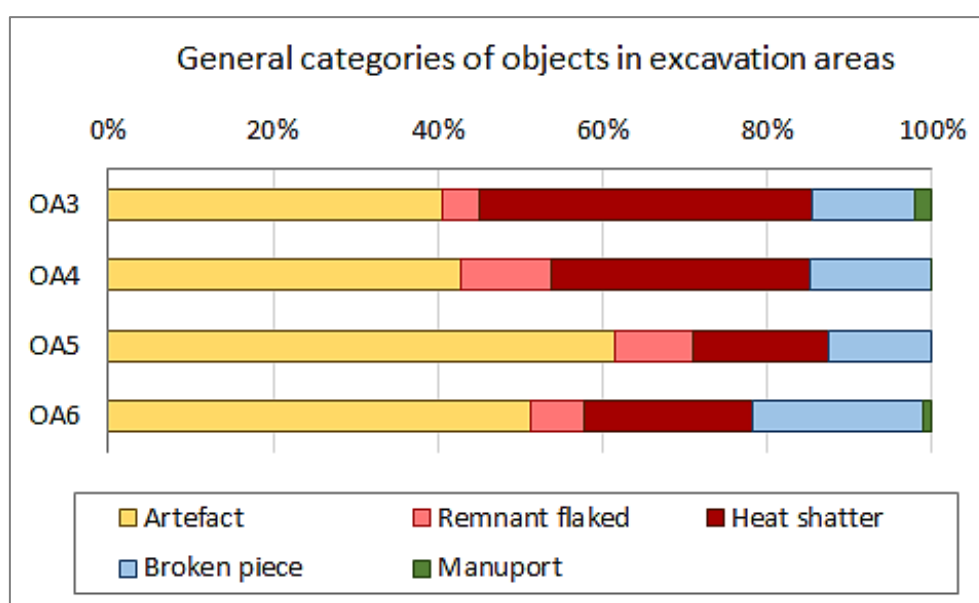
### 6.9.8 TYPES OF OBJECTS IN EXCAVATION AREAS

Some variation in general categories (types) of objects is present across the site (Table 11). OA5 has the lowest proportion of heat shatters (16%) while OA3 and OA4 have higher proportions (40% and 31% respectively). OA6 has the highest proportion of other broken pieces (fractures along flaws or other breakage) (21% vs 12-15%).

The MNI estimates summarise the number of artefacts in each assemblage taking breakage into account. OA5 has the highest proportion of 34% MNI artefacts while OA3 and OA4 have lower proportions of 23% and 21% respectively. This means that OA3 and OA4 tend to have more objects per flake (higher breakage rates) than OA5 and OA6. This is reflected in the lower proportions of complete objects in each assemblage (bottom Table 11).

**Table 11: General categories of objects in excavation areas.**

General category	OA1	OA2	OA3	OA4	OA5	OA6	Total
Artefact	14	6	343	239	136	201	<b>939</b>
Remnant flaked	5	1	38	62	21	26	<b>153</b>
Heat shatter		1	341	176	36	80	<b>634</b>
Broken piece	1		104	82	28	82	<b>297</b>
Manuport		1	18	1		4	<b>24</b>
<b>Total</b>	<b>20</b>	<b>9</b>	<b>844</b>	<b>560</b>	<b>221</b>	<b>393</b>	<b>2047</b>
MNI estimates	4	4	191	119	74	118	510
% MNI of total objects	-	-	22.6	21.3	33.5	30.0	24.9
Complete objects	2	1	66	39	25	46	179
% Complete objects	-	-	7.8	7.0	11.3	11.7	8.7



**Figure 13: General categories of objects in excavation areas, by % frequency. OA1 and OA2 not included due to small sample sizes.**



Types of flaked artefacts did not vary substantially between the larger excavation areas (Table 12). Backed artefacts occurred in OA3 to OA6; the count of six in OA3 does not differ substantially from the combined count of three in the other three areas (Fisher exact test  $p=0.086$ ). The proportions of modified artefacts combined vary only between 7.1% and 8.5%. The proportions of platform artefacts also show little variation, ranging from 50.1% to 56.7%.

**Table 12: Types of artefacts in excavation areas.**

General category	OA1	OA2	OA3	OA4	OA5	OA6	Total
Hammerstone			1				1
Backed artefact			6	1	1	1	9
Retouched artefact			9	5	5	8	27
Possible use-wear			1	3	1	2	7
Core			10	7	4	6	27
Bipolar core				1			1
Bipolar artefact			5	1		1	7
Platform artefact	4	3	172	121	70	114	484
FF/FP artefact	10	3	139	100	55	69	376
<b>Sub-total artefacts</b>	<b>14</b>	<b>6</b>	<b>343</b>	<b>239</b>	<b>136</b>	<b>201</b>	<b>939</b>
% Modified artefacts	-	-	7.9	7.1	8.1	8.5	<b>7.7</b>
% Platform artefacts	-	-	50.1	50.6	51.5	56.7	<b>51.5</b>

Cores showing unifacial flaking are most frequent in each of the larger excavation areas (Table 13) indicating predominant use of unifacial flaking across the site. Similarity in the use of core flaking techniques across the site is supported by the similarity of FGS classified platforms in the larger excavation areas (Table 14, Figure 14). An apparent increase in the proportion of ridged platforms in OA6 could have arisen by random chance ( $\chi^2=3.05$ ,  $df=2$ ,  $p=.218$ ).

**Table 13: Flaking patterns on cores in excavation areas.**

Flaking pattern	OA3	OA4	OA5	OA6	Total cores
Unifacial	9	5	4	5	<b>23</b>
Bifacial		1			<b>1</b>
Bifacial or asymmetric				1	<b>1</b>
Asymmetric	1				<b>1</b>
Bipolar		1			<b>1</b>
Indeterminate		1			<b>1</b>
<b>Total</b>	<b>10</b>	<b>8</b>	<b>4</b>	<b>6</b>	<b>28</b>

**Table 14: Platforms on FGS artefacts in larger excavation areas.**

Sample	Cortex	Plain	Ridged	Scarred	Focal	Bipolar	Part crushed + crushed	Total
OA3	5	39	6	2	6	2	20	80
OA4	2	28	4	2	5		10	51
OA6	4	21	8	1	3	1	10	48

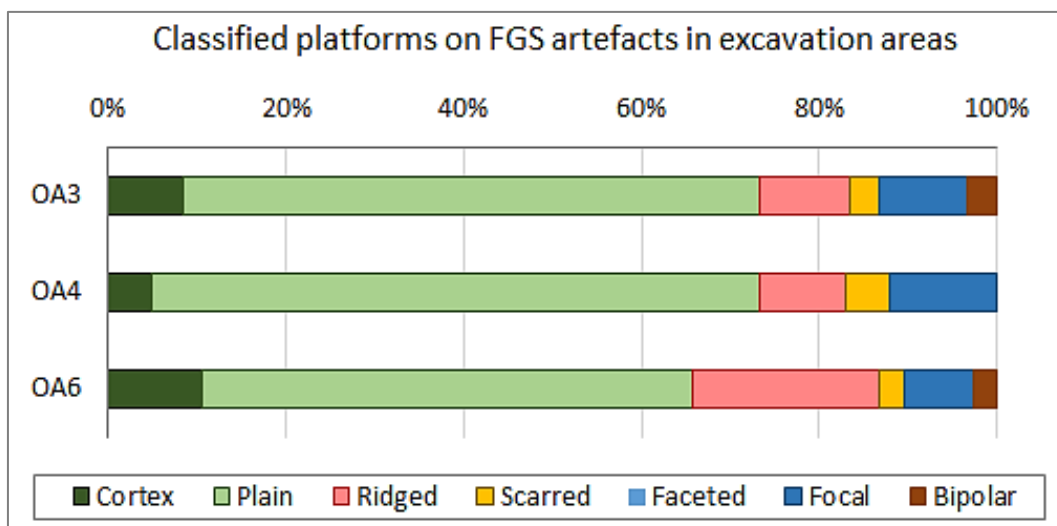


Figure 14: Classified platforms on FGS artefacts in larger excavation areas, by % frequency.

## 6.10 DENSITY AND DISTRIBUTION OF OBJECTS AT 25 MOSS VALE ROAD

### 6.10.1 DISTRIBUTION OF OBJECTS

In the current study, only small numbers of objects are present in OA1 and OA2, located c.160 and 300 m from Bomaderry Creek (Table 15, Figure 15). Higher counts occur in OA3, OA4, OA5 and OA6 located along the western edge of the lower slope above Bomaderry Creek, within 100 m of Bomaderry Creek. Densities range between a minimum of 12 and a maximum of 88 objects/m<sup>2</sup> in the larger excavation areas.

Table 15: Summary data on the densities of objects in the open areas excavations.

Variable	OA1	OA2	OA3	OA4	OA5	OA6	Total
Extent of excavation	5	5	22	16	9	12	<b>68</b>
Total objects salvage	20	9	844	560	221	393	<b>2047</b>
Objects from testing	3	4	38	7	4	8	<b>63</b>
Minimum density objects	1	2	14	19	12	25	<b>1</b>
Maximum density objects	10	6	88	57	32	53	<b>88</b>
Average density objects/m <sup>2</sup>	4.6	2.6	40.1	35.4	25.0	33.4	<b>31.0</b>
Total MNI	4+2	4+1	191+19	119+5	74+2	118+5	<b>510+34</b>
Average density MNI	1.2	1.0	9.5	7.8	8.4	10.3	<b>8.0</b>

Note to Table 15: The MNI estimates also list counts from the test pits (Austral Archaeology 2022).

The spatial distributions are quite irregular with low density pits adjacent to moderate density pits. Distributions typical of intact high-density knapping concentrations – a high density central heart surrounded by squares with decreasing densities – are not evident within the excavation areas.

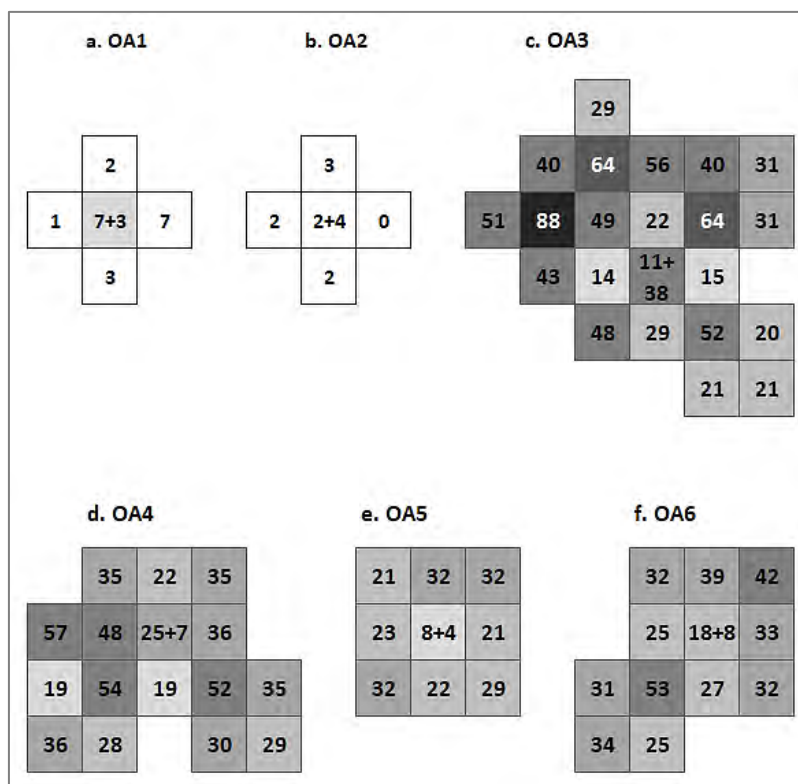


Figure 15: Spatial distribution of all objects. Counts in original test pits added to Pit 1 of each OA (e.g. OA3 pit 1 has 11 objects + 38 from the original test excavation). Not to scale.

Flaked artefacts (46% of objects) occur as low density scatters within OA3 to OA6 (Figure 16). The distribution suggests that many small to medium-scale flaking activities were carried out across the site. Objects which broke along flaws or have smooth broken surfaces (15% of objects) also occur as low density scatters across the larger excavation areas (Figure 17). They suggest that breakage was ubiquitous.

Heat shatters, and heat shatters which retain only remnant flaked surfaces, are also ubiquitous, occurring in all excavation areas (Figure 18). In OA1 and OA2 few are present, because few artefacts were discarded which could have been broken. In the other excavation areas heat shatters form continuous low to moderate density scatters. The higher count of objects in OA3 Pit 18 indicates an intensive heat shattering event.

Heat shattering could have occurred if objects were present in the immediate vicinity of camp fires (resulting in a patchy distribution), or if objects lying on the ground surface were heated during landscape burning (cultural burning or bushfires, resulting in a more continuous distribution). The wide spread of heat shatters, and their irregular distribution, suggests a combination of both forms of heat shattering.

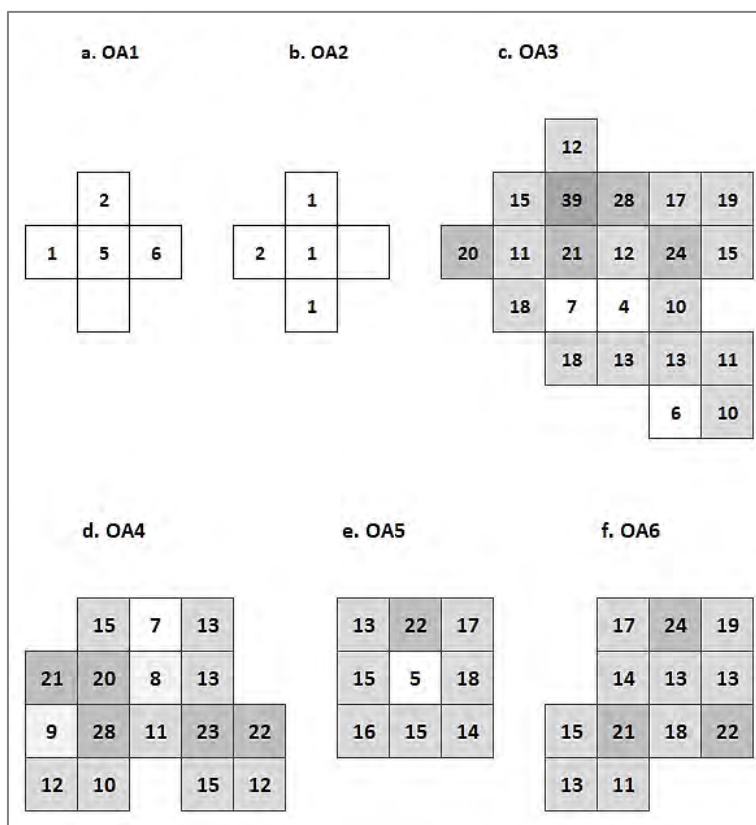


Figure 16: Spatial distribution of flaked artefacts. Not to scale.

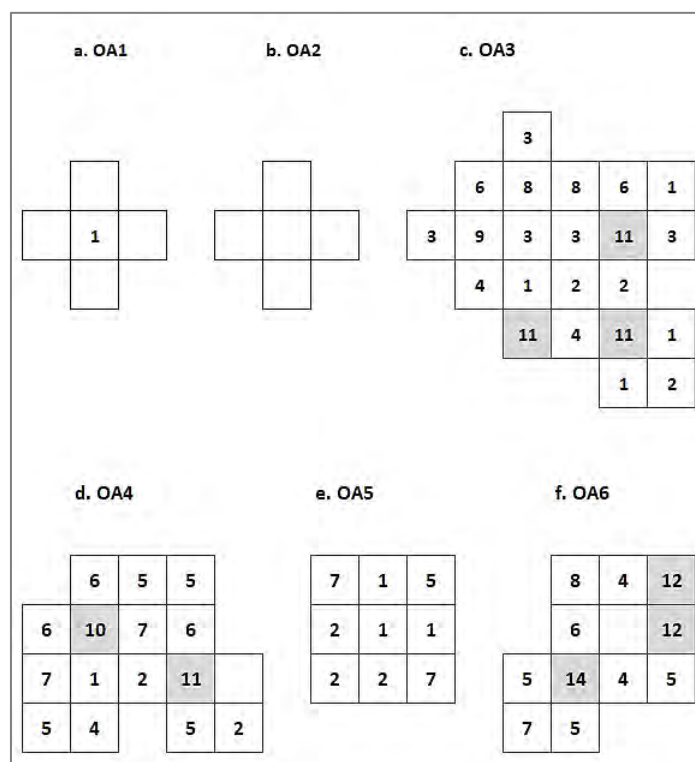
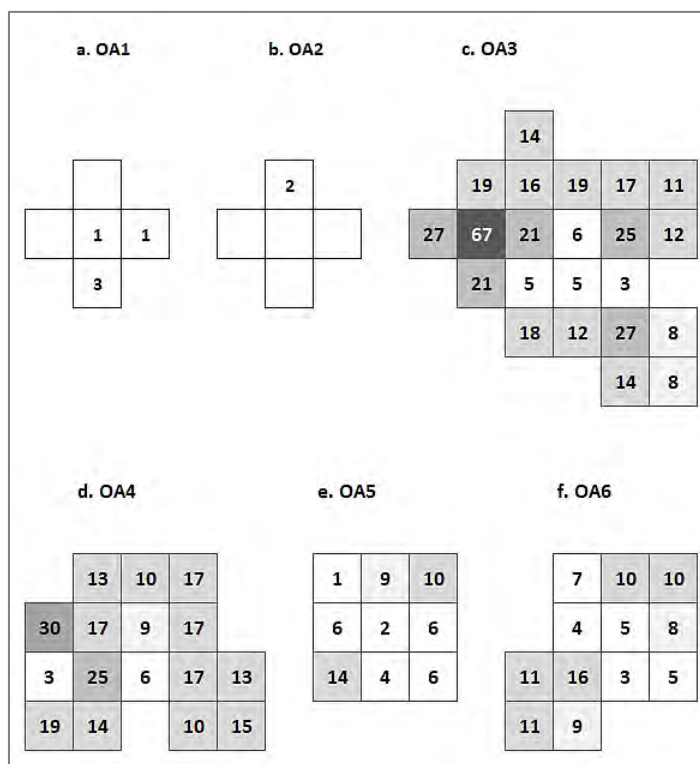


Figure 17: Spatial distribution of other broken objects. Does not include counts in original test pits as this category of breakage was not reported by Austral Archaeology 2022. Not to scale.



**Figure 18: Spatial distribution of heat shatters and heat shatters with remnant flaked surfaces.** Does not include counts in original test pits as heat shatters were not reported by Austral Archaeology 2022. Not to scale.

### 6.10.2 DISTRIBUTION OF MODIFIED ARTEFACTS

Only nine backed artefacts were recovered. Six of these occur in OA3, around the pit which contains the highest density of heat shatter. The backed artefacts in OA3 occur in spits 3 to 6, while most of the heat shatter in pit 18 occurs in spits 8 to 10, below the backed artefacts; suggesting that the spatial association is fortuitous. The other three backed artefacts occur as single finds in each of OA4, OA5 and OA6, suggesting discard during individual activities rather than on-site manufacture.

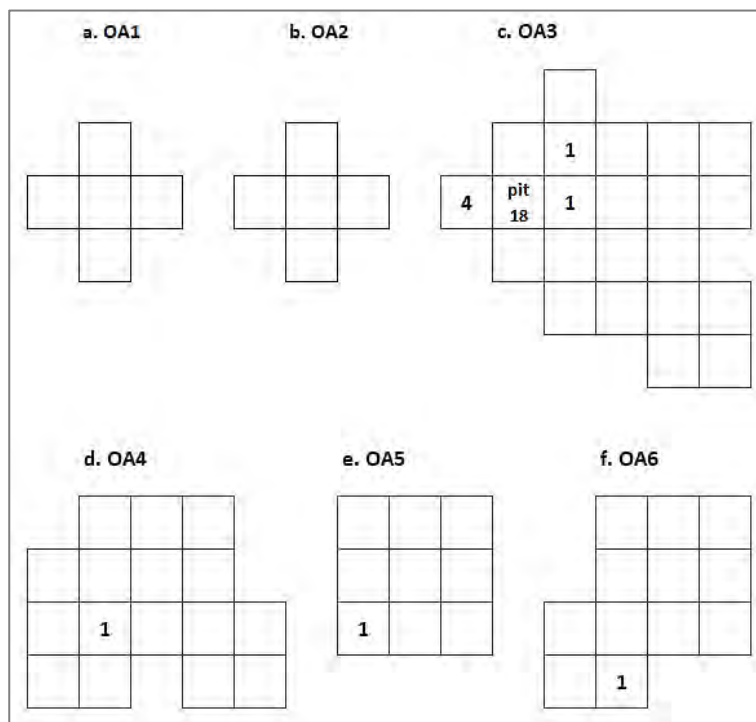


Figure 19: Spatial distribution of backed artefacts. Not to scale.

Other retouched artefacts and cores are a little more frequent than backed artefacts. In the larger excavation areas, they tend to occur in adjacent squares (Figure 20, Figure 21) suggesting that some may have been discarded during related activities.

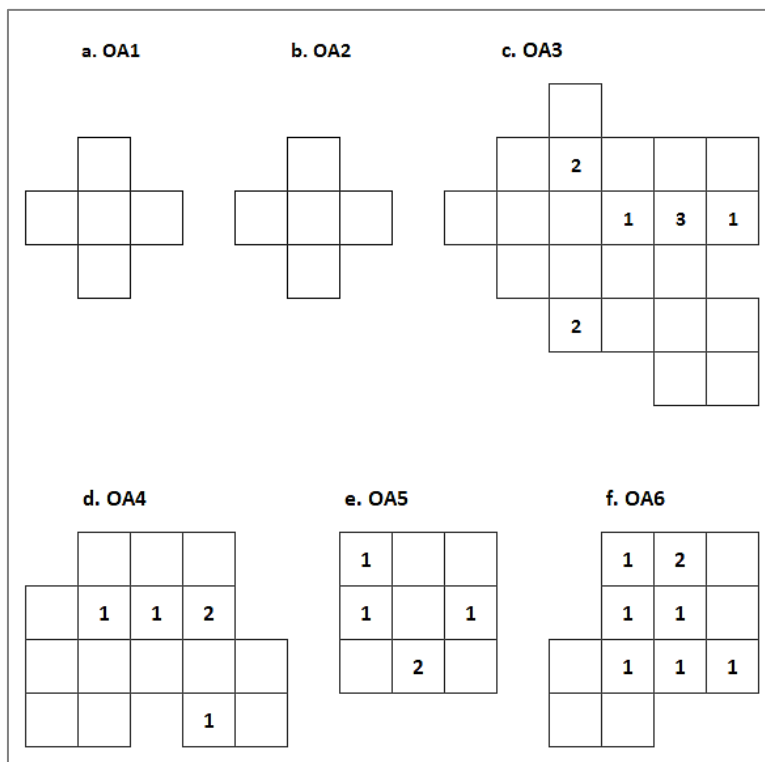


Figure 20: Spatial distribution of other retouched artefacts. Not to scale.

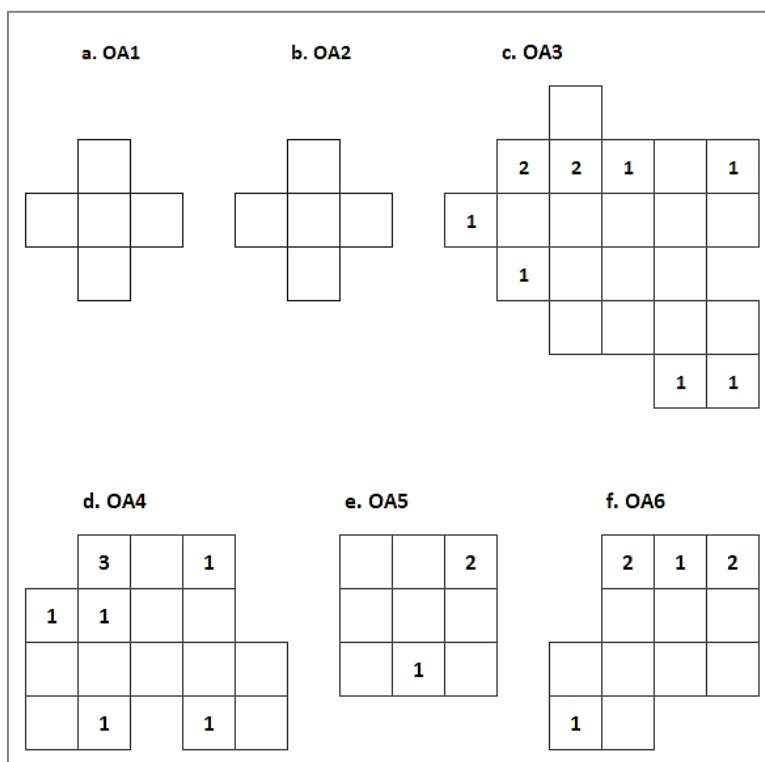


Figure 21: Spatial distribution of cores. Not to scale.



### 6.10.3 DISTRIBUTION OF MATERIAL TYPES

FGS is the predominant material type in all excavation areas, and the plot of FGS objects generally matches the plot of all objects. Objects of all other material types form low density discontinuous scatters (Figure 22 to Figure 27).

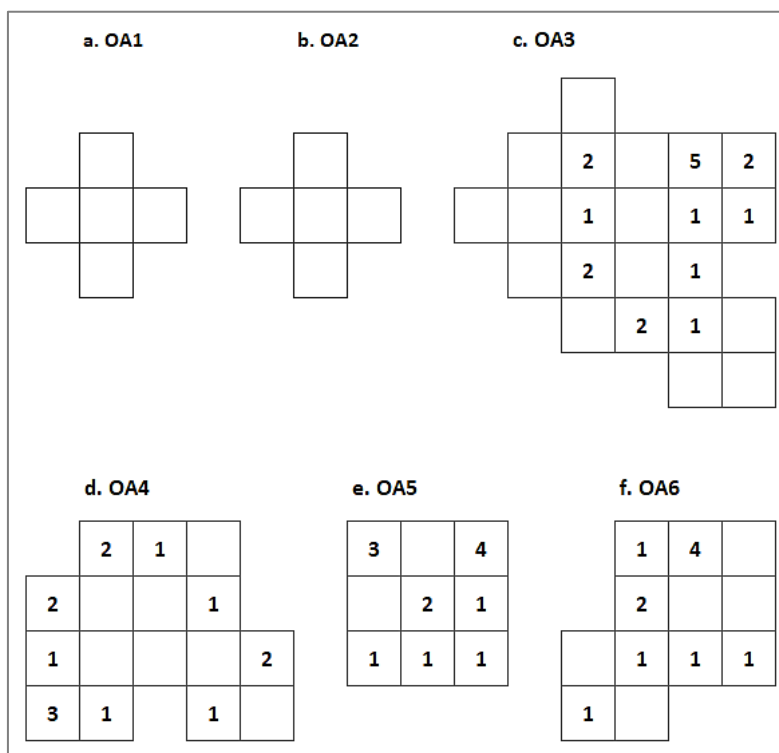


Figure 22: Spatial distribution of tuff objects. Not to scale.

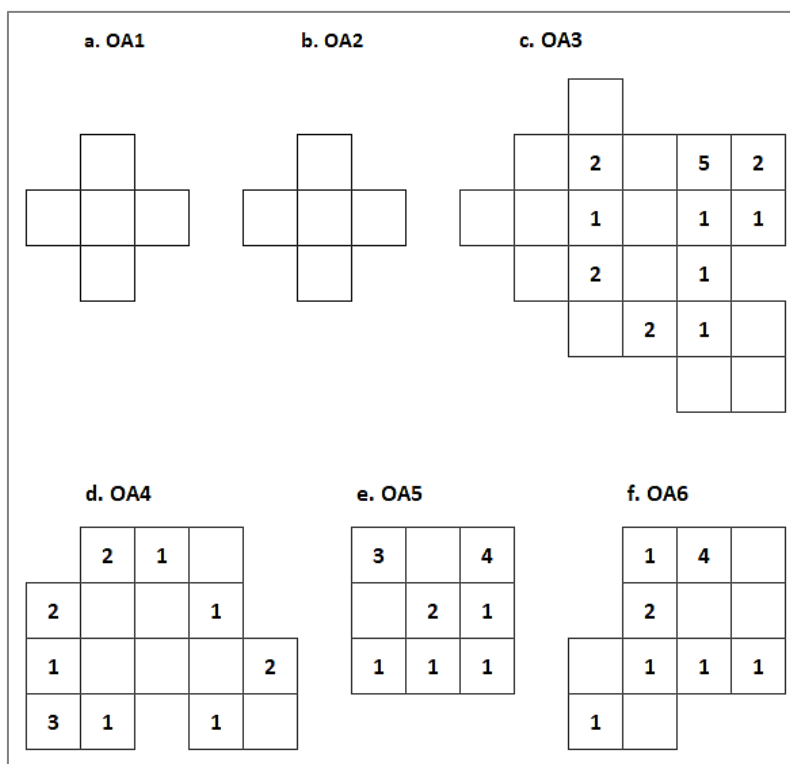


Figure 23: Spatial distribution of silcrete objects. Not to scale.

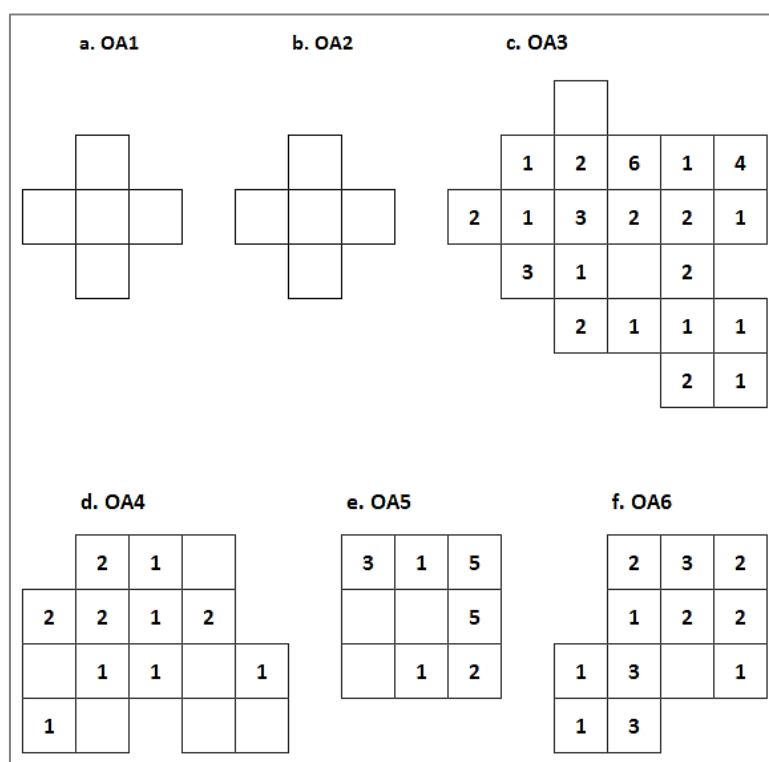


Figure 24: Spatial distribution of quartzite objects. Not to scale.

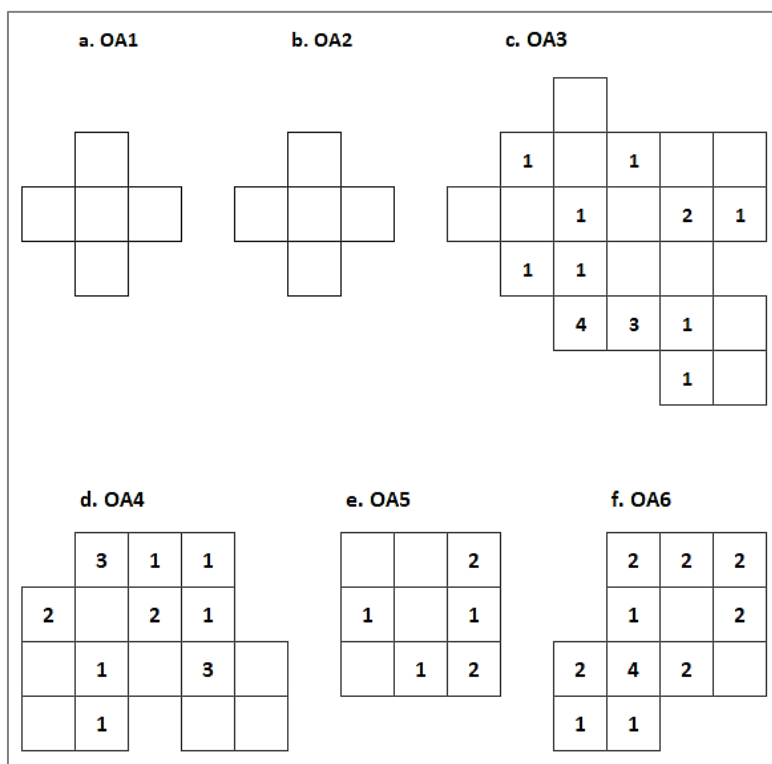


Figure 25: Spatial distribution of quartz objects. Not to scale.

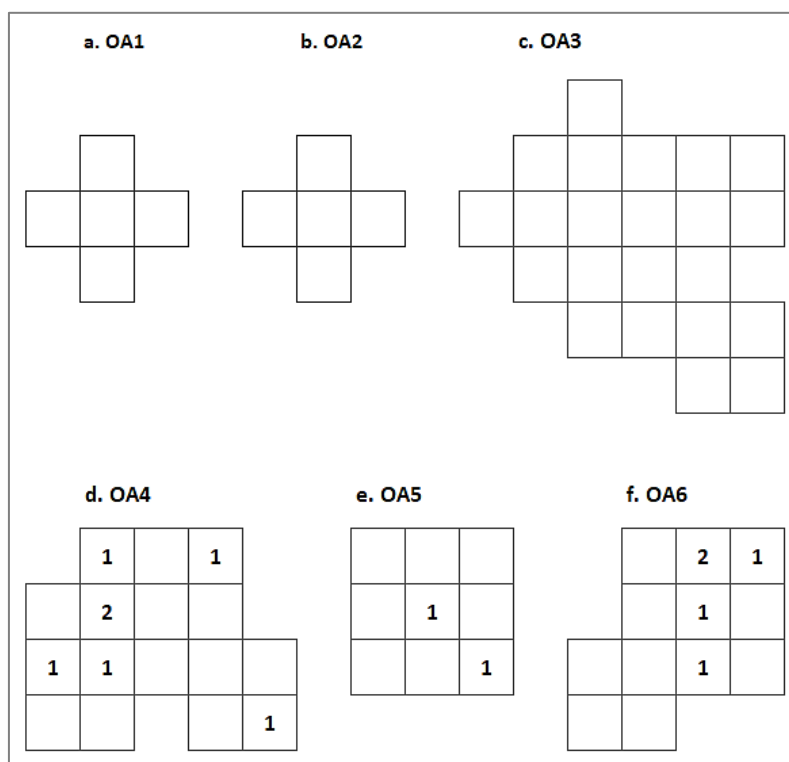


Figure 26: Spatial distribution of silicified wood objects. Not to scale.

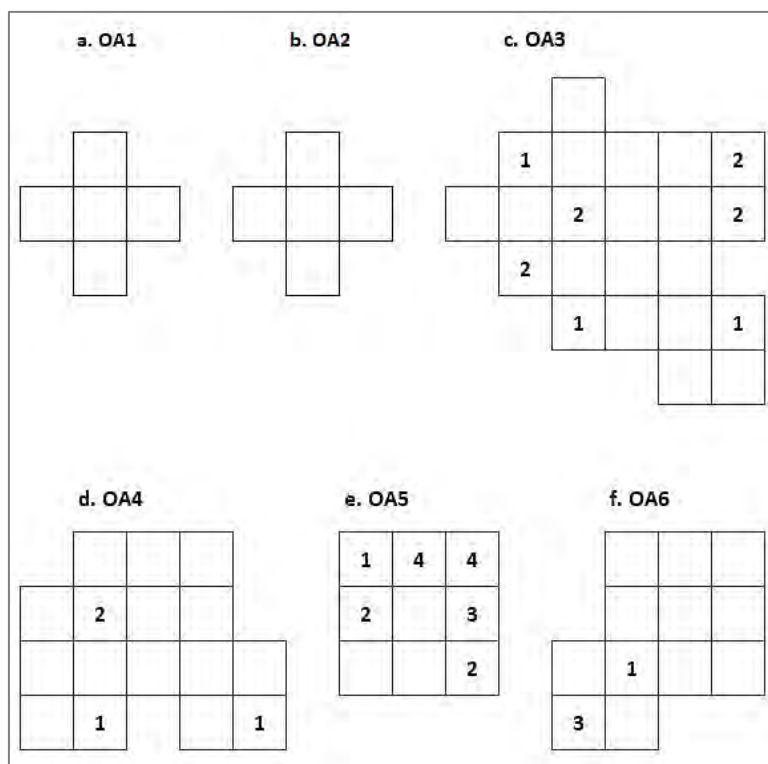


Figure 27: Spatial distribution of other material types of objects. Not to scale.

## 6.11 VERTICAL DISTRIBUTION OF THE ASSEMBLAGE

### 6.11.1 COUNTS AND WEIGHTS OF OBJECTS WITH DEPTH OF DEPOSIT

The deposit is relatively deep, with excavation down to 60 cm depth in most excavation areas, and down to 65 cm depth at OA3. OA1 is shallower, excavated to 40 cm depth. In most excavation areas, objects (by count) have unimodal distributions (Figure 28). At OA3 highest counts occur in spit 5 and spit 6, and at OA6 highest counts occur in spit 5. At OA4 maximum counts vary a little with most objects occurring in spit 3 to spit 8. At OA5 maximum counts also vary a little with most objects occurring in spit 3 to spit 7. Counts then decrease with increasing depth and also decrease in the upper spits.

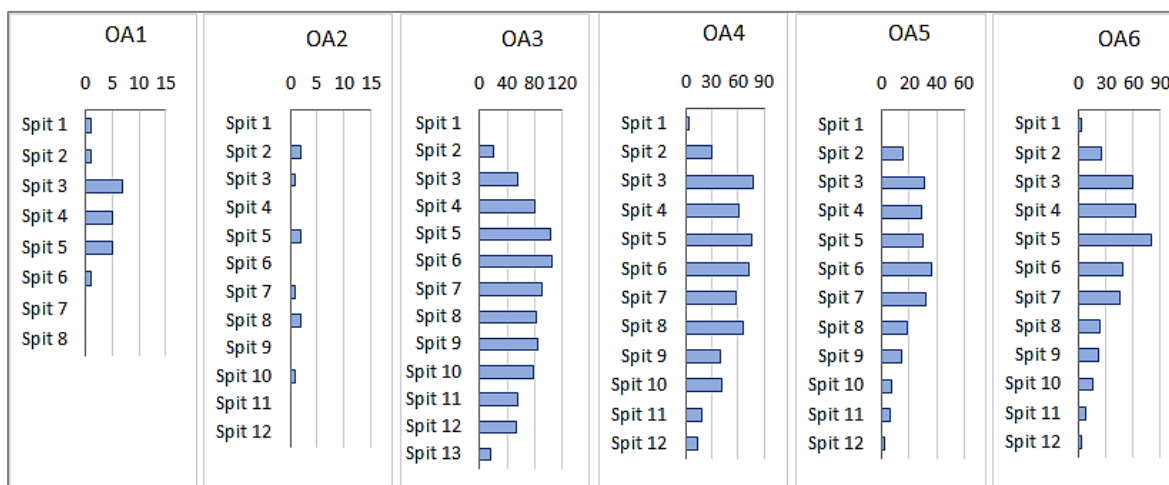


Figure 28: Vertical distribution of objects by count in excavation areas.

The vertical distribution by weight is more varied (Figure 29). OA3 has a bimodal distribution, with maximum weights in spit 5 and spit 9. OA5 also has a bimodal distribution, with maximum weights in spit 4 and spit 7. OA4 has a tendency for a trimodal distribution, with maximum weights in spit 2, spit 5 and spit 7. OA6 has a strongly unimodal distribution with maximum weight in spit 4. Variations in weight with depth of deposit may indicate the presence of chronologically separate occupations, or cultivation or other disturbances may have displaced some large artefacts vertically.

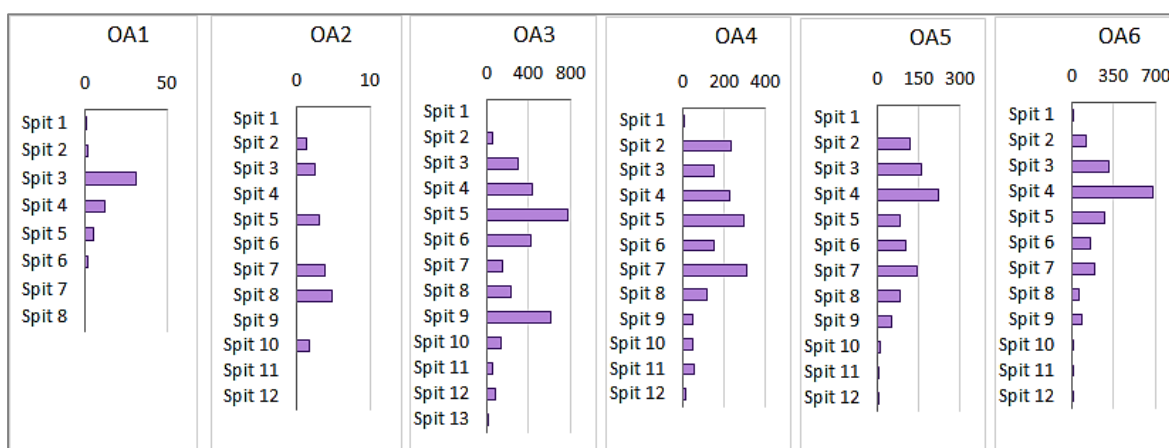


Figure 29: Vertical distribution of objects by weight in excavation areas.

### 6.11.2 MATERIAL TYPES WITH DEPTH OF DEPOSIT

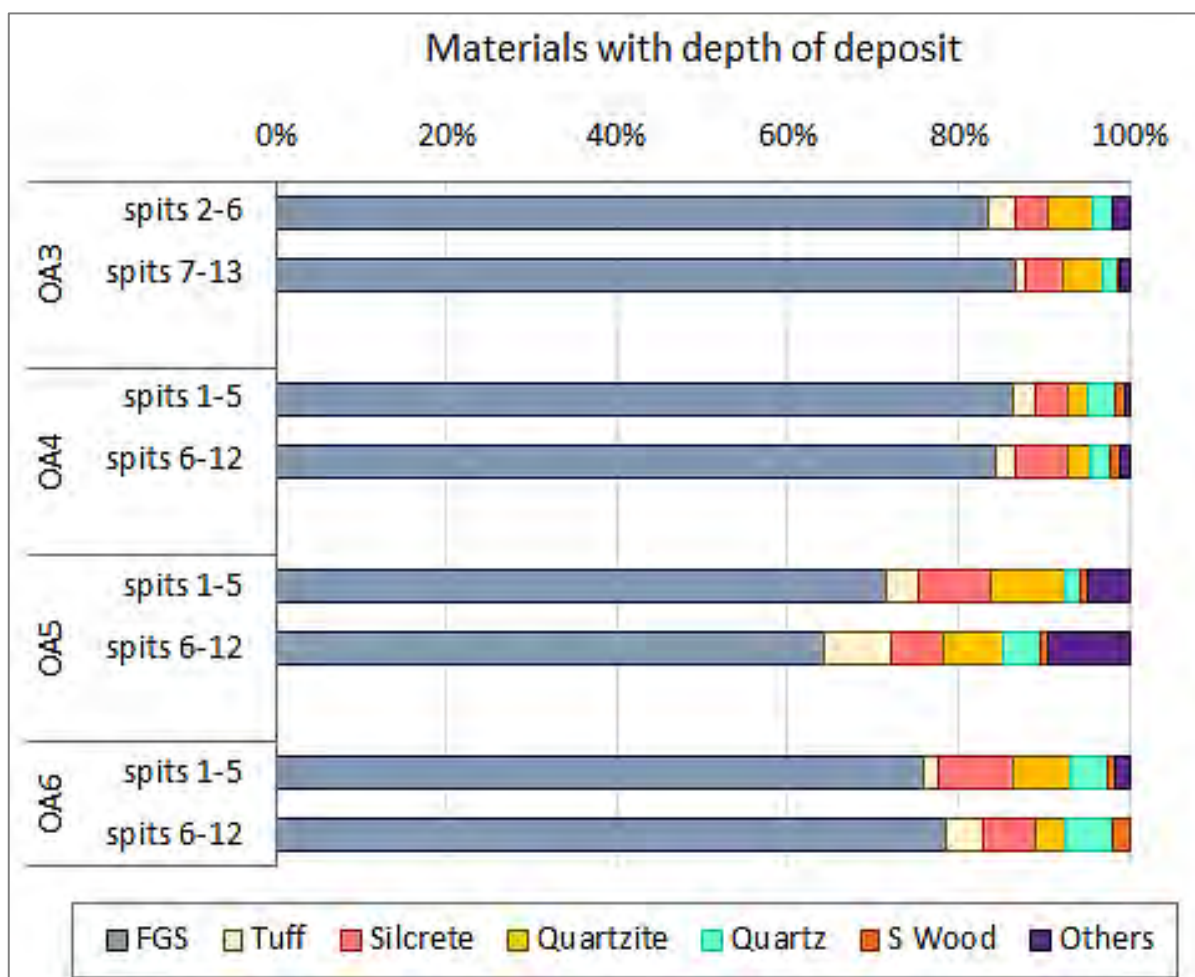
The larger excavation areas show only minor variation in materials with depth of deposit (Table 16, Figure 30). FGS is strongly dominant in the upper and lower deposits in each of the larger excavation areas. The proportions of FGS vary by only 2-3% between the upper and lower deposits, except in OA5 where FGS is less



frequent (by 7%) in the deeper deposit than in the upper deposit. But even this variation could have arisen by random chance (chi-squared=1.26, df=1, p=.262).

**Table 16: Materials with depth of deposit in larger excavation areas, summary spits.**

Area	Spit Summary	FGS	Tuff	Silcrete	Quartzite	Quartz	S Wood	Others	Total
OA3	Spits 2-6	302	12	14	18	9		7	362
	Spits 7-13	401	6	20	21	9		5	462
OA4	Spits 1-5	214	7	9	6	8	3	1	248
	Spits 6-12	260	7	19	8	7	4	3	308
OA5	Spits 1-5	75	4	9	9	2	1	5	105
	Spits 6-12	74	9	7	8	5	1	11	115
OA6	Spits 1-5	173	4	20	15	10	2	4	228
	Spits 6-12	128	7	10	6	9	3		163



**Figure 30: Materials with depth of deposit, summary spits, by % frequency.** OA1 and OA2 not included due to small sample size.

### 6.11.3 TYPES OF OBJECTS WITH DEPTH OF DEPOSIT

The larger excavation areas show only minor variation in the proportions of general categories of objects with depth of deposit (Table 17 and Figure 30). In OA3 heat shatters are a little more frequent in the deeper deposits than in upper deposits (44% vs 35%, chi-squared=6.95, df=1, p=.008). Heat shatters also appear to be a little more frequent in the deeper deposits than in the upper deposits at OA5 (20% vs 12%), but the latter trend could have been due to random chance (OA5 chi-squared=2.33, df=1, p=.127). The proportions of heat shatters in OA4 and OA6 do not vary substantially with depth of deposit.

Table 17: General categories with depth of deposit in larger excavation areas, summary spits.

Area	Spit summary	Artefact	Remnant flaked	Heat shatter	Broken piece	Manuport	Total
OA3	spits 2-6	152	20	127	53	10	362
	spits 7-13	187	17	204	46	8	462
OA4	spits 1-5	98	35	82	33		248
	spits 6-12	138	27	93	49	1	308
OA5	spits 1-5	67	9	13	16		105
	spits 6-12	68	12	23	12		115
OA6	spits 1-5	115	17	46	47	3	228
	spits 6-12	85	9	33	35	1	163

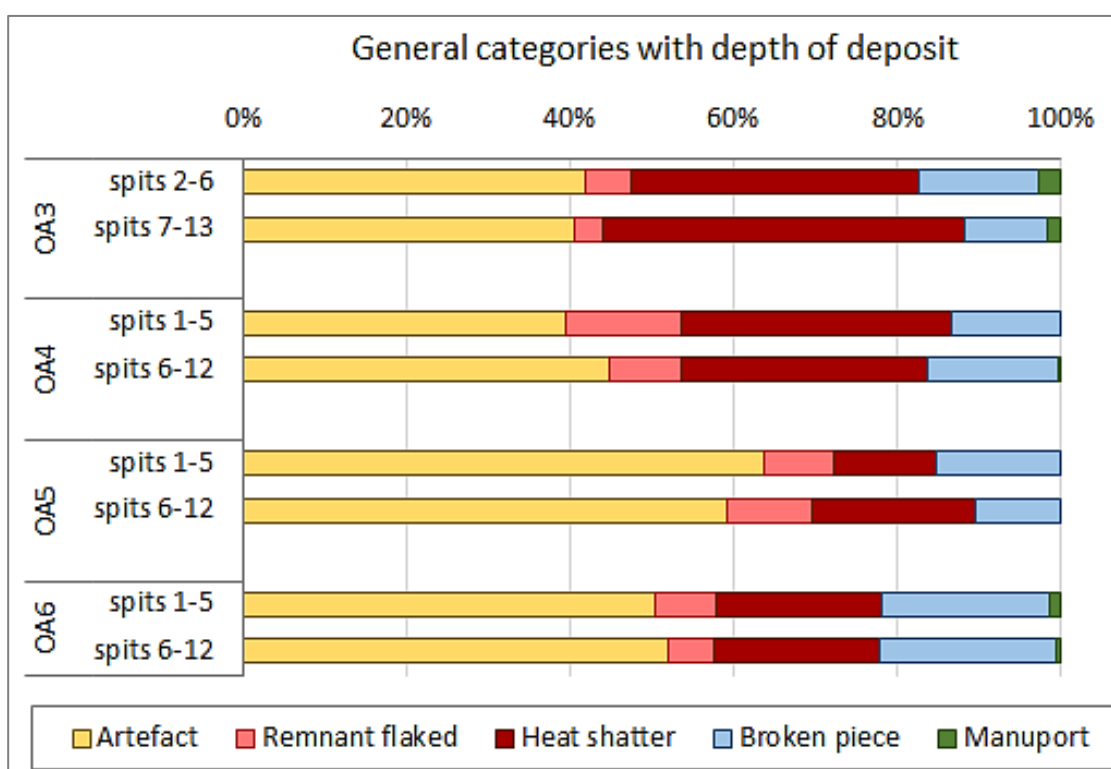


Figure 31: General categories with depth of deposit, summary spits, by % frequency. OA1 and OA2 not included due to small sample sizes.



Modified artefacts are not frequent in the assemblage, so data regarding their vertical distribution in all excavation areas is combined here (Table 18). Most types of modified artefacts occur at various depths, but the nine backed artefacts are restricted vertically, occurring in spit 2 to spit 6. This distribution may not have arisen by random chance (Fisher exact test  $p=.012$ ). In OA3 the six backed artefacts occur in spits 3 to 6 while most of the heat shatter in nearby pit 18 occurs in spits 8 to 10, below the backed artefacts. All three cores showing bifacial and/or asymmetric flaking also occur in these upper spits.

Overall, however, there is only limited evidence to suggest the presence of a chronologically meaningful vertical distribution (backed artefacts, bifacial and/or asymmetric cores, bi-modal weight distributions, heat shatters in OA3).

**Table 18: Modified artefacts with depth of deposit, all excavation areas combined.**

Spit	Hammer-stone	Backed artefact	Retouched artefact	Possible use-wear	Core	Bipolar core	Bipolar artefact
Spit 1					1		
Spit 2		1	1		1		
Spit 3		3	5		4		1
Spit 4		2	7	4	4		2
Spit 5		2	4		4		
Spit 6		1		3	4		1
Spit 7			4		1		
Spit 8			2		2		
Spit 9	1		4		4		1
Spit 10							1
Spit 11						1	1
Spit 12					1		
Spit 13							

## 6.12 COMPARISON WITH OTHER SITES

### 6.12.1 COMPARATIVE STUDIES

Several archaeological excavations have been carried out in the greater Nowra area but these are mostly testing and few reports on open area (salvage) excavations are available. A large flaking (knapping) concentration has been excavated at 126 Taylors Lane Cambewarra, located c.2 km north-west of the current site (Apex Archaeology 2024) (Figure 32). That assemblage derives from a single activity associated with the production of backed artefacts. It differs from the current assemblage which derives from many small-scale activities, probably carried out at different times. Excavations have also been carried out near the Shoalhaven River, for the Nowra Bridge project, c.2.7 km south of the current site (KNC 2020). Excavations were carried out at Bomaderry rock shelter (Lampert and Steele 1993),

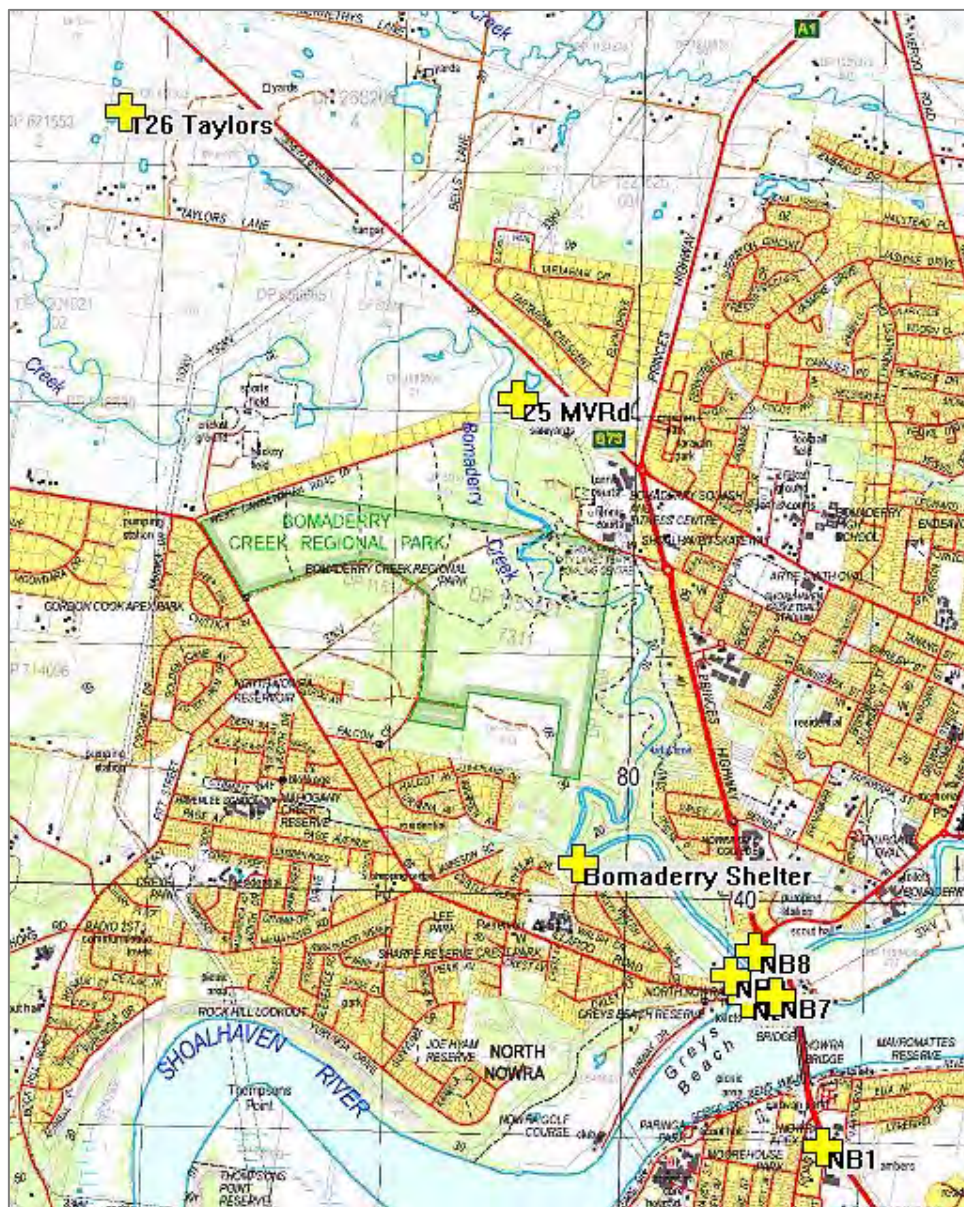


c.2 km south of the current site. The last of these excavations identified change through time in the use of materials and stone technology.

### **6.12.2 EXTENT OF EXCAVATION AND ARTEFACT DENSITY**

Individual excavation areas in this comparative analysis are limited in extent, covering only 9 m<sup>2</sup> to 31 m<sup>2</sup> (Table 19). It should be noted that some smaller excavation areas yield only low counts, or reveal highly disturbed deposits (e.g. OA1 and OA2 of the current study; NB1, NB7 and NB9 of the Nowra Bridge project). Further excavations at the latter locations were abandoned, so the current data describes only those sites/areas with higher numbers of objects in relatively less disturbed deposits. Hence, the data is biased towards locations which may have been occupied more intensively, for longer spans of time, or in the case of Bomaderry rock shelter, the objects were spatially confined into a smaller area.

Compared with other nearby excavations, the current excavations at 25 Moss Vale Road reveal relatively low maximum densities, and relatively low average densities (Table 19, Figure 33). MNI estimates are available only for 25 Moss Vale Road and 126 Taylors Lane. These estimates also indicate lower average densities at 25 Moss Vale Road.



**Figure 32: Locations of 126 Taylors Lane, 25 Moss Vale Road, Bomaderry Creek rock shelter and Nowra Bridge sites.** Base map Berry 1:25,000 scale topographic map sheet, sourced from Memory Map.

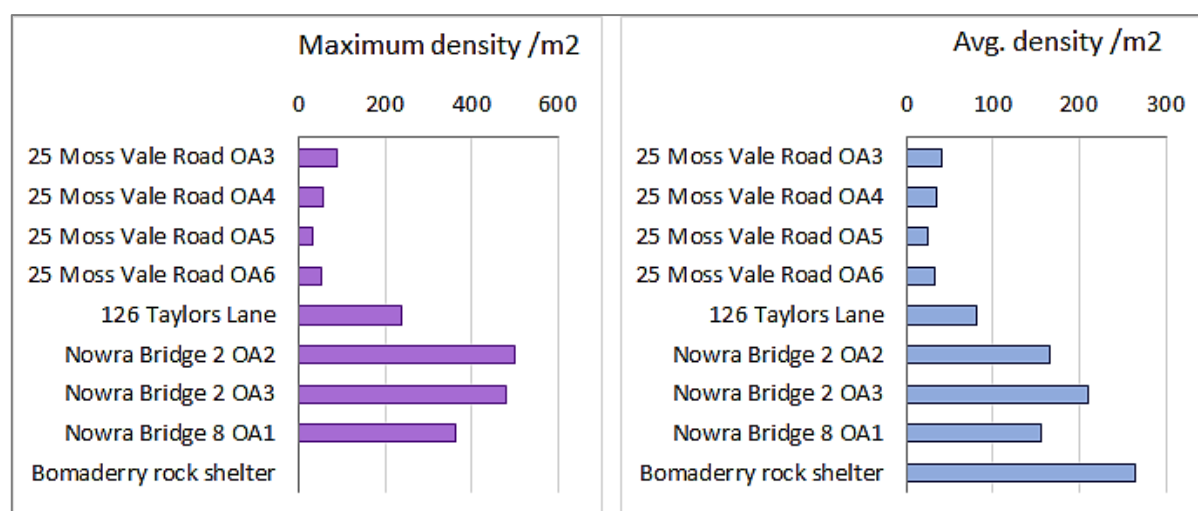
The highest average densities are associated with the Shoalhaven River and lower reaches of Bomaderry Creek, which is a primary resource zone under the model proposed by Clarke and Kuskie (2006) (see section 5.1). High densities of objects at those sites are consistent with repeated occupation of base camps.

The current site at 25 Moss Vale Road is associated with Bomaderry Creek, which is a major stream (at least 5<sup>th</sup> order), and c.2.7 km upstream from the Shoalhaven River. This location is a ‘secondary resource zone’ under the Clarke and Kuskie (2006) model. Lower densities of objects, but continuous distributions along the lower slope sampled by OA3 to OA6, are consistent with repeated occupation (see section 5.1).

**Table 19: Comparative analysis – Extent of excavations and total objects.**

Site and area	Extent m <sup>2</sup>	Count	Maximum density	Avg. density objects /m <sup>2</sup>	MNI	Avg. density MNI /m <sup>2</sup>
25 Moss Vale Road OA3	22	882	88	40.1	210	9.5
25 Moss Vale Road OA4	16	567	57	35.4	124	7.8
25 Moss Vale Road OA5	9	224	32	24.9	76	8.4
25 Moss Vale Road OA6	12	401	53	33.4	123	10.3
126 Taylors Lane	27	2,202	238	81.6	830+50	32.6
Nowra Bridge 2 OA2	25	4,157	501	166.3	-	
Nowra Bridge 2 OA3	17	3,569	482	209.9	-	
Nowra Bridge 8 OA1	31	4,843	363	156.2	-	
Bomaderry rock shelter	c.10.5	2,784	-	c.265.1	-	

*Note to Table 19. Counts include object from test or Phase 1 excavations.*



**Figure 33: Maximum and average densities in comparative samples.**

### 6.12.3 TYPES OF OBJECTS AND FLAKING TECHNOLOGY

Most of the assemblages in this comparative analysis include objects which are not flaked artefacts; data not being available for Bomaderry rock shelter. At 25 Moss Vale Road, artefacts make up 41% to 62% of objects at the four larger excavation areas. The proportion at the knapping concentration at 126 Taylors Lane is higher, at 74%. However, at the Nowra Bridge sites very low proportions of objects were identified as flaked artefacts (KNC 2020); flaked artefacts making up only 3% to 12% of objects. The term ‘angular fragment’ was not defined by KNC (2020) but Holdaway and Stern (2004) use the term “... to describe flaking debris lacking features diagnostic of deliberate conchoidal or wedging fracture ...”. If this definition is applied to the Nowra Bridge assemblages, then it could be assumed that all angular fragments are flaked artefacts, which seems unlikely given the flawed nature of the



material and the likelihood that at least some objects may have been broken by heat.

**Table 20: Comparative analysis – artefacts and other objects.**

Site and area	Total objects	Artefacts	Angular fragments, heat shatters, broken pieces, manuports	% Artefacts of total	MNI artefacts	% MNI artefacts of total
25 Moss Vale Rd OA3	844	343	501	40.6	191	22.6
25 Moss Vale Rd OA4	560	239	321	42.7	119	21.3
25 Moss Vale Rd OA5	221	136	85	61.5	74	33.5
25 Moss Vale Rd OA6	393	201	192	51.1	118	30.0
Total 25 Moss Vale Rd	2,047	939	1,108	45.9	510	24.9
126 Taylors Lane	2,128	1,570	558	73.8	830	39.0
Nowra Bridge 2 OA2	4,126	315	3,811	7.6 ?	-	
Nowra Bridge 2 OA3	3,274	97	3,177	3.0 ?	-	
Nowra Bridge 8 OA1	4,742	543	4,199	11.5 ?	-	
Bomaderry rock shelter	2,784	-	-	-	-	-

*Note to Table 20. Counts do not include objects from test or Phase 1 excavations.*

Backed artefacts were deliberately shaped to certain sizes or forms, perhaps to fit into previously made hafts, encode social information (group identity) as well as being used to perform a variety of functional tasks (e.g. Munt et al. 2023; Robertson et al. 2009; Way et al. 2023). Backed artefacts also act as a rough chronological marker, with most on the South Coast probably made between c.4,000 cal BP and 1,700 cal BP (Apex Archaeology 2024) during the backed artefact proliferation phase (Hiscock 2008).

In this context the proportions of backed artefacts, and other retouched artefacts, in assemblages are notable. At the knapping concentration at 126 Taylors Lane, a large number of backed artefacts were made and these greatly outnumber other retouched artefacts (

Table 21). This knapping concentration likely falls within the backed artefact proliferation phase between c.4,000 and 1,700 cal BP. Backed artefacts also outnumber other retouched artefacts at Nowra Bridge site 2 OA1 and OA2, and perhaps also at Bomaderry rock shelter (

Table 21, Figure 34). However, at 25 Moss Vale Road the reverse is the case, with other retouched artefacts outnumbering backed artefacts. This is also the case at Nowra Bridge 8 OA1. The site at 25 Moss Vale Road may not have been favoured for occupation during the backed artefact proliferation, and/or it may have differed

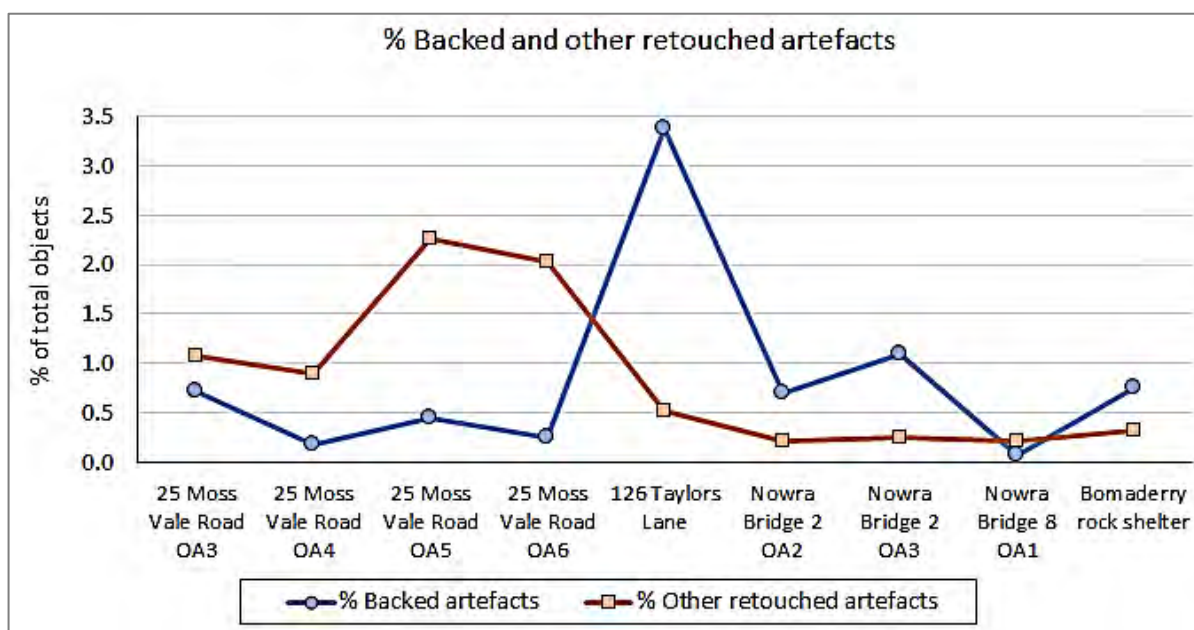


functionally, e.g. a place where people processed FGS nodules as well as carrying out other activities.

**Table 21: Comparative analysis – Backed artefacts.**

Site and area	Total objects	Backed artefacts	% Backed artefacts	Other retouched artefacts	% Other retouched artefacts
25 Moss Vale Road OA3	844	6	0.7	9	1.1
25 Moss Vale Road OA4	560	1	0.2	5	0.9
25 Moss Vale Road OA5	221	1	0.5	5	2.3
25 Moss Vale Road OA6	393	1	0.3	8	2.0
Total 25 Moss Vale Rd	2,047	9	0.4	27	1.3
126 Taylors Lane	2,128	72	3.4	11	0.5
Nowra Bridge 2 OA2	4,126	29	0.7	9	0.2
Nowra Bridge 2 OA3	3,274	36	1.1	8	0.2
Nowra Bridge 8 OA1	4,742	3	0.1	10	0.2
Bomaderry rock shelter	2,784	21	0.8	9	0.3

*Note to Table 21. Counts do not include objects from test or Phase 1 excavations.*



**Figure 34: 27% frequency of Backed artefacts and other retouched artefacts in comparative samples.**

Core body (what the object was before it was flaked as a core) was not recorded for the Nowra Bridge sites nor Bomaderry rock shelter. At both 25 Moss Vale Road and 126 Taylors Lane most cores have indeterminate bodies, due to extensive reduction or breakage having removed evidence of the original object. However, nodules were



flaked at both sites (Table 22) and unmodified nodules are present at 25 Moss Vale Road.

**Table 22: Comparative analysis – Core types (bodies).**

Core bodies (types)	25 Moss Vale Rd	126 Taylors Lane
Nodule or weathered piece	5	2
Pebble	2	
Flaw piece		3
Flake		2
Indeterminate	21	15
<b>Total cores</b>	<b>28</b>	<b>22</b>

Cores showing unifacial flaking are most frequent at these two sites (Table 23). Cores with asymmetric flaking are more frequent at 126 Taylors Lane than at 25 Moss Vale Road. Asymmetric flaking was sometimes used to produce flake blanks for backing, but it is apparent that at 126 Taylors Lane flake blanks were also produced (predominantly so) by unifacial flaking.

Core flaking patterns were not systematically recorded for the Nowra Bridge sites nor Bomaderry rock shelter (56 of 69 cores) but bipolar cores are more frequent at those sites (Nowra Bridge 25 of 110 cores, Bomaderry rock shelter 56 of 69 cores) than at 25 Moss Vale Road or 126 Taylors Lane. Regionally, bipolar flaking was used more often during the last 2,000 years (Apex Archaeology 2024; Boot 1994; Lampert and Steele 1993) especially to flake quartz pebbles and small cores. Bipolar flaking has also been linked to long-term occupations (long duration, increased sedentism, Hiscock 1996). The paucity of bipolar artefacts at 25 Moss Vale Road or 126 Taylors Lane suggests limited occupation during the last 2,000 years or so, residentially mobile occupation, and a focus on flaking larger nodules rather than small pebbles.

**Table 23: Comparative analysis – Core flaking patterns.**

Flaking pattern	25 Moss Vale Rd	126 Taylors Lane	Nowra Bridge	Bomaderry Rock Shelter
Unifacial	23	11		
Unifacial & bifacial		1		
Bifacial	1	2		
Bifacial or asymmetric	1			
Asymmetric	1	3		
Asymmetric & unifacial		2		
Bipolar	1	2	25	56
Indeterminate	1	1		
Unknown			85	13
<b>Total cores</b>	<b>28</b>	<b>22</b>	<b>110</b>	<b>69</b>

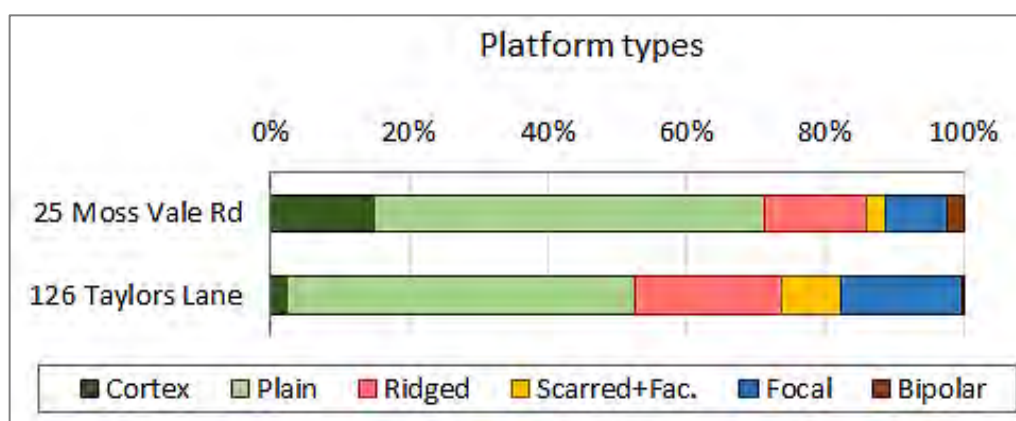
Platforms on unretouched flakes and proximal broken flakes more than 10 mm in size were recorded, in a comparable manner, for the assemblages from 25 Moss



Vale Road and 126 Taylors Lane (Table 24). The assemblage from 25 Moss Vale Road has higher proportions of cortical and plain platforms combined (71% vs 53%, Figure 35), indicating more unifacial flaking at 25 Moss Vale Road. The assemblage from 126 Taylors Lane has higher proportions of ridged, scarred and faceted platforms combined (30% vs 18%), indicating more core rotation and increased use of bifacial and/or asymmetric flaking.

**Table 24: Comparative analysis – Platforms on unretouched flakes and proximal broken flakes.**

Site	Cortex	Plain	Ridged	Scarred	Faceted	Focal	Bipolar	Total classified
25 Moss Vale Rd	35	131	34	6	1	20	6	<b>233</b>
126 Taylors Lane	6	132	56	17	5	46	1	263



**Figure 35: Platform types on unretouched flakes and proximal broken flakes at 25 Moss Vale Road and 126 Taylors Lane, by % frequency.**

Dorsal platform angles on complete flakes also indicate variation in flaking between 25 Moss Vale Road and 126 Taylors Lane, with the former site having a higher proportion of low-angle platforms (55% less than 70°, vs 37% less than 70°). Variation between the two assemblages is unlikely due to random chance ( $z=2.612$ ,  $p=.009$ ).

**Table 25: Comparative analysis – Dorsal platform angle on unretouched complete flakes.**

Site	<50	50-59	60-69	70-79	80-89	90-116	Total	Average angle
25 Moss Vale Rd	14	14	20	18	18	4	<b>88</b>	<b>65</b>
126 Taylors Lane	4	8	32	43	26	6	<b>119</b>	<b>72</b>

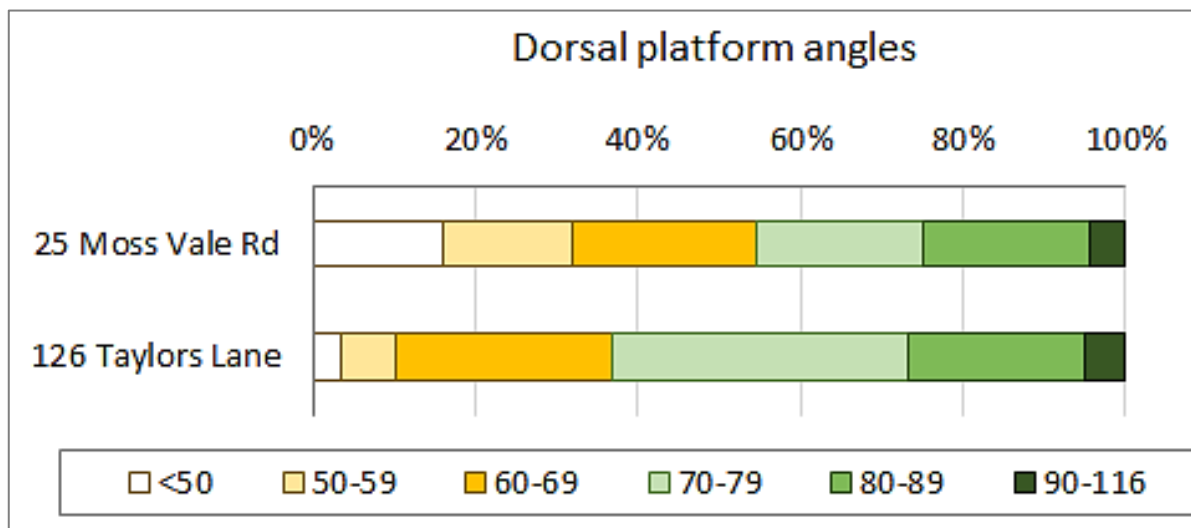


Figure 36: Dorsal platform angles on unretouched complete flakes from 25 Moss Vale Road and 126 Taylors Lane, by % frequency.

The assemblage from 25 Moss Vale Road tends to have higher platform depth (the distance across the platform from the ventral to the dorsal face) than the assemblage from 126 Taylors Lane (average platform depth 4.4 mm vs 2.8 mm respectively, Table 26, Figure 37). The difference between the assemblages is unlikely due to random chance ( $z=-5.060$ ,  $p<.001$ ).

Table 26: Comparative analysis – Platform depth (mm) on unretouched complete flakes.

Site	Platform depth (mm)					Total	Average
	1-1.5	2-2.5	3-3.5	4-4.5	5+		
25 Moss Vale Rd	9	15	19	10	33	86	4.4
126 Taylors Lane	33	43	21	15	10	122	2.8

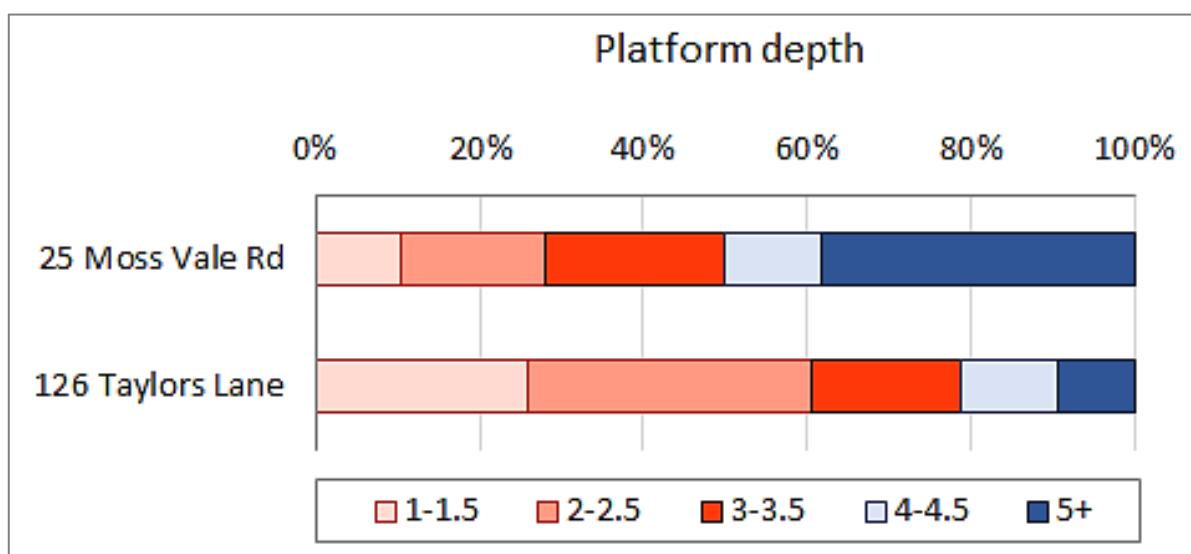


Figure 37: Platform depth on unretouched complete flakes from 25 Moss Vale Road and 126 Taylors Lane, by % frequency.

During flaking dorsal platform angle and platform depth can be combined to produce flakes of certain shapes or sizes. Higher platform angles combined with low platform depth tend to result in flakes which are relatively long compared to width and have more useable edge for their weight (mass or quantity of stone which is used up by the flake). Flakes with deeper platforms tend to be wider in shape and heavier for their size, using up relatively more stone (Figure 38, Lin et al. 2013). The differences in dorsal platform angle and platform depth between the assemblages from 25 Moss Vale Road and 126 Taylors Lane can be interpreted in this context.

At 25 Moss Vale Road flakes were probably struck from cores and large implements to prepare cores, to produce flakes of varying shapes, sizes and thickness for use as tools, and to resharpen implements. At 126 Taylors Lane much of the knapping sought to produce flakes of regular shapes and sizes, suitable for making backed artefacts.

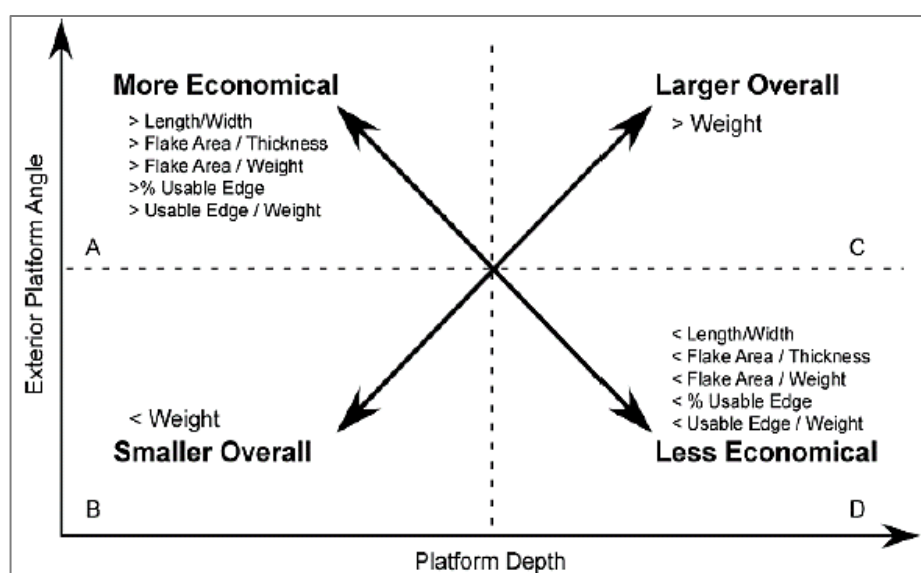


Figure 38: Model relating dorsal (exterior) platform angle and platform depth to shape and size of flakes. From Lin et al. 2013



## 7.0 RESEARCH QUESTIONS

The research design for the salvage excavations posed several research questions which are addressed here. The main thrust of the questions was to compare the results of the salvage excavations to interpretation based on the test excavations.

### 7.1 INTERPRETATIONS FROM THE TEST EXCAVATION

The test excavation report (Austral Archaeology 2022) includes the following observations and interpretations:

- The overall pattern of distribution is one of a low density but relatively consistent scatter of four to 12 objects/m<sup>2</sup> distant from Bomaderry Creek, which increased to 16-32 objects/m<sup>2</sup> closer to the creek (Austral Archaeology 2022:49).
- Test pit 10, 24, 25 and 26 together form a 1m<sup>2</sup> area of higher than average density suggesting the presence of a denser stone working location, although it was noted that multiple material types are present (i.e. the objects did not derive from a single focused flaking activity) (Austral Archaeology 2022:49).
- While some disturbance has occurred to the deposits, cultural objects retain a degree of spatial patterning related to the processes of discard. This patterning is evident at a larger landscape scale with higher densities of objects occurring closer to the creek and lower densities occurring further away. Patterning is also evident at a smaller scale with higher density loci interspersed with background scatter (Austral Archaeology 2022:64).
- The assemblage demonstrates a high degree of fragmentation, possibly due to post-discard fragmentation but more likely due to the poor quality of stone materials, or to materials carried to the site near the end of their useful sizes (Austral Archaeology 2022:64).
- The wide range of materials but limited technological categories is notable. The assemblage appears to be one of expedience rather than specialisation, with most complete artefacts being small and exhibiting a low level of preparation. A high flake to core ratio indicates that cores were removed for use elsewhere. Overall, it appears that the site was used for transitory occupation as opposed to being a base camp for lengthy periods (Austral Archaeology 2022:64).

### 7.2 QUESTION 1: ARTEFACT CONCENTRATIONS

- Can the extent of artefact concentrations observed from the initial test excavations be better refined?

The salvage excavations expanded six test pits with increased counts. Two of those locations (expanded as OA1 and OA2) reveal only low densities of objects. Expanded



excavation at the other four test pits (OA3, OA4, OA5 and OA6) reveal low to moderate densities, with only one high density pit containing 88 objects. Most of the objects in the high density pit are heat shatters, not flaked artefacts.

The salvage excavations across the lower slope, within 100 m of Bomaderry Creek (OA3, OA4, OA5 and OA6), indicate a continuous, low to moderate density scatter of artefacts (Figure 16) and a low to moderate density scatter of heat shattered cultural (Figure 18).

### 7.3 QUESTIONS 2 AND 3: ARTEFACT DENSITY

- How does the artefact density during the salvage program compare to the testing program? Has a greater volume of excavation yielded similar or different results in terms of characterising the site?

The test excavation found lower densities of objects more distant from Bomaderry Creek, and higher densities closer to the creek. The salvage excavations confirm this general result.

The average density from testing away from Bomaderry Creek is 5.8 objects/m<sup>2</sup>, whereas the average density in the two small salvage areas in this zone intercepts a lower average density of 3.6 objects/m<sup>2</sup> (bottom of Table 27).

**Table 27: Comparison of densities of objects from testing and salvage excavations.**

Lower slope test pits	9	10,24-26	11	22	23	27	28	29	-	Overall average
Objects from testing	0	38	3	7	0	4	8	0	-	-
Predicted testing density	0	38	12	28	0	16	32	0	-	15.8
Salvage excavation	-	OA3	-	OA4	-	OA5	OA6	-	-	-
Salvage avg density	-	40.1	-	35.4	-	25.0	33.4	-	-	35.2
Mid slope test pits	12	13	14	15	16	18	19	20	21	Overall average
Objects from testing	1	4	3	0	0	0	1	1	3	-
Predicted testing density	4	16	12	0	0	0	4	4	12	5.8
Salvage excavation	-	OA2	-	-	-	-	-	-	OA1	-
Salvage avg density	-	2.6	-	-	-	-	-	-	4.6	3.6

The average density from testing on the lower slope landform closer to Bomaderry Creek is 16 objects/m<sup>2</sup>, whereas the average density in the four salvage areas in this zone intercepts a higher average density of 35 objects/m<sup>2</sup> (top of Table 27). Within the individual excavation areas, the average densities in OA3 and OA6 are close to the average densities predicted by their respective test pits. In OA4 and OA5 the average densities in the salvage are higher than the densities predicted by the test pits.



Additionally, none of the test pits predicted the presence of high densities of objects, exceeding 75 objects in a single 1m<sup>2</sup>. Only one such high density pit is present in the salvage: pit 18 of OA3 has 88 objects, mostly heat shatters.

- What is the variation in density of cultural material across this area; can individual knapping floors or functional processes be identified?

High density knapping concentrations are not identified by the salvage excavations; the single high density pit in the salvage excavations has a concentration of heat shatter, and only a low density of flaked artefacts.

Within OA3 densities of objects range between 14 and 88 objects, a variation of 74 objects. Less variation occurs in the other area excavations: OA4 has a variation of 38 objects, OA5 has a variation of 20 objects, and OA6 has a variation of 28 objects.

Overall, the densities in the salvage excavations are similar to those encountered by the test excavation, but higher density loci are not interspersed with background scatter.

#### **7.4 QUESTION 4: NATURE OF SITE USE**

- Does the additional artefactual material contribute/alter the existing analysis of the nature of this site?

The salvage excavation confirms a high rate of fragmentation of stone objects. The test excavation suggests some fragmentation occurred after artefacts were discarded, but the authors considered it more likely due to poor quality of stone materials, or to materials carried to the site near the end of their useful sizes (Austral Archaeology 2022:64). Current analysis suggests that some fragmentation is due to the flawed nature of the FGS materials, but breakage by heat has been substantial. Heat fracturing could have been due to concentrated burning (e.g. camp fires resulting in increased counts of heat shatters) as well as landscape burning (low density scatters of heat shatters).

Some stone materials were carried to the site as unmodified weathered nodules, implements and cores in various stages of flaking. Cortex (including weathered surfaces) are present on one-quarter of FGS objects, one-fifth of tuff, and more than half the quartzite and quartz objects. Only silcrete has a lower proportion of 11% cortical objects.

All four of the larger excavation areas across the lower slope landform have multiple types of materials indicating that multiple activities were carried out in each location. This possibility is noted by the test excavation in relation to test pits 10/24/25/26 (Austral Archaeology 2022:49) (now OA3).



The test excavation also notes that the assemblage appears to be one of expedience rather than specialisation (Austral Archaeology 2022:64). This conclusion is supported by the current analysis which finds that unifacial flaking was the predominant technique, with a tendency to produce flakes with deep platforms, struck from cores or implements with relatively low platform angles. Nine backed artefacts were recovered but the assemblage demonstrates little evidence of backed artefact production; the backed artefacts were probably made elsewhere and carried to the site.

It is highly likely that some cores were removed for use on other sites. At least one core (a silcrete bipolar core) was carried to the site, but there is no evidence that this core was flaked on the site. More than half the cores in the salvage assemblage are broken and it is possible that some were so fragmented after discard that they are no longer recognisable as cores.

The test excavation suggests that the site was used for transitory occupation as opposed to being a base camp for lengthy periods (Austral Archaeology 2022:64). The paucity of bipolar artefacts supports this interpretation; bipolar flaking being a marker of increased residency, as well as a chronological indicator. The continuous spread of objects across the lower slope landform indicates that many activities were carried out, with spatial placement sometimes overlapping the locations of previous activities. If occupation was transitory there would have been many visits.

## **7.5 QUESTION 5: COMPARISON WITH OTHER SITES**

- Are the results of the salvage program consistent with other sites excavated within the locality and region? How can the results be compared and/or contrasted?

Several open area excavations, with individual areas of similar size to those in the current salvage, have been excavated in the local area (see section 6.12). The assemblages from these sites can be considered in terms of a regional occupation model proposed by Clarke and Kuskie (2006) (see section 5.0). Under this model the Shoalhaven River forms a primary resource zone, able to support substantial occupation. Bomaderry Creek in the vicinity of 25 Moss Vale Road would form a secondary resource zone, able to support occupation, but less so than the primary resource zone.

Excavations at the Nowra Bridge sites associated with the Shoalhaven River (KNC 2020) have higher densities of objects than at 25 Moss Vale Road, as expected by the model proposed by Clarke and Kuskie (2006). The Nowra Bridge sites also tend to have more backed artefacts and more bipolar artefacts than 25 Moss Vale Road. Most of the Nowra Bridge sites were probably occupied during the backed artefact proliferation phase (Hiscock 2008), between c.4,000 cal BP and 1,700 cal BP (Apex Archaeology 2024). Bipolar flakes were not reported separately for the Nowra Bridge



sites, but nearly one quarter of cores are classified as bipolar, indicating more use of bipolar flaking than at 25 Moss Vale Road. Increased bipolar flaking has variously been linked to focus of knapping small pebbles, occupation after the backed artefact proliferation phase (less than c.1,700 cal BP, Apex Archaeology 2024), and to more sedentary residential occupation (Hiscock 1996). The Nowra Bridge sites may have been occupied in a substantial manner at various times over the last few thousand years, perhaps longer.

In contrast, the lower slope landform at 25 Moss Vale Road has few backed artefacts, which are outnumbered by other retouched artefacts (variously with notched retouch, steep scraper-like retouch and small scalar retouch). Few bipolar artefacts are present. The site has a deep deposit, with limited evidence for chronological stratification. The nine backed artefacts, and three cores showing bifacial and/or asymmetric flaking, occur in the upper half of the deposit, while other retouched artefacts occur in both the upper and deeper deposits, and a hammerstone occurs in deeper deposit. The weights of objects also vary with depth of deposit, with increased weights in the upper (spit 5) and deeper (spit 9) deposit in OA3. A similar kind of distribution is also present in OA5. Increased heat shatters also occur in the deeper deposit at OA3. It is possible – but not certain – that 25 Moss Vale Road may have a long history of visitation during which people procured and carried in nodules of FGS materials, implements and cores, and carried out other small scale flaking and discard activities in addition to processing FGS nodules for use elsewhere.

Details of flaking technology at 25 Moss Vale Road are compared to the knapping concentration at 126 Taylors Lane. This comparison highlights the importance of expedient unifacial flaking at 25 Moss Vale Road, compared to knapping at 126 Taylors Lane which produced flakes suitable for production of backed artefacts.

## **7.6 LITHIC RESULTS SUMMARY**

The archaeological salvage excavation undertaken within the site at 25 Moss Vale Road, Bomaderry identified a low density but relatively consistent artefact deposit, with higher densities identified in proximity to Bomaderry Creek.

The results of the salvage excavation suggest that the site was used for transitory occupation rather than as a base camp utilised for lengthy periods, which is in contrast to the results of other excavations in the Shoalhaven area. This is supported by the relatively lower densities of artefacts identified within the current study area in comparison to the higher densities at sites within primary resource zones as proposed by Clarke and Kuskie (2005).

The assemblage contained few backed artefacts and rather comprised a highly fragmentary assemblage, likely due to the flawed nature of the materials utilised, although heat breakage was noted to be substantial. The assemblage is considered



to represent one of expedience rather than specialisation in terms of artefact production.

The flakes and cores that were recovered at 25 Moss Vale Road suggest that initial reduction and core preparation was likely to have been undertaken, rather than systematic production of flakes of regular shapes and sizes for backed artefact manufacture such as that seen at 126 Taylors Lane.

In general, the assemblage recovered from 25 Moss Vale Road is considered to represent a low density artefact deposit from intermittent use of the area.



## 8.0 SIGNIFICANCE ASSESSMENT

In order to make decisions regarding heritage items, it is necessary to understand the significance of the item and explore the values which underpin the assessment of significance. Where development of an item or in the vicinity of an item is proposed, the level of significance associated with an item may influence the degree of impact which is considered acceptable.

### 8.1 ASSESSMENT CRITERIA

Archaeological significance is assessed based on the archaeological or scientific values of an area. These values can be defined as the importance of the area relating to several criteria. Criteria used for determining the archaeological significance of an area are as follows:

- **Research potential:** Can the site contribute to an understanding of the area/region and/or the state's natural and cultural history? Is the site able to provide information that no other site or resource is able to do?
- **Representativeness:** is the site representative of this type of site? Is there variability both inside and outside the study area? Are similar site types conserved?
- **Rarity:** is the subject area a rare site type? Does it contain rare archaeological material or demonstrate cultural activities that no other site can demonstrate? Is this type of site in danger of being lost?
- **Integrity/Intactness:** Has the site been subject to significant disturbance? Is the site likely to contain deposits which may possess intact stratigraphy?

Further, an assessment of the grade of significance is made, based on how well the item fulfils the assessment criteria. The Heritage Branch of the Department of Planning (now the Heritage Division of the Office of Environment and Heritage) 2009 guideline *Assessing Significance for Historical Archaeological Sites and 'Relics'* defines the grading of significance as follows:

Table 28. Grading of significance, from Heritage Branch 2009.

Grading	Justification
Exceptional	Rare or outstanding item of local or State significance. High degree of intactness. Item can be interpreted relatively easily.
High	High degree of original fabric. Demonstrates a key element of the item's significance. Alternations do not detract from significance.
Moderate	Altered or modified elements. Elements with little heritage value but which contribute to the overall significance of the item.
Little	Alterations detract from significance. Difficult to interpret.
Intrusive	Damaging to the item's heritage significance.



Whilst this was developed for the assessment of significance of historical items, the criteria are applicable to Aboriginal significance assessments as well.

## **8.2 ARCHAEOLOGICAL SIGNIFICANCE ASSESSMENT**

The assemblage recovered from 25 Moss Vale Road is of low research potential and/or educational value due to the highly fractured and poor quality of the raw materials utilised. The assemblage is considered to have limited research potential due to the limited range and types of artefacts identified.

The site is considered to have low representativeness given the relatively low densities and poor qualities of the artefacts recovered. This type of site is not considered to be rare in the Shoalhaven area.

The site is generally intact although evidence of disturbance was noted in the salvage pits in the form of plough or 'ripper' lines visible in the soil matrix to a depth of approximately 30cm. Below this depth, the site was generally considered to be intact with minimal disturbance; although localised disturbance was noted in some areas.

Overall, the assemblage recovered from excavations within 25 Moss Vale Road, Bomaderry was assessed as having low to moderate archaeological and scientific significance.

It is acknowledged that all Aboriginal cultural sites are considered highly significant to Aboriginal people.

## **8.3 SITE MANAGEMENT**

It is noted that the proposed works on the site have been amended somewhat from the originally proposed site layout, but the proposed works are not significantly different to that originally proposed. The proposal is considered to have a similar impact on the cultural values of the site to the original proposal.

The site is likely to contain further archaeological deposits, given the results of the salvage excavations, but no further archaeological work is recommended for the site as the salvage excavations are considered appropriate as mitigation in this instance.

The Unexpected Finds Protocol in the ACHMP (Section 4.0 of the ACHMP) should be enacted during works if unexpected finds are identified.

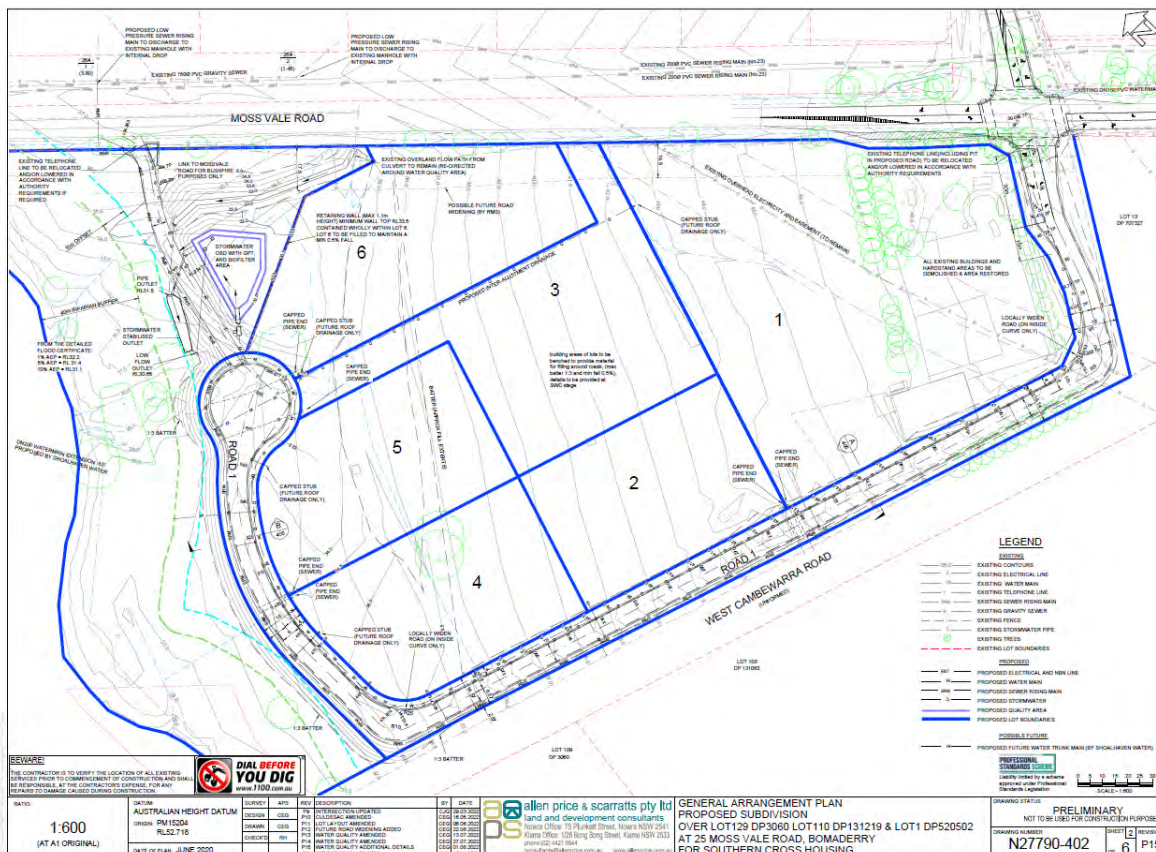


Figure 39: Original site layout as approved by DA SF10851.

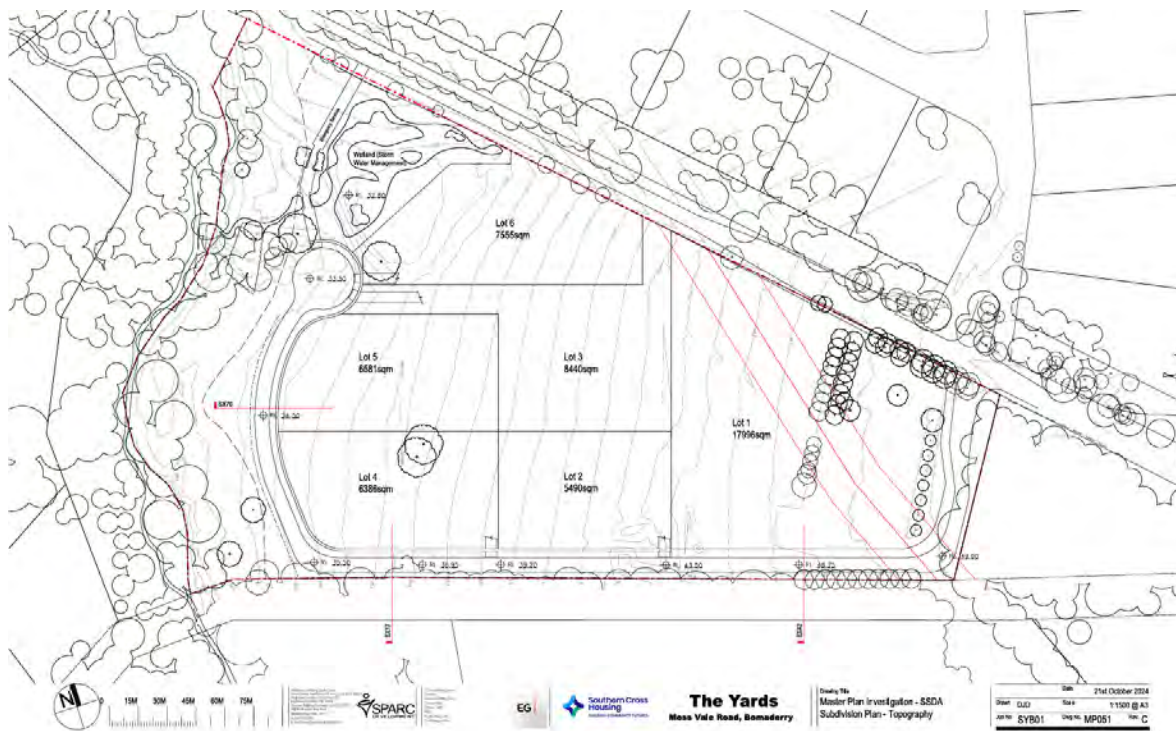


Figure 40: Site Masterplan for SSD



## 9.0 AHIP CONDITIONS

AHIP 5144 was issued on 15 August 2023 to permit salvage excavations and harm to certain Aboriginal objects through the proposed works. The AHIP is valid for five years from the date of issue. As the AHIP is a secure document, it cannot be attached to this report.

### 9.1 SALVAGE EXCAVATIONS

In accordance with Condition 11 of the AHIP, salvage excavations within AHIMS sites #52-5-0996 and 52-5-0997 have been completed. The results of these excavations are detailed in this report.

### 9.2 MINIMISATION OF HARM

In accordance with Condition 10 of the AHIP, no ground disturbing works within AHIMS site #52-5-0998 have been undertaken as this site is proposed for conservation. Vegetation management has yet to be completed for the project.

### 9.3 ABORIGINAL SITE IMPACT RECORDING FORMS

Aboriginal Site Impact Recording Forms (ASIRFs) have been submitted to the AHIMS registrar to update the results of the salvage excavations completed within AHIMS sites #52-5-0996 and 52-5-0997. These are attached to this report as Appendix B.

No update to the site card for site #52-5-0998 has been made as no impact has occurred to this site as part of this project, due to its designation as a conservation area.

### 9.4 MANAGEMENT OF EXCAVATED ARTEFACTS

It is proposed to rebury artefacts on site once civil works have been completed. This will be in accordance with Condition 21 of the AHIP and will meet Requirement 26 of the *Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW*.

The reburial location will be as per the reburial map in the Aboriginal Cultural Heritage Management Plan (ACHMP) for the site.

Artefacts excavated during the salvage excavation are currently held at Apex Archaeology's offices as per AHIP Condition 18.

### 9.5 SALVAGE REPORT

As per the Notification and Reporting Conditions of AHIP #5144, Condition 17, a copy of the Aboriginal Archaeological Salvage Excavation Report will be provided to each RAP within 14 days of the report being submitted to Heritage NSW.

A copy will also be provided to Heritage NSW and the AHIMS registrar for inclusion on the AHIMS database.



## 10.0 CONCLUSIONS

Based on the results of the salvage works, the following conclusions can be drawn:

- From the results of archaeological testing conducted in 2022 by Austral Archaeology, six test pits within the current study warranted salvage excavation (Austral TPs 10/24/25/26 [inclusive], 21, 13, 22, 27 and 28).
- A number of 2,047 cultural lithics were recovered from the salvage excavation across six Open Areas (OAs).
- Excavation focused on the recovery of a substantial, high density scatter of FGS material at which small-scale flaking, discard and breakage activities occurred.
- While there may have been some spatial displacement by modern agricultural activities, the continuous spread of objects of diverse material types suggests numerous repeat visits, with activities carried out in many locations, usually overlapping spatially.
- Activities within the study area included processing of locally-occurring nodules as cores for use elsewhere, as well as some core flaking, tool maintenance, and discard of backed artefacts which were made elsewhere.
- Based on the analysis of backed artefacts within the wider region, backed artefacts from Cambewarra are relatively short and tend to be wider, this could be due to either the use of flawed FGS material or alternatively due to people making particular sizes to be hafted into pre-made composite implements such as knives or spears.
- FGS was the predominant material among excavated artefacts, comprising 82% of all cultural lithics recovered. Small numbers of other materials including silcrete, quartz, quartzite, silicified tuff, silicified wood and unidentified materials made up 18% of the assemblage.
- Vertical distribution of artefacts shows that most objects occur in Spits 5 and 6 (OA3, OA6), however, artefacts were distributed between Spits 3 to 8 at OA4 and Spits 3 to 7 at OA5.
- FGS is strongly dominant in the upper and lower deposits in each of the larger excavation areas. The proportions of FGS vary by only 2-3% between the upper and lower deposits, except in OA5 where FGS is less frequent (by 7%) in the deeper deposit than in the upper deposit  
The average density data of sites within the region suggests that the artefact concentration at the study area is within the range of variation shown by sites associated with the Shoalhaven River, although it is noted to be at the lower end of densities.

Overall, this salvage report provides details of the salvage excavations undertaken at 25 Moss Vale Road, Bomaderry, on behalf of Southern Cross Community Housing; and no further archaeological work is recommended for the site prior to development commencing.



## 11.0 REFERENCES

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## **APPENDIX A: ARTEFACT CATALOGUE**



22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments	
1	OA1	1	3	1	1	FGS	absent	18.5	15.5-20	0.6	Platform artefact	proximal BF	fac								new damage
2	OA1	1	3	1		FGS	absent	21	20.5-25	2.7	FF/FP artefact	medial									
3	OA1	1	3	1		FGS	absent	11	10.5-15	0.2	FF/FP artefact	medial									
4	OA1	1	3	1		FGS	absent	33	30.5-35	10.0	FF/FP artefact	medial						13.5			rough stone dorsal
5	OA1	1	3	1		FGS	about half	30	25.5-30	14.3	broken piece										werthrd grey-brown surfaces, red breaks
6	OA1	1	4	1		FGS	absent	24	20.5-25	1.2	Remnant flaked	distal									grey wethrd dorsal
7	OA1	1	5	1		FGS	about half	11	10.5-15	0.2	FF/FP artefact	flaked piece									
8	OA1	2	4	1		FGS	absent	32	30.5-35	7.1	FF/FP artefact	medial									
9	OA1	2	5	1		FGS	absent	11	10.5-15	0.2	FF/FP artefact	medial									
10	OA1	3	2	1		FGS	absent	21.5	20.5-25	1.4	Remnant flaked	dorsal									
11	OA1	3	4	1		FGS	about half	18	15.5-20	1.6	Remnant flaked										fragment only, retouched edge or platform
12	OA1	3	5	1		FGS	absent	25	20.5-25	1.7	Remnant flaked										
13	OA1	4	1	1		FGS	a third or less	17.5	15.5-20	0.4	FF/FP artefact	distal									
14	OA1	4	3	1		FGS	a third or less	24	20.5-25	1.8	FF/FP artefact	distal									
15	OA1	4	3	1		FGS	absent	22	20.5-25	1.2	Remnant flaked										
16	OA1	4	3	1		Quartz	three quarters or more	18.5	15.5-20	1.0	not artefact	broken pebble									

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
17	OA1	4	4	1	1	FGS	absent	24	20.5-25	2.1	Platform artefact	flake	plain			19	18	4		new fine damage left lateral
18	OA1	4	5	1		FGS	absent	42.5	40.5-45	2.8	FF/FP artefact	distal								HS break part dorsal, patch tiny crystals
19	OA1	4	5	1	1	FGS	absent	16	15.5-20	0.2	Platform artefact	flake	plain			16	5	2		elongate, small platform almost focal
20	OA1	4	6	1	1	FGS	absent	17.5	15.5-20	1.6	Platform artefact	proximal BF	scarred							
21	OA1	5	4	1		FGS	absent	13.5	10.5-15	0.3	FF/FP artefact	medial								edge damage
22	OA2	1	5	1		FGS	absent	29	25.5-30	2.8	FF/FP artefact	distal								plunging, minor heat shatter damage
23	OA2	1	5	1	1	FGS	a third or less	11.5	10.5-15	0.2	Platform artefact	proximal BF	crushed							
24	OA2	2	2	1		FGS	absent	15	10.5-15	1.0	Remnant flaked									partial negative scar
26	OA2	2	8	1		FGS	absent	18	15.5-20	1.9	FF/FP artefact	flaked piece								partial negative scars, poss bipolar core
27	OA2	2	10	1		FGS	absent	29	25.5-30	1.8	Heat shatter	RF?								new break - 2 pcs refit
28	OA2	3	2	1	1	FGS	a third or less	14	10.5-15	0.4	Platform artefact	proximal BF	ridge+weathered							potlid scars ventral and dorsal
31	OA2	3	3	1	1	FGS	three quarters or more	22.5	20.5-25	2.5	Manuport	nodule								like distal but isn't flaked
34	OA2	5	7	1		FGS	absent	31	30.5-35	3.9	FF/FP artefact	medial								
35	OA2	5	8	1	0.5	FGS	about half	24	20.5-25	3.0	Platform artefact	CSBF left								remnant curvng distl surfac on

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments	
																					plat - from flake body
852	OA3			1		Tuff	a third or less	19.5	15.5-20	2.1	Remnant flaked	ventral									clean-up
853	OA3			1		FGS	about half	22.5	20.5-25	0.9	Heat shatter										clean-up
854	OA3			1		FGS	absent	25	20.5-25	1.4	Heat shatter										clean-up
855	OA3			1		FGS	absent	14.5	10.5-15	0.3	Heat shatter										clean-up
856	OA3			1		FGS	absent	12	10.5-15	0.3	broken piece										clean-up
36	OA3	1		1	1	FGS	absent	20.5	20.5-25	1.1	Platform artefact	proximal BF	plain	2.5	76						
37	OA3	1		1	1	FGS	absent	16	15.5-20	0.3	Platform artefact	proximal BF	fac focal	2	94						
38	OA3	1		1		FGS	absent	15	10.5-15	0.5	FF/FP artefact	medial									
39	OA3	1		1		FGS	absent	25	20.5-25	1.4	Heat shatter										
40	OA3	1		1		FGS	absent	15.5	15.5-20	0.4	Heat shatter	RF?									
41	OA3	1		1		FGS	absent	11	10.5-15	0.3	Heat shatter										
42	OA3	1		1		FGS	absent	12	10.5-15	0.5	Heat shatter										
43	OA3	1		1		FGS	absent	9.5	05.5-10	0.1	Heat shatter										
44	OA3	1		1		FGS	absent	28	25.5-30	7.1	broken piece										blocky
45	OA3	1		1		FGS	absent	27	25.5-30	9.0	broken piece										blocky
46	OA3	1		1		FGS	about half	27	25.5-30	4.3	FF/FP artefact	flaked piece									

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments	
47	OA3	2	2	1	0.5	FGS	a third or less	31	30.5-35	1.9	Platform artefact	CSBF left	(weathered)								
48	OA3	2	2	1		FGS	absent	12	10.5-15	0.3	FF/FP artefact	flaked piece									
49	OA3	2	3	1		FGS	absent	36	35.5-40	9.3	Heat shatter	RF?									
50	OA3	2	3	1		FGS	absent	32.5	30.5-35	6.8	Heat shatter										
51	OA3	2	3	1		FGS	about half	31	30.5-35	4.9	Heat shatter										
52	OA3	2	3	1		FGS	three quarters or more	26	25.5-30	5.3	Heat shatter										
53	OA3	2	3	1		FGS	three quarters or more	19.5	15.5-20	0.9	Heat shatter										
54	OA3	2	4	1	1	FGS	absent	16	15.5-20	0.9	Platform artefact	flake	plain	6	40	9.5	15	2.5		minor new damage distal	
55	OA3	2	4	1		FGS	absent	10	05.5-10	0.1	FF/FP artefact	medial									
56	OA3	2	4	1		FGS	absent	24	20.5-25	2.4	Remnant flaked	core frag								remnant asymmetric platform	
57	OA3	2	4	1		FGS	three quarters or more	17	15.5-20	0.8	broken piece										
58	OA3	2	5	1	1	FGS	absent	22	20.5-25	3.2	Platform artefact	proximal BF	plain	5						irregular ventral, same as dark brown in 59	
59	OA3	2	7	1	1	FGS	absent	32.5	30.5-35	5.3	Platform artefact	proximal BF	plain	9.5	60						
60	OA3	2	7	1	1	Quartzite	a third or less	38	35.5-40	7.0	Platform artefact	flake	weathered	8	56	25	28	6		hinge termination	
61	OA3	2	8	1	1	FGS	a third or less	41	40.5-45	9.0	Retouched artefact	flake	weathered	9	62	31	26.5	7		bendg scars & dmg right ltrl,	

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
																				irreg R/ & dmage lft ltrl
62	OA3	2	8	1	0.5	FGS	three quarters or more	36	35.5-40	20.1	Manuport broken	nodule broken								blocky angular nodule
63	OA3	2	8	1		FGS	about half	15	10.5-15	1.3	broken piece									
64	OA3	2	8	1		Quartz	absent	18	15.5-20	0.7	FF/FP artefact	flaked piece								
65	OA3	2	9	1	1	FGS	absent	26.5	25.5-30	3.7	Platform artefact	proximal BF	(ridge)	6	71	21.5		5.5		
66	OA3	2	9	1	1	FGS	absent	15	10.5-15	0.5	Platform artefact	proximal BF	irregular	4	80	14		1.5		
67	OA3	2	9	1		FGS	a third or less	33	30.5-35	10.8	broken piece									good quality
68	OA3	2	10	1		Quartzite	absent	35	30.5-35	3.9	FF/FP artefact	medial								
69	OA3	3	4	1	1	Quartz	three quarters or more	32	30.5-35	10.5	Bipolar artefact	flake	bipolar			29	21	11		oriented to remove end of pebble, but for 2 thin ends
70	OA3	3	4	1		FGS	about half	36	35.5-40	6.4	broken piece									new break - 3 pieces refit
71	OA3	3	4	1		FGS	absent	20.5	20.5-25	0.7	Heat shatter									
72	OA3	3	4	1		FGS	absent	20.5	20.5-25	1.0	broken piece	RF?								
73	OA3	3	4	1		FGS	absent	13.5	10.5-15	0.2	Heat shatter	RF?								
74	OA3	3	5	1		Quartz	absent	18	15.5-20	1.2	Remnant flaked	HS?								
75	OA3	3	7	1	0.5	FGS	absent	15	10.5-15	0.4	Platform artefact	CSBF mid								
76	OA3	3	7	1		FGS	absent	20.5	20.5-25	1.1	FF/FP artefact	medial								

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments	
77	OA3	3	7	1		FGS	absent	14	10.5-15	0.4	Remnant flaked										
78	OA3	3	7	1	1	Tuff	absent	18	15.5-20	0.4	Platform artefact	proximal BF	part crushed								
79	OA3	3	9	1	1	FGS	absent	13	10.5-15	0.4	Platform artefact	proximal BF	plain	1.5	78	12		2.5			
80	OA3	3	10	1		FGS	absent	22.5	20.5-25	0.7	Remnant flaked										
81	OA3	3	10	1		FGS	absent	14.5	10.5-15	0.4	Remnant flaked										
82	OA3	3	10	1		FGS	absent	15	10.5-15	1.1	Heat shatter										
83	OA3	3	10	1	0.5	Tuff	three quarters or more	36	35.5-40	8.0	FF/FP artefact	distal									plunging termination
84	OA3	3	10	1		Quartz	a third or less	16.5	15.5-20	1.3	broken piece										
85	OA3	3	11	1	1	FGS	absent	21.5	20.5-25	0.6	Platform artefact	proximal BF	ridge	3.5							
86	OA3	3	11	1		FGS	absent	15.5	15.5-20	0.2	FF/FP artefact	medial left									
87	OA3	3	11	1		Silcrete	absent	18.5	15.5-20	1.5	FF/FP artefact	medial									
88	OA3	3	11	1		FGS	about half	17	15.5-20	1.1	Heat shatter										
89	OA3	3	11	1		FGS	three quarters or more	10	05.5-10	0.1	Heat shatter										
90	OA3	3	12	1	1	FGS	a third or less	29.5	25.5-30	7.0	Platform artefact	proximal BF	weathered	8							heat shatter breaks ventral and dorsal
91	OA3	3	12	1		FGS	absent	21	20.5-25	1.7	Remnant flaked										refits to distal of 90, old break
92	OA3	3	12	1	1	FGS	absent	13	10.5-15	0.4	Platform artefact	flake	part crushed			11	10.5	3.5			removed/reset asymmetric platform

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
93	OA3	3	12	1		FGS	three quarters or more	12	10.5-15	0.2	FF/FP artefact	medial								
94	OA3	3	12	1		FGS	absent	11	10.5-15	0.2	Remnant flaked									
95	OA3	3	12	1		FGS	three quarters or more	11	10.5-15	0.2	Heat shatter									
96	OA3	3	12	1		FGS	absent	7.5	05.5-10	0.0	broken piece									
97	OA3	3	12	1		Quartzite	absent	20	15.5-20	1.2	FF/FP artefact	medial								
98	OA3	4	3	1		FGS	absent	20	15.5-20	3.0	Remnant flaked	platform								split along flaw, not HS, remnant uni platform
99	OA3	4	6	1		FGS	three quarters or more	27.5	25.5-30	13.2	Heat shatter									
100	OA3	4	8	1	0.5	Tuff	about half	38	35.5-40	11.9	Platform artefact	CSBF right	(cortex)	9	74	31.5		10		from tabular cobble
101	OA3	4	8	1		FGS	a third or less	43	40.5-45	8.3	Heat shatter									
102	OA3	4	9	1	0.5	Quartzite	three quarters or more	98	80.5-100	293.9	Hammer broken	cobble				(96)	50	39.5		pitted dmge 1 margin near tip, not at tip
103	OA3	4	9	1		FGS	absent	21	20.5-25	0.2	FF/FP artefact	medial				(20)	7	1.5		elongate
104	OA3	4	9	1	1	FGS	a third or less	32.5	30.5-35	8.4	Platform artefact	proximal BF	weathered		79					heat shatter break bulb
107	OA3	4	9.12	1		FGS	a third or less	55.5	55.5-60	33.7	broken piece									
105	OA3	4	10	1		Silcrete	absent	10	05.5-10	0.2	FF/FP artefact	distal								
106	OA3	4	10	1		FGS	three quarters or more	8	05.5-10	0.0	FF/FP artefact	distal								

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments	
108	OA3	4	12	1		FGS	absent	26	25.5-30	2.7	FF/FP artefact	medial									
109	OA3	4	12	1		FGS	about half	12	10.5-15	0.4	FF/FP artefact	RF									dorsal or core frag, but not heat shatter - split flaw
110	OA3	4	12	1		Quartzite	absent	44.5	40.5-45	7.1	FF/FP artefact	medial									rem plat off rough surface, slight lustre soapy
111	OA3	4	13	1	1	FGS	absent	10	05.5-10	0.2	Platform artefact	proximal BF									
112	OA3	4	13	1		FGS	absent	9.5	05.5-10	0.1	broken piece										
113	OA3	5	3	1		Silcrete	absent	25	20.5-25	4.2	FF/FP artefact	flaked piece									
114	OA3	5	3	1		FGS	absent	23	20.5-25	2.5	broken piece										
115	OA3	5	3	1		FGS	absent	13	10.5-15	0.4	Heat shatter										
116	OA3	5	4	1		FGS	absent	22.5	20.5-25	2.7	Remnant flaked	negative scar									
117	OA3	5	4	1		Tuff	three quarters or more	60.5	60.5-65	30.2	Heat shatter										
118	OA3	5	4	1		Tuff	absent	43	40.5-45	12.5	Heat shatter										
119	OA3	5	5	1	0.5	Quartzite	a third or less	32	30.5-35	7.7	Platform artefact	CSBF left	(cortex)	8	65						from curving cobble
120	OA3	5	8	1		FGS	absent	27	25.5-30	2.2	FF/FP artefact	distal									
121	OA3	5	8	1		FGS	absent	17.5	15.5-20	0.9	FF/FP artefact	medial									
122	OA3	5	8	1	0.5	FGS	three quarters or more	36.5	35.5-40	17.0	Manuport broken	flake?									poor quality stone, poss wide flake

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
123	OA3	5	8	1		FGS	absent	24	20.5-25	3.2	Heat shatter									
124	OA3	5	9	1		Quartz	absent	18	15.5-20	1.6	FF/FP artefact	flaked piece								
125	OA3	5	10	1	1	FGS	absent	16	15.5-20	0.3	Platform artefact	flake	plain	1.5	65	12.5	7	2		
126	OA3	5	10	1		FGS	absent	11.5	10.5-15	0.3	FF/FP artefact	medial								
127	OA3	6	3	1	0.5	Silcrete	absent	25	20.5-25	3.4	Platform artefact	CSBF right	(ridge)	4	59					
128	OA3	6	3	1	1	FGS	absent	20	15.5-20	0.7	Platform artefact	flake	plain	2	66	16	11	3		max 18.5 length from PFA to dstl tip
129	OA3	6	3	1		FGS	absent	32.5	30.5-35	7.6	broken piece									
130	OA3	6	3	1		FGS	absent	13.5	10.5-15	0.3	Heat shatter	RF?								
131	OA3	6	3	1	0.5	FGS	three quarters or more	51.5	50.5-55	79.2	Manuport broken	HS nodule						31		
132	OA3	6	3	1		FGS	absent	43.5	40.5-45	15.8	Heat shatter									
133	OA3	6	4	1		Quartzite	absent	14	10.5-15	0.7	FF/FP artefact	medial								
134	OA3	6	4	1	1	FGS	absent	12.5	10.5-15	0.1	Platform artefact	flake	focal	1	80	12	6.5	1		
135	OA3	6	4	1		FGS	absent	11	10.5-15	0.1	FF/FP artefact	medial								
136	OA3	6	4	1		FGS	absent	13	10.5-15	0.2	FF/FP artefact	distal								
137	OA3	6	4	1		FGS	absent	25	20.5-25	2.5	Remnant flaked									
138	OA3	6	4	1		FGS	absent	28	25.5-30	3.2	Heat shatter	RF?								

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
139	OA3	6	4	1		FGS	absent	17.5	15.5-20	1.2	Heat shatter									
140	OA3	6	4	1		FGS	absent	16	15.5-20	0.4	Heat shatter									
141	OA3	6	4	1		FGS	absent	7	05.5-10	0.1	Heat shatter									
142	OA3	6	4	1	0.5	Others	three quarters or more	47.5	45.5-50	47.5	Manuport broken	nodule broken								new neg scar dark brown inside, crtex cream+fire blknd
143	OA3	6	5	1	1	FGS	absent	11.5	10.5-15	0.1	Backed artefact	distal				11	6.5	2		crescent BASI CL=10 MW=7 LMW=4
144	OA3	6	5	1	1	Quartzite	a third or less	33	30.5-35	7.0	Platform artefact	flake	cortex	7	80	29.5	26	5		CSBF/left but most of right lateral feathered
145	OA3	6	5	1		Quartz	absent	15	10.5-15	0.5	FF/FP artefact	flaked piece								
146	OA3	6	5	1	1	FGS	absent	19	15.5-20	0.5	Platform artefact	proximal BF	plain	1	78					
147	OA3	6	5	1		FGS	absent	17.5	15.5-20	0.5	Remnant flaked									
148	OA3	6	5	1		FGS	three quarters or more	25	20.5-25	3.4	Remnant flaked									remnant uni platform weathered surface
149	OA3	6	5	1	0.5	FGS	three quarters or more	34	30.5-35	10.5	Manuport broken	HS nodule?								
150	OA3	6	5	1		FGS	about half	11.5	10.5-15	0.1	Heat shatter									
151	OA3	6	5	1		Tuff	about half	29	25.5-30	1.9	Heat shatter									

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments	
152	OA3	6	6	1		Quartzite	absent	15	10.5-15	0.5	FF/FP artefact	medial									
153	OA3	6	6	1	1	Silcrete	absent	12	10.5-15	0.2	Platform artefact	proximal BF	plain	1.5		6		1			wide flake
154	OA3	6	6	1	1	FGS	absent	12.5	10.5-15	0.4	Platform artefact	proximal BF	crushed								
155	OA3	6	6	1		FGS	absent	15	10.5-15	0.4	FF/FP artefact	medial									heat shatter break
156	OA3	6	6	1		FGS	absent	12	10.5-15	0.2	FF/FP artefact	medial									
157	OA3	6	6	1		FGS	absent	10.5	10.5-15	0.2	broken piece	RF?									
158	OA3	6	6	2		FGS	a third or less	18.5	15.5-20	4.7	Heat shatter										
159	OA3	6	6	2		FGS	absent		05.5-10	0.2	Heat shatter										
160	OA3	6	6	1	0.5	FGS	three quarters or more	54.5	50.5-55	75.9	Manuport broken	nodule broken				(29.5)	50	27			>50 wide, tabular
161	OA3	6	7	1	1	FGS	absent	10.5	10.5-15	0.1	FF/FP artefact	distal	v heavily crushed								
162	OA3	6	8	1	1	FGS	absent	16	15.5-20	0.7	Platform artefact	proximal BF	crushed			14		1.5			wide flake
163	OA3	6	9	1		FGS	a third or less	16	15.5-20	1.2	broken piece										
164	OA3	6	10	1		FGS	absent	16	15.5-20	0.4	Heat shatter										
165	OA3	6	10	1		FGS	absent	11	10.5-15	0.2	Heat shatter										
166	OA3	6	11	1		Silcrete	absent	17	15.5-20	0.6	FF/FP artefact	medial									probably elongate if not broken
167	OA3	6	11	1		FGS	absent	10.5	10.5-15	0.2	Remnant flaked										

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments	
168	OA3	6	11	1		FGS	absent	11	10.5-15	0.3	FF/FP artefact	distal								hinge fragment	
169	OA3	6	11	1		FGS	absent	10.5	10.5-15	0.2	FF/FP artefact	medial									
170	OA3	6	11	1		FGS	absent	16	15.5-20	1.1	Heat shatter										
171	OA3	6	11	1		FGS	absent	11	10.5-15	0.2	Heat shatter	RF?									
172	OA3	6	11	1		FGS	absent	11	10.5-15	0.3	Heat shatter	RF?									
173	OA3	6	13	1	0.5	Others	a third or less	23	20.5-25	1.7	Platform artefact	CSBF right	(cortex)	6	72	22.5		2.5			
174	OA3	7	1	1		FGS	about half	15	10.5-15	1.1	not artefact	weathered HS									
175	OA3	7	2	1		FGS	absent	12.5	10.5-15	0.4	FF/FP artefact	medial									
176	OA3	7	3	1		FGS	absent	47	45.5-50	52.0	Heat shatter					44	29	25			
177	OA3	7	3	1		FGS	absent	24	20.5-25	3.6	Heat shatter										
178	OA3	7	3	1		FGS	absent	27	25.5-30	1.8	Heat shatter										
179	OA3	7	4	1		FGS	absent	25	20.5-25	5.0	Heat shatter	RF?									
180	OA3	7	4	1		FGS	absent	11	10.5-15	0.3	broken piece	medial?									
181	OA3	7	4	1	0.5	Silcrete	absent	26	25.5-30	3.5	Platform artefact	CSBF right	(plain)	2	62	24	4.5				
182	OA3	7	5	1	1	Tuff	absent	31	30.5-35	5.7	Platform artefact	proximal BF	plain	3.5	83	20	26.5	7.5		step termination, plat bit irregular	
183	OA3	7	5	1	1	FGS	absent	15	10.5-15	0.3	Platform artefact	proximal BF	ridge	3	71						
184	OA3	7	5	1		FGS	absent	27.5	25.5-30	3.6	Heat shatter	RF?									

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
185	OA3	7	5	1		FGS	absent	17	15.5-20	1.0	broken piece	RF?								
186	OA3	7	5	1		FGS	absent	15	10.5-15	0.3	Heat shatter									
187	OA3	7	5	1		Others	absent	13	10.5-15	0.2	broken piece									
188	OA3	7	6	1		FGS	absent	11.5	10.5-15	0.5	Remnant flaked									
189	OA3	7	6	1		FGS	absent	10	05.5-10	0.1	Heat shatter									
190	OA3	7	6	1		Quartz	three quarters or more	14.5	10.5-15	0.1	broken piece									
192	OA3	7	7	1	1	FGS	absent	26	25.5-30	2.6	Platform artefact	flake	plain	10	31	14.5	23	2.5		compressed bulb, rough surface dorsal
193	OA3	7	7	1	1	FGS	absent	11	10.5-15	0.2	Platform artefact	proximal BF	plain	2.5	58					potlid scar dorsal
194	OA3	7	7	1		FGS	absent	11.5	10.5-15	0.1	FF/FP artefact	medial								
195	OA3	7	7	1		FGS	absent	12	10.5-15	0.3	Remnant flaked	ventral?								
196	OA3	7	7	1		FGS	absent	12	10.5-15	0.3	FF/FP artefact	medial								
197	OA3	7	7	2		FGS	absent		05.5-10	0.3	broken piece									
198	OA3	7	8	1	1	Quartzite	a third or less	30	25.5-30	4.7	Platform artefact	proximal BF	cortex	3	68			4.5		bit worn/rounded around prox half
199	OA3	7	8	1	1	Quartz	absent	10	05.5-10	0.2	Platform artefact	proximal BF								
200	OA3	7	8	1		FGS	absent	13	10.5-15	0.3	FF/FP artefact	medial								
201	OA3	7	8	1		FGS	absent	22	20.5-25	2.2	Heat shatter									

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
202	OA3	7	8	1		FGS	absent	18	15.5-20	0.7	Heat shatter									
203	OA3	7	8	1		FGS	absent	31	30.5-35	3.5	Heat shatter	RF?								
204	OA3	7	9	1	1	FGS	absent	24	20.5-25	2.1	Retouched artefact	distal	removed			18	22	3		fine steep retouch prox & left lateral
205	OA3	7	9	1	1	FGS	absent	36	35.5-40	11.4	Retouched broken	proximal BF	ridge	8	73	29		8		scalr R/ lft latrl, dstl broke thn 2 steep PFA, RL brkn
206	OA3	7	9	1	0.5	FGS	absent	22	20.5-25	2.0	Retouched broken	medial								frag, uni scars & breaks less wethrd than ventral
207	OA3	7	9	1	1	Quartzite	absent	34	30.5-35	6.9	Platform artefact	flake	plain	4	62	25	23.5	9		
208	OA3	7	9	1	1	FGS	absent	22.5	20.5-25	1.5	Platform artefact	flake	plain	4.5	66	19	18	4		wide
209	OA3	7	9	1	1	FGS	absent	21	20.5-25	0.2	Platform artefact	proximal BF	plain	1.5						potlid scars ventral and dorsal
210	OA3	7	9	1	1	FGS	absent	12.5	10.5-15	0.1	Platform artefact	flake	plain	1.5		6.5	12	1.5		
211	OA3	7	9	1		FGS	absent	27	25.5-30	1.7	FF/FP artefact	medial								
212	OA3	7	9	1		FGS	absent	18	15.5-20	0.5	FF/FP artefact	distal								
213	OA3	7	9	1		FGS	three quarters or more	21	20.5-25	2.3	FF/FP artefact	distal								
214	OA3	7	9	1		FGS	absent	17.5	15.5-20	0.3	FF/FP artefact	medial								
215	OA3	7	9	1		FGS	absent	35.5	35.5-40	13.2	Remnant flaked									new(?) dmage along RF edge

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
216	OA3	7	9	1		FGS	absent	14.5	10.5-15	0.5	Remnant flaked									
217	OA3	7	9	1		FGS	absent	23.5	20.5-25	1.7	Heat shatter									
218	OA3	7	9	1		FGS	absent	27.5	25.5-30	4.2	Remnant flaked									
219	OA3	7	9	1		FGS	absent	14	10.5-15	1.5	broken piece	RF?								
220	OA3	7	9	1		FGS	absent	19.5	15.5-20	1.7	broken piece	flaked?								
221	OA3	7	9	1	0.5	FGS	three quarters or more	65	60.5-65	105.2	Manuport broken	nodule broken				(37.5)	40	39		
222	OA3	7	9	1	0.5	FGS	three quarters or more	39.5	35.5-40	11.9	Manuport broken	nodule broken								smooth breaks
223	OA3	7	9	1	0.5	FGS	three quarters or more	30	25.5-30	7.8	Manuport broken	HS & broken nodule								heat shatter break, also smoother break
224	OA3	7	9	1	0.5	FGS	three quarters or more	21	20.5-25	4.2	Manuport broken	HS nodule								heat shatter break
225	OA3	7	10	1		Silcrete	absent	19	15.5-20	0.7	Remnant flaked									
226	OA3	7	10	1	0.5	FGS	absent	12.5	10.5-15	0.6	Platform artefact	CSBF right	(plain)	3	74					
227	OA3	7	10	1		FGS	absent	14	10.5-15	0.5	Heat shatter	RF?								
228	OA3	7	10	1		FGS	absent	9	05.5-10	0.1	Heat shatter	RF?								
229	OA3	7	10	1		FGS	absent	16.5	15.5-20	0.6	Heat shatter									
230	OA3	7	10	1		FGS	about half	30.5	30.5-35	11.6	broken piece									

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
231	OA3	7	10	1		FGS	three quarters or more	18	15.5-20	1.1	Heat shatter									
232	OA3	7	10	1		FGS	a third or less	13	10.5-15	0.7	Heat shatter									
233	OA3	7	11	1	1	FGS	about half	11	10.5-15	0.2	Platform artefact	proximal BF	plain	4	38					no bulb - bending flake
234	OA3	7	11	1		FGS	three quarters or more	19	15.5-20	0.9	Heat shatter									
235	OA3	7	11	1		FGS	three quarters or more	10.5	10.5-15	0.4	Heat shatter									
236	OA3	7	11	1		FGS	about half	11.5	10.5-15	0.4	Heat shatter									
237	OA3	7	11	1		FGS	a third or less	35	30.5-35	6.7	broken piece									
238	OA3	7	13	1		FGS	absent	21	20.5-25	0.8	broken piece									
239	OA3	7	13	1		Ferricrete	absent	16	15.5-20	0.8	not artefact									
240	OA3	8	3	1		FGS	a third or less	36	35.5-40	9.3	FF/FP artefact	medial						12.5		broke longitudinally through poor quality stone
241	OA3	8	3	1		FGS	absent	9	05.5-10	0.1	Heat shatter									
287	OA3	8	4	1	0.5	FGS	absent	40	35.5-40	19.9	Retouched broken	medial	removed			(37)		14		washed, >27 wide, ltd small R/ near distal break
288	OA3	8	4	1		Quartzite	a third or less	15	10.5-15	0.4	broken piece									
289	OA3	8	4	1	1	FGS	absent	16.5	15.5-20	0.4	Platform artefact	flake	plain	2	75	10.5	13.5	2		

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments	
290	OA3	8	4	1		FGS	absent	27	25.5-30	3.2	broken piece									irregular fracture, some steps	
291	OA3	8	4	1		FGS	absent	16.5	15.5-20	1.1	broken piece										
292	OA3	8	4	1		FGS	absent	13.5	10.5-15	0.7	broken piece	RF?									
293	OA3	8	4	1		FGS	about half	27	25.5-30	5.4	Heat shatter										
294	OA3	8	4	1		FGS	about half	15	10.5-15	1.0	Heat shatter										
295	OA3	8	4	1		FGS	absent	11	10.5-15	0.2	Heat shatter										
296	OA3	8	4	1		FGS	absent	8	05.5-10	0.0	Heat shatter										
297	OA3	8	4	1	0.5	FGS	three quarters or more	26	25.5-30	5.0	Manuport broken	nodule broken						8		1 surface more weathered than other	
251	OA3	8	5	1	1	FGS	absent	9.5	05.5-10	0.1	Platform artefact	proximal BF									
252	OA3	8	5	1	1	FGS	absent	14.5	10.5-15	0.5	Platform artefact	proximal BF	crushed								
253	OA3	8	5	1		FGS	absent	14	10.5-15	0.4	FF/FP artefact	medial									
254	OA3	8	5	1		FGS	absent	38	35.5-40	32.8	Heat shatter										
255	OA3	8	5	1		FGS	three quarters or more	14	10.5-15	0.2	broken piece										
1902	OA3	8	5	1		FGS	a third or less	67	65.5-70	155.6	Heat shatter					50	50	36		prov A1, new piece refits	
1903	OA3	8	5	1		Others	absent	83	80.5-100	75.3	broken piece					58	55	13		prov A2, bit irregular shape	
256	OA3	8	6	1		FGS	absent	12.5	10.5-15	0.5	broken piece										

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments	
257	OA3	8	6	2		FGS	absent	9	05.5-10	0.2	Heat shatter										
258	OA3	8	7	1	1	FGS	absent	13.5	10.5-15	0.5	Platform artefact	proximal BF	plain	4.5							
259	OA3	8	7	1		FGS	absent	18	15.5-20	0.9	FF/FP artefact	medial								heat shatter break part dorsal	
260	OA3	8	7	1		FGS	absent	19	15.5-20	1.3	Heat shatter										
261	OA3	8	7	1		FGS	a third or less	11	10.5-15	0.2	broken piece	medial?									
262	OA3	8	8	1	1	Silcrete	absent	12.5	10.5-15	0.4	Platform artefact	proximal BF	ridge	4	61						
263	OA3	8	8	1	0.5	Quartz	a third or less	28	25.5-30	3.3	Platform artefact	CSBF right	(plain)	6.5	89	25.5		11		refits to spit 10	
264	OA3	8	8	1		Quartz	three quarters or more	8.5	05.5-10	0.2	not artefact										
265	OA3	8	8	1		FGS	a third or less	45.5	45.5-50	25.8	Heat shatter										
266	OA3	8	8	1		FGS	a third or less	38	35.5-40	23.7	Heat shatter										
267	OA3	8	8	1		FGS	absent	17	15.5-20	1.5	Heat shatter										
268	OA3	8	8	1		FGS	absent	15	10.5-15	0.4	Heat shatter										
269	OA3	8	8	1		FGS	three quarters or more	12.5	10.5-15	0.2	Heat shatter										
270	OA3	8	8	1		FGS	absent	15	10.5-15	0.4	broken piece	flaked?									
271	OA3	8	9	1	0.5	FGS	absent	33.5	30.5-35	7.6	Retouched broken	distal				30.5		10		>20 wide, wide notch LL, small ntchs dstl, strght RLD	

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
272	OA3	8	9	1	1	FGS	a third or less	26	25.5-30	1.8	Platform artefact	proximal BF	plain	9						transverse split just below platform
273	OA3	8	9	1		FGS	absent	8	05.5-10	0.1	broken piece									
274	OA3	8	10	1	0.5	Quartz	absent	31	30.5-35	6.1	Platform artefact	CSBF left	(plain)	4.5	88	30		13		refits 263 - flake 29.5x26x12
275	OA3	8	10	1		Quartz	absent	9	05.5-10	0.2	FF/FP artefact	flaked piece								263/274/275 - 275 refits to ventral
276	OA3	8	10	1	1	FGS	absent	16.5	15.5-20	0.7	Bipolar artefact	proximal BF	bipolar							1 thin end
277	OA3	8	10	1	1	Quartzite	a third or less	13	10.5-15	0.2	Platform artefact	proximal BF	plain	2	67					
278	OA3	8	10	1		FGS	three quarters or more	15	10.5-15	0.2	broken piece									
279	OA3	8	10	1		FGS	absent	15	10.5-15	0.5	Heat shatter	RF?								
280	OA3	8	11	1		FGS	absent	22	20.5-25	1.4	Remnant flaked	prox ventral								
281	OA3	8	11	1	0.5	Quartz	absent	11	10.5-15	0.3	Platform artefact	CSBF right	(plain)	1.5	66	8		1.5		
282	OA3	8	12	1		FGS	absent	13	10.5-15	0.3	FF/FP artefact	medial								
283	OA3	8	12	1		FGS	absent	9	05.5-10	0.1	Heat shatter									
284	OA3	9	2	1		FGS	absent	23.5	20.5-25	2.7	Heat shatter									
285	OA3	9	3	1	0.5	Quartz	absent	20.5	20.5-25	1.3	Platform artefact	CSBF left	(plain)	3		16		6		curving dorsal - can't measure plat angle
286	OA3	9	3	1	0.5	FGS	absent	13	10.5-15	0.1	Platform artefact	proximal left	(plain)	1.5		13	4.5	2.5		elongate
242	OA3	9	4	1	0.5	FGS	a third or less	26.5	25.5-30	2.8	Platform artefact	CSBF left	(weathered)	6						

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments		
243	OA3	9	4	1		FGS	absent	17	15.5-20	0.4	FF/FP artefact	medial										
244	OA3	9	4	1		FGS	absent	17.5	15.5-20	1.7	Remnant flaked											
245	OA3	9	4	1		FGS	three quarters or more	35.5	35.5-40	13.6	broken piece	HS?										
246	OA3	9	4	1		FGS	absent	24	20.5-25	1.6	Heat shatter	RF?										
247	OA3	9	4	1		FGS	absent	20	15.5-20	1.3	Heat shatter	RF?										
248	OA3	9	4	1		FGS	absent	14	10.5-15	0.5	Heat shatter											
249	OA3	9	4	1		FGS	absent	11	10.5-15	0.3	Heat shatter											
250	OA3	9	4	1		FGS	absent	45	40.5-45	40.8	broken piece	HS breaks										
298	OA3	9	5	1	1	Tuff	absent	16	15.5-20	0.5	Platform artefact	flake	plain	2	67	10	12.5	3				
299	OA3	9	5	1	1	FGS	three quarters or more	14.5	10.5-15	0.5	Platform artefact	proximal BF	focal	2	53	11.5	11	2.5		skewed left, max length n/a		
300	OA3	9	5	1	0.5	FGS	absent	12	10.5-15	0.1	Platform artefact	CSBF left										
301	OA3	9	5	1		FGS	absent	14	10.5-15	0.8	broken piece	RF?										
302	OA3	9	5	1		FGS	absent	14	10.5-15	0.4	Heat shatter											
303	OA3	9	5	1		FGS	absent	12.5	10.5-15	0.2	Heat shatter											
304	OA3	9	5	1		FGS	three quarters or more	10	05.5-10	0.1	Heat shatter											
305	OA3	9	5	1		Sandstone	three quarters or more	18	15.5-20	0.8	not artefact							4				

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
306	OA3	9	6	1	0.5	Quartzite	about half	50	45.5-50	45.9	Manuport broken	cobble frag						45		flat cortex smoother than curving
307	OA3	9	6	1		FGS	absent	30	25.5-30	17.8	broken piece					25	24	20.5		blocky, 1 smoother surface
308	OA3	9	6	1		FGS	absent	37	35.5-40	11.7	Heat shatter									
309	OA3	9	6	1		FGS	absent	15.5	15.5-20	0.2	Heat shatter									
333	OA3	9	6.13	1		FGS	about half	27.5	25.5-30	2.8	Heat shatter	RF?								
334	OA3	9	6.13	1		FGS	absent	12	10.5-15	0.1	Heat shatter									
335	OA3	9	6.13	1		FGS	three quarters or more	10	05.5-10	0.6	broken piece									
310	OA3	9	7	1	1	FGS	absent	22.5	20.5-25	2.4	Platform artefact	proximal BF	plain							heat shatter break ventral at prox end
311	OA3	9	7	1		FGS	absent	14	10.5-15	0.7	FF/FP artefact	medial								
312	OA3	9	7	1		FGS	about half	25	20.5-25	3.4	broken piece									newer more pale break
313	OA3	9	7	1		FGS	absent	14.5	10.5-15	1.1	broken piece	RF?								
314	OA3	9	7	1		FGS	absent	10.5	10.5-15	0.3	broken piece	HS?								
315	OA3	9	8	1		FGS	absent	17	15.5-20	0.5	Heat shatter									
316	OA3	9	9	1	0.5	FGS	absent	21.5	20.5-25	2.3	Platform artefact	CSBF right	(irregular)	7	68					
317	OA3	9	9	1		FGS	absent	13.5	10.5-15	0.3	broken piece	RF?								
318	OA3	9	9	1		FGS	absent	13	10.5-15	0.2	Heat shatter	RF?								

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
319	OA3	9	9	1		FGS	absent	11	10.5-15	0.2	Heat shatter									
320	OA3	9	9	1		FGS	absent	14	10.5-15	0.2	Heat shatter	RF?								
321	OA3	9	9	1		FGS	absent	25	20.5-25	2.5	broken piece									
322	OA3	9	10	1		FGS	absent	41	40.5-45	23.5	Heat shatter	core frag?								poss partial negative scars
323	OA3	9	10	1		FGS	absent	17.5	15.5-20	0.6	Heat shatter	RF?								
324	OA3	9	11	1		FGS	absent	13.5	10.5-15	0.5	Heat shatter									
325	OA3	9	11	1		FGS	a third or less	20	15.5-20	2.3	Heat shatter									
326	OA3	9	11	2		FGS	absent	12.5	10.5-15	0.4	Heat shatter									
327	OA3	9	11	1		FGS	about half	11	10.5-15	0.3	Heat shatter									
328	OA3	9	11	1		FGS	absent	10	05.5-10	0.1	Heat shatter									
329	OA3	9	12	1		FGS	absent	18.5	15.5-20	0.7	Heat shatter									
330	OA3	9	12	1		FGS	absent	11	10.5-15	0.2	Heat shatter									
331	OA3	9	12	3		FGS	absent		10.5-15	0.6	FF/FP artefact									
332	OA3	9	12	1		FGS	a third or less	12	10.5-15	0.2	broken piece									
336	OA3	10	4	1		FGS	a third or less	20	15.5-20	2.0	Heat shatter									
337	OA3	10	4	1		FGS	a third or less	14.5	10.5-15	0.2	Heat shatter									
338	OA3	10	4	1		FGS	absent	17	15.5-20	0.4	Heat shatter									

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
339	OA3	10	5	1	1	Quartzite	a third or less	58	55.5-60	46.9	Platform artefact	flake	cortex	7.5	92	40	52	15		hinge-step distal, side curving cobble, rem cortex plat
340	OA3	10	5	1	0.5	FGS	a third or less	28.5	25.5-30	6.1	Core broken	ind							uni	split along flattish flaw, 1 uni plat wthrd surface
341	OA3	10	5	1	1	FGS	absent	16	15.5-20	1.3	Remnant flaked	proximal BF	(plain)							
342	OA3	10	5	1		FGS	absent	14	10.5-15	0.2	Heat shatter									
343	OA3	10	5	1		FGS	absent	11.5	10.5-15	0.4	Heat shatter									
344	OA3	10	5	1		Quartz	absent	9	05.5-10	0.1	broken piece									thin flat piece
345	OA3	10	6	1		FGS	absent	14	10.5-15	0.5	FF/FP artefact	medial								
346	OA3	10	6	1		FGS	absent	19	15.5-20	1.3	Heat shatter									
347	OA3	10	6	1		FGS	absent	17.5	15.5-20	0.2	Heat shatter									
348	OA3	10	7	1	0.5	Silcrete	absent	17	15.5-20	1.1	Platform artefact	CSBF left	(ridge)	7	86	16		5.5		
349	OA3	10	8	1		FGS	a third or less	27.5	25.5-30	5.4	Heat shatter									
350	OA3	10	8	1		FGS	absent	18	15.5-20	1.1	Heat shatter	RF?								poss step flkg dorsal edge of platform
351	OA3	10	9	1	1	Quartzite	absent	33.5	30.5-35	3.6	Platform artefact	flake	crushed			33	23	3.5		thin left lateral damaged
352	OA3	10	9	1		FGS	absent	41	40.5-45	36.4	Heat shatter									blocky piece
353	OA3	10	9	1		FGS	absent	20.5	20.5-25	0.8	Heat shatter	RF?								

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
354	OA3	10	9	1		FGS	absent	9.5	05.5-10	0.2	Heat shatter	RF?								
355	OA3	10	9	1		FGS	absent	14.5	10.5-15	0.5	Heat shatter									
356	OA3	10	13	1		Silcrete	a third or less	17	15.5-20	0.5	FF/FP artefact	medial								
357	OA3	11	2	1		FGS	absent	27	25.5-30	8.2	FF/FP artefact	medial						15		
358	OA3	11	3	1		FGS	absent	40	35.5-40	11.1	FF/FP artefact	medial								polish dorsal, prov x=53 y=53 z=10
359	OA3	11	4	1	0.5	FGS	three quarters or more	70	65.5-70	82.1	Manuport broken	nodule broken								
360	OA3	11	4	1		FGS	absent	13.5	10.5-15	0.4	FF/FP artefact	distal								
361	OA3	11	5	1	1	Quartzite	a third or less	25	20.5-25	2.1	Platform artefact	flake	cortex	4	65	18.5	16	3		poor to medium quality
362	OA3	11	5	1		FGS	absent	11	10.5-15	0.1	Heat shatter									
363	OA3	11	6	1	1	FGS	about half	65	60.5-65	58.2	Core	ind				28.5	63		uni	2 opp uni plats (1 wethrd) SA, new scar & new break PFA
364	OA3	11	7	1	1	FGS	absent	16	15.5-20	1.1	Platform artefact	proximal BF	plain	3.5	74	(12)	16	5		step termination, conjoins to 363
365	OA3	11	7	1	1	FGS	about half	41.5	40.5-45	12.5	Platform artefact	proximal BF	part crushed wethrd			33		6		dual PFA cones, 1 bulb
366	OA3	11	7	1		FGS	a third or less	17	15.5-20	1.3	broken piece									
367	OA3	11	7	1		FGS	absent	23	20.5-25	1.6	Heat shatter									
368	OA3	11	7	1		FGS	absent	15.5	15.5-20	1.0	Heat shatter									

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
369	OA3	11	7	1		FGS	absent	8	05.5-10	0.2	Heat shatter									
370	OA3	11	8	1		FGS	absent	16	15.5-20	0.6	Heat shatter	RF?								
371	OA3	11	8	1		FGS	absent	12.5	10.5-15	0.6	Heat shatter									
372	OA3	11	8	1		FGS	absent	10	05.5-10	0.1	Heat shatter	potlid								
373	OA3	11	9	1	0.5	Silcrete	absent	12.5	10.5-15	0.4	Platform artefact	CSBF left	(plain)	5	47					
374	OA3	11	9	1		Silcrete	absent	8	05.5-10	0.1	FF/FP artefact	medial								not same flake as 373
375	OA3	11	10	1		FGS	about half	16	15.5-20	1.5	broken piece									
376	OA3	11	10	1	0.5	FGS	absent	15	10.5-15	0.6	FF/FP artefact	medial right	(broken)							
377	OA3	11	11	1		FGS	a third or less	25.5	25.5-30	4.1	Heat shatter									
378	OA3	12	2	1		FGS	three quarters or more	27	25.5-30	2.7	broken piece	proxima?								poss prox BF with cone & PFA split away
379	OA3	12	3	1	1	FGS	absent	22	20.5-25	2.2	Platform artefact	proximal BF	(plain)							dorsal poss broken
380	OA3	12	4	1	0.5	FGS	absent	25	20.5-25	2.2	Possible use-wear broken	CSBF left	(plain)	9	52	21		6.5		fine continuous damage & poss rounding distal
381	OA3	12	4	1		Others	about half	60	55.5-60	21.8	Heat shatter									poss metamorphosed country rock
382	OA3	12	5	1	1	FGS	three quarters or more	14	10.5-15	0.3	Platform artefact	proximal BF	wethrd+scar	2	95					
383	OA3	12	6	1		FGS	absent	17.5	15.5-20	0.5	FF/FP artefact	distal								
384	OA3	12	6	1		FGS	absent	15	10.5-15	0.3	Heat shatter									

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
385	OA3	12	7	1	1	Silcrete	absent	19	15.5-20	1.0	Platform artefact	proximal BF	crushed			18		3.5		hinge termination
386	OA3	12	7	1	0.5	FGS	a third or less	18.5	15.5-20	0.8	Platform artefact	CSBF left	(wethrd)	5	55	16.5		4		hinge termination
387	OA3	12	7	1	1	FGS	three quarters or more	16	15.5-20	0.6	Platform artefact	flake	ridge	4		13	11	4		curving dorsal
388	OA3	12	7	1		FGS	a third or less	21.5	20.5-25	2.2	Heat shatter									
389	OA3	12	8	1		FGS	absent	20	15.5-20	0.9	FF/FP artefact	flaked piece								two small retouch scars look less weathered
390	OA3	12	8	1	1	FGS	about half	17	15.5-20	1.2	Platform artefact	proximal BF	(plain)	4	74					2 pieces refit
391	OA3	12	8	1	1	FGS	a third or less	27.5	25.5-30	2.5	Platform artefact	proximal BF	(weathered)							
392	OA3	12	8	1		FGS	absent	11	10.5-15	0.2	Heat shatter									
393	OA3	12	8	1		FGS	absent	16	15.5-20	1.1	Heat shatter									
394	OA3	12	9	1		FGS	absent	12	10.5-15	0.4	Heat shatter									
395	OA3	12	10	1		FGS	absent	14.5	10.5-15	1.3	Heat shatter									
396	OA3	12	10	1		FGS	absent	25.5	25.5-30	2.2	Remnant flaked	dorsal or core face								
397	OA3	12	12	1		Quartzite	absent	15.5	15.5-20	0.8	FF/FP artefact	medial right								
398	OA3	13	2	1		FGS	absent	18	15.5-20	1.0	Heat shatter									
399	OA3	13	2	1		FGS	absent	10	05.5-10	0.1	Heat shatter									
400	OA3	13	3	1		FGS	absent	38	35.5-40	3.5	FF/FP artefact	medial								remnant uni platform dorsal

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
401	OA3	13	3	1	1	FGS	absent	12	10.5-15	0.2	Platform artefact	flake	crushed			9	8	3		
402	OA3	13	5	1		FGS	absent	26	25.5-30	2.9	FF/FP artefact	medial								
403	OA3	13	6	1		FGS	absent	22	20.5-25	1.9	FF/FP artefact	medial								
404	OA3	13	6	1		FGS	absent	13	10.5-15	0.3	Heat shatter	RF?								
405	OA3	13	6	1		FGS	absent	11	10.5-15	0.3	Heat shatter									
406	OA3	13	6	1	0.5	FGS	about half	33	30.5-35	14.0	Manuport broken	nodule broken				(32)				poss new break, crystals inside
407	OA3	13	6	1		FGS	absent	29	25.5-30	4.0	broken piece	ind								
408	OA3	13	7	1	0.5	FGS	absent	19	15.5-20	0.9	Retouched broken	distal								frag, washd, steep R/ dmge distl, small notch corner
409	OA3	13	7	1	1	FGS	absent	17.5	15.5-20	0.9	Platform artefact	flake	flaw	3	66	16	14	3		
410	OA3	13	7	1	1	FGS	absent	10	05.5-10	0.1	Platform artefact	flake								
411	OA3	13	7	1		FGS	absent	16.5	15.5-20	0.5	Heat shatter									
412	OA3	13	7	1		FGS	absent	15.5	15.5-20	0.5	Heat shatter									
413	OA3	13	7	1		FGS	absent	14	10.5-15	0.3	Heat shatter									
414	OA3	13	7	1		Others	absent	24.5	20.5-25	2.6	broken piece									one surface like ventral distal
415	OA3	13	7	1		Others	absent	10	05.5-10	0.2	not artefact									
416	OA3	13	8	1		FGS	a third or less	22	20.5-25	2.8	Heat shatter									HS and breaks along flat planes

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
417	OA3	13	8	1	0.5	Others	absent	16	15.5-20	0.6	Platform artefact	CSBF left	(plain)	4.5	45	13		4		
418	OA3	13	10	1	0.5	Quartzite	about half	39	35.5-40	7.9	Platform artefact	CSBF left	(plain)	3.5	71	(36)		10		
419	OA3	13	10	1	0.5	FGS	a third or less	27	25.5-30	3.2	Platform artefact	CSBF left	(wethrd)	8	55					
420	OA3	13	10	1		Tuff	absent	35	30.5-35	9.8	Heat shatter	RF?								HS break like cream orange grey FGS HS
421	OA3	13	11	1	1	FGS	a third or less	19.5	15.5-20	0.9	Bipolar artefact	proximal BF	bipolar							crushed plat small scars vntrl & drsl, HS break ventral
422	OA3	13	11	1		Quartz	absent	15	10.5-15	0.3	FF/FP artefact	medial								not washed
423	OA3	13	11	1		FGS	absent	9	05.5-10	0.1	Heat shatter									
424	OA3	13	11	1		Ferricrete	absent	15	10.5-15	0.8	not artefact									
425	OA3	13	12	1		FGS	absent	13.5	10.5-15	0.7	FF/FP artefact	distal								
426	OA3	13	12	1		FGS	absent	10.5	10.5-15	0.1	FF/FP artefact	distal								
427	OA3	13	12	1	0.5	FGS	absent	10	05.5-10	0.6	Platform artefact	CSBF left								
428	OA3	13	12	1		FGS	absent	15	10.5-15	0.8	broken piece									
429	OA3	13	12	1		FGS	three quarters or more	16	15.5-20	0.6	Heat shatter									
430	OA3	13	13	1		FGS	a third or less	25.5	25.5-30	3.2	Heat shatter									
431	OA3	14	2	1	1	FGS	absent	14.5	10.5-15	0.4	Platform artefact	proximal BF	ridge	2	67					
432	OA3	14	3	1		FGS	absent	16.5	15.5-20	0.4	FF/FP artefact	distal								poss pce elongate flake,

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
																				but not true blade
433	OA3	14	4	1	1	FGS	absent	22	20.5-25	2.2	FF/FP artefact	distal	broken			(19.5)	20	4		
434	OA3	14	4	1		FGS	absent	27.5	25.5-30	6.8	Remnant flaked	core frag?								partial negative scar with big bulb
435	OA3	14	5	1	1	Silcrete	a third or less	19.5	15.5-20	1.8	Platform artefact	proximal BF	wetherd	4.5	65					
436	OA3	14	5	1		Silcrete	absent	15.5	15.5-20	0.6	FF/FP artefact	medial								
437	OA3	14	5	1		FGS	a third or less	31	30.5-35	4.3	FF/FP artefact	distal								
438	OA3	14	5	1		Others	absent	12.5	10.5-15	0.2	broken piece									
439	OA3	14	6	1	1	Quartzite	about half	35	30.5-35	4.8	Platform artefact	proximal BF	cortex	9.5	62	(15)	16	7		step termination
440	OA3	14	6	1		Quartzite	absent	21	20.5-25	1.8	FF/FP artefact	medial								
441	OA3	14	6	1		Tuff	absent	25	20.5-25	2.0	FF/FP artefact	distal								
442	OA3	14	6	1		FGS	absent	14	10.5-15	0.3	Remnant flaked									
443	OA3	14	6	1		FGS	absent	14	10.5-15	0.6	Heat shatter									
444	OA3	14	7	1		Tuff	absent	16.5	15.5-20	0.6	FF/FP artefact	medial								
445	OA3	14	7	1	0.5	FGS	absent	18	15.5-20	0.8	Platform artefact	CSBF right	(plain)	8	46	13		3		
446	OA3	14	8	1		Others	three quarters or more	18	15.5-20	0.9	Heat shatter									
447	OA3	14	8	1		FGS	about half	21	20.5-25	2.9	Heat shatter									

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
448	OA3	14	9	1	1	FGS	absent	21	20.5-25	1.9	Platform artefact	flake	plain	3		19.5	12	5		curving dorsal
449	OA3	14	9	1		FGS	absent	27.5	25.5-30	4.2	HS broken piece									
450	OA3	14	10	1	1	FGS	absent	19.5	15.5-20	1.3	Platform artefact	flake	ridge	6	56	15	17	3.5		
451	OA3	14	10	1	1	FGS	absent	18.5	15.5-20	1.1	Platform artefact	flake	plain	3.5	80	12	13.5	3.5		
452	OA3	14	10	1		FGS	about half	22	20.5-25	3.3	FF/FP artefact	flaked piece								partial neg scar - core fragment?
453	OA3	14	10	1		FGS	absent	15	10.5-15	0.3	Heat shatter									
454	OA3	14	10	1		FGS	absent	8	05.5-10	0.1	Heat shatter									
455	OA3	14	10	1		FGS	a third or less	17	15.5-20	1.8	not artefact	HS gravel?								
456	OA3	14	11	1		FGS	absent	33.5	30.5-35	10.0	Remnant flaked									partial neg scars - poss core frag
457	OA3	14	12	1	0.5	Quartzite	a third or less	17.5	15.5-20	1.2	Platform artefact	CSBF left	(plain)	4	81					
458	OA3	14	12	1		Quartzite	a third or less	26.5	25.5-30	3.9	FF/FP artefact	distal								from curving cobble
459	OA3	14	12	1	0.5	FGS	a third or less	34.5	30.5-35	26.1	Core broken	ind				(28)	27		uni	1 uni plat, partial scars rotated
460	OA3	14	12	1		FGS	absent	17	15.5-20	0.3	Heat shatter									
461	OA3	14	13	1	1	FGS	absent	24	20.5-25	1.1	Platform artefact	flake	plain		98	21.5	9	4		
462	OA3	14	13	1		FGS	absent	11	10.5-15	0.2	Heat shatter									
463	OA3	15	2	1		FGS	absent	15	10.5-15	0.5	Heat shatter									
464	OA3	15	3	1		Tuff	absent	18.5	15.5-20	4.2	FF/FP artefact	distal								

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
465	OA3	15	3	1		FGS	a third or less	30	25.5-30	9.2	Heat shatter									
466	OA3	15	3	1		Tuff	absent	48	45.5-50	18.8	broken piece	plunging distal								
467	OA3	15	4	1	0.5	FGS	a third or less	32.5	30.5-35	4.1	Platform artefact	CSBF right	(weathered)	8	50	28		7		
468	OA3	15	4	1		FGS	absent	16.5	15.5-20	0.6	Heat shatter									
469	OA3	15	5	1		FGS	absent	24	20.5-25	2.8	Heat shatter	RF?								
470	OA3	15	5	1		FGS	absent	19	15.5-20	1.2	Heat shatter									
471	OA3	15	5	1		FGS	three quarters or more	12.5	10.5-15	0.2	Heat shatter									
472	OA3	15	5	1		Tuff	absent	38	35.5-40	6.9	broken piece	not artefact								
473	OA3	15	5	1		Tuff	absent	21.5	20.5-25	4.6	Heat shatter									
475	OA3	15	6	1		FGS	absent	14.5	10.5-15	0.4	FF/FP artefact	distal								
476	OA3	15	6	1		FGS	three quarters or more	35	30.5-35	7.4	broken piece									
477	OA3	15	7	1		FGS	absent	15	10.5-15	0.6	FF/FP artefact									refits to 475, max 22mm
478	OA3	15	7	1	0.5	FGS	three quarters or more	52.5	50.5-55	15.0	Platform artefact	proximal right	broken							
479	OA3	15	7	1	1	FGS	absent	19	15.5-20	1.0	Platform artefact	proximal BF	plain	4						
480	OA3	15	7	1	1	FGS	absent	22.5	20.5-25	0.9	Platform artefact	flake	crushed			9	17	3		
481	OA3	15	7	1	1	Quartzite	about half	45	40.5-45	24.6	Platform artefact	flake	cortex			43	43	11		curving dorsal, from curving cobble

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments	
482	OA3	15	7	1		Tuff	absent	22	20.5-25	4.3	Heat shatter										
483	OA3	15	7	1		FGS	absent	14	10.5-15	1.3	Heat shatter										
484	OA3	15	8	1	1	Silcrete	absent	17	15.5-20	0.5	Platform artefact	flake	plain	3	81	11.5	17	1.5			
485	OA3	15	8	1	1	FGS	absent	11.5	10.5-15	0.1	Platform artefact	flake	crushed			9	7.5	1.5			
486	OA3	15	8	1		FGS	absent	26.5	25.5-30	5.6	Heat shatter	RF?									
487	OA3	15	8	1		FGS	absent	19	15.5-20	1.7	Heat shatter										
488	OA3	15	8	1		FGS	absent	11	10.5-15	0.2	Heat shatter										
489	OA3	15	9	1		FGS	absent	17	15.5-20	0.7	Remnant flaked										
490	OA3	15	10	1		FGS	a third or less	22.5	20.5-25	2.6	FF/FP artefact	distal									big heat shatter break ventral prox
491	OA3	15	10	1		FGS	three quarters or more	11	10.5-15	0.3	broken piece	broken piece									
492	OA3	15	10	1		FGS	absent	29	25.5-30	1.3	Heat shatter										
493	OA3	15	11	1	0.5	FGS	absent	15.5	15.5-20	0.6	Platform artefact	CSBF right	(plain)	2		12		3.5			
494	OA3	15	11	1	1	FGS	absent	17.5	15.5-20	1.2	Platform artefact	flake	plain	2		17	11	5			
495	OA3	15	11	1		FGS	absent	10.5	10.5-15	0.3	FF/FP artefact	medial									
496	OA3	15	11	1		FGS	about half	18.5	15.5-20	1.1	Heat shatter										
497	OA3	15	11	1		FGS	absent	14	10.5-15	0.4	Heat shatter										

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
498	OA3	15	12	1	1	FGS	absent	22	20.5-25	1.2	Platform artefact	flake	part crushed			14	16.5	2.5		
499	OA3	15	12	1	1	FGS	absent	21	20.5-25	0.7	Platform artefact	proximal BF	broken							
500	OA3	15	12	1	0.5	FGS	absent	14.5	10.5-15	0.4	Platform artefact	CSBF right	(plain)							
501	OA3	15	12	1		FGS	absent	19	15.5-20	0.3	broken piece									
502	OA3	15	12	1		FGS	absent	12	10.5-15	0.2	Heat shatter									
503	OA3	15	12	1		FGS	about half	33.5	30.5-35	11.0	broken piece									
504	OA3	16	2	1		FGS	absent	21	20.5-25	0.8	Remnant flaked	ventral								
505	OA3	16	3	1	0.5	Tuff	a third or less	34	30.5-35	11.8	Platform artefact	CSBF left	cortex	9	75			10		refits to 100, max 56.5mm BF
506	OA3	16	3	1		FGS	absent	19	15.5-20	1.9	FF/FP artefact	medial								heat shatter breaks
507	OA3	16	3	1		FGS	absent	15	10.5-15	0.8	FF/FP artefact	medial								
508	OA3	16	3	1		FGS	a third or less	18.5	15.5-20	1.7	Heat shatter									
509	OA3	16	3	1		FGS	absent	18	15.5-20	1.2	Heat shatter									
510	OA3	16	4	1	1	FGS	absent	18	15.5-20	1.3	Platform artefact	flake	crushed			17.5	12	6		ireg ventral, rem plat dorsal distal poss bifacial
511	OA3	16	4	1		FGS	absent	19	15.5-20	1.4	FF/FP artefact	flaked piece								opposed crushing, poss bipolar frag?
512	OA3	16	4	1	0.5	Quartzite	absent	21	20.5-25	1.3	Platform artefact	CSBF left	(crushed)			17.5		3		
513	OA3	16	4	1		FGS	absent	10	05.5-10	0.1	FF/FP artefact	medial								heat shatter breaks

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
514	OA3	16	4	1		FGS	absent	17	15.5-20	0.6	Heat shatter									
515	OA3	16	4	1		FGS	a third or less	15	10.5-15	0.7	Heat shatter									
516	OA3	16	4	1		FGS	absent	10.5	10.5-15	0.1	Heat shatter									
517	OA3	16	4	1	0.5	FGS	three quarters or more	44.5	40.5-45	29.6	Manuport broken									
518	OA3	16	4	1		FGS	about half	29	25.5-30	9.6	broken piece									potlid scar
519	OA3	16	5	1	1	FGS	about half	71	70.5-75	247.2	Core	nodule				45	61	40	uni	1 uni plat, few removals, abandoned
520	OA3	16	5	1	0.5	FGS	absent	39.5	35.5-40	10.7	Retouched broken	distal				(33)		10.5		steep R/ distal end scrpr notch but HS break
521	OA3	16	5	1	0.5	FGS	absent	11.5	10.5-15	0.3	Retouched broken	distal				(9)	9	3		steep R/ distal end scrpr slight concave notch
522	OA3	16	5	1	1	FGS	three quarters or more	14	10.5-15	0.4	Platform artefact	proximal BF	focal	1						
523	OA3	16	5	1	1	Tuff	absent	22.5	20.5-25	0.7	Platform artefact	proximal BF	crushed							poss elongate blade but RL brkn
524	OA3	16	5	1	0.5	FGS	absent	17.5	15.5-20	0.5	Platform artefact	CSBF left	(ridge?)	2	87	15		2		
525	OA3	16	5	1	0.5	FGS	absent	14	10.5-15	0.1	Platform artefact	CSBF left	(plain)	1		14.5		1		
526	OA3	16	5	1		FGS	absent	18	15.5-20	0.6	FF/FP artefact	distal								
527	OA3	16	5	1		FGS	absent	21	20.5-25	1.7	Remnant flaked	broken piece								mostly broken surfaces

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
528	OA3	16	5	1		FGS	three quarters or more	10	05.5-10	0.1	Heat shatter									
529	OA3	16	5	1		FGS	absent	9.5	05.5-10	0.2	Heat shatter									
530	OA3	16	5	1		FGS	three quarters or more	20	15.5-20	2.5	broken piece									
531	OA3	16	5	1		FGS	three quarters or more	11.5	10.5-15	0.2	broken piece									
532	OA3	16	5	1		Others	absent	21	20.5-25	1.5	not artefact									
533	OA3	16	6	1	0.5	FGS	absent	18	15.5-20	1.0	Backed broken	medial				(17.5)	12	4.5		tip brkn, crescent BASI (CL=17.5+2.5?) MW=12 LMW=10
534	OA3	16	6	1	1	Silcrete	absent	33	30.5-35	3.3	Platform artefact	flake	plain	2	67	23.5	21	3.5		
535	OA3	16	6	1		Silcrete	absent	17	15.5-20	0.5	FF/FP artefact	distal								
536	OA3	16	6	1	1	FGS	absent	15.5	15.5-20	0.2	Platform artefact	flake	part crushed			13	9	1		
537	OA3	16	6	1	1	FGS	absent	12	10.5-15	0.1	Platform artefact	proximal BF	crushed							
538	OA3	16	6	1		FGS	absent	16	15.5-20	0.7	FF/FP artefact	medial								heat shatter break part ventral
539	OA3	16	6	1		FGS	absent	16	15.5-20	0.2	FF/FP artefact	medial								
540	OA3	16	6	1		FGS	absent	17	15.5-20	1.3	FF/FP artefact	distal								
541	OA3	16	6	1		FGS	absent	16.5	15.5-20	0.2	FF/FP artefact	medial								

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
542	OA3	16	6	1		FGS	absent	13	10.5-15	0.2	FF/FP artefact	distal								from opposed core, rem crushd plat distal end dorsal
543	OA3	16	6	1		FGS	absent	13	10.5-15	0.0	Heat shatter									
544	OA3	16	6	1		FGS	absent	13.5	10.5-15	0.2	broken piece									
545	OA3	16	6	1		FGS	absent	7.5	05.5-10	0.2	broken piece									
546	OA3	16	6	1		FGS	three quarters or more	29	25.5-30	3.2	broken piece									
547	OA3	16	6	1		FGS	a third or less	39.5	35.5-40	12.1	Heat shatter									
548	OA3	16	7	1	1	Silcrete	absent	24.5	20.5-25	1.1	Platform artefact	flake	part crushed			16	16	2.5		wide, skewed left max length 20
549	OA3	16	7	1	1	FGS	absent	15	10.5-15	0.4	Platform artefact	flake	crushed			15	7	2		not elongate blade
550	OA3	16	7	1	1	FGS	absent	15.5	15.5-20	0.3	Platform artefact	flake	plain	3		7	11	3		rough poor stone dorsal
551	OA3	16	7	1		FGS	absent	15	10.5-15	0.3	FF/FP artefact	medial								
552	OA3	16	7	1		FGS	absent	13	10.5-15	0.2	FF/FP artefact	medial								
553	OA3	16	7	1		FGS	a third or less	20.5	20.5-25	1.4	broken piece									
554	OA3	16	7	1		FGS	absent	12	10.5-15	0.2	Heat shatter									
555	OA3	16	8	1	0.5	FGS	absent	33	30.5-35	12.7	Core broken	ind				(22.5)	28		uni	frag, 1 uni plat, split along flaw, poss HS beak
556	OA3	16	8	1	1	FGS	absent	30	25.5-30	8.7	Platform artefact	proximal BF	scar	16						

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments	
557	OA3	16	8	1	0.5	Silcrete	absent	22	20.5-25	1.5	Platform artefact	CSBF left	(plain)	6	51						
558	OA3	16	8	1	1	FGS	absent	16.5	15.5-20	0.4	FF/FP artefact	distal	heavily crushed			(16)	7.5	3		plunging, not elongate	
559	OA3	16	8	1		FGS	a third or less	17.5	15.5-20	1.7	broken piece										
560	OA3	16	8	1		FGS	absent	14.5	10.5-15	0.3	Heat shatter										
561	OA3	16	8	1		FGS	absent	14	10.5-15	0.3	Heat shatter	potlid									
562	OA3	16	8	1		FGS	absent	12	10.5-15	0.3	Heat shatter										
563	OA3	16	9	1	1	FGS	absent	20	15.5-20	1.1	Platform artefact	flake	plain	2		17	15	1.5		dorsal bit irregular	
564	OA3	16	9	1		FGS	a third or less	9	05.5-10	0.1	FF/FP artefact	distal								damage distal end	
565	OA3	16	9	1		FGS	absent	19	15.5-20	1.2	Heat shatter										
566	OA3	16	9	1	1	Quartzite	a third or less	21	20.5-25	2.0	Platform artefact	flake	cortex	7	76	16	17.5	5			
567	OA3	16	10	1	1	FGS	absent	13	10.5-15	0.3	Platform artefact	proximal BF	plain	2						heat shatter break dorsal	
568	OA3	16	11	1	1	FGS	absent	12	10.5-15	0.1	Platform artefact	proximal BF	crushed								
569	OA3	17	3	1		FGS	a third or less	23.5	20.5-25	5.6	FF/FP artefact	distal									
570	OA3	17	3	1		FGS	absent	21.5	20.5-25	3.6	Core broken	ind							asym	remnant asym platform, HS and flaw breaks	
571	OA3	17	3	1		FGS	absent	15.5	15.5-20	0.6	Heat shatter										
572	OA3	17	3	1		FGS	absent	14	10.5-15	0.2	Heat shatter										
573	OA3	17	3	1		FGS	absent	12.5	10.5-15	0.3	Heat shatter										

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments	
574	OA3	17	4	1	1	FGS	absent	17	15.5-20	0.6	Platform artefact	proximal BF	plain part crushed		72						
575	OA3	17	4	1		FGS	three quarters or more	31	30.5-35	9.9	broken piece										
576	OA3	17	5	1		FGS	absent	15	10.5-15	0.3	FF/FP artefact	distal									
577	OA3	17	5	1		FGS	absent	11	10.5-15	0.2	broken piece										
578	OA3	17	5	1		Quartz	absent	26.5	25.5-30	1.6	broken piece	bit worn									
579	OA3	17	6	1	1	FGS	three quarters or more	59	55.5-60	52.8	Core	nodule				21	60	26	uni	1 uni plat, SA, 2 scars	
580	OA3	17	6	1	1	Quartzite	absent	14	10.5-15	0.3	Platform artefact	proximal BF	plain	1.5	70	(10)	10.5	2		step termination	
581	OA3	17	6	1		FGS	absent	19.5	15.5-20	0.3	FF/FP artefact	medial								2 pieces refit	
582	OA3	17	6	1		FGS	absent	7.5	05.5-10	0.0	FF/FP artefact	medial									
583	OA3	17	6	1		FGS	absent	19.5	15.5-20	1.3	FF/FP artefact	distal									
584	OA3	17	6	1		FGS	absent	9.5	05.5-10	0.0	Remnant flaked										
585	OA3	17	6	1		FGS	absent	14	10.5-15	0.4	broken piece	flaked?								1 surface flaw, opp face poss flaked	
586	OA3	17	6	1		FGS	absent	15	10.5-15	0.5	broken piece										
587	OA3	17	6	4		FGS	absent		10.5-15	1.1	Heat shatter										
588	OA3	17	7	1	1	FGS	absent	19	15.5-20	0.8	Platform artefact	proximal BF	broken								
589	OA3	17	7	1		FGS	three quarters or more	13	10.5-15	0.1	FF/FP artefact	distal									

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments	
590	OA3	17	7	3		FGS	absent		05.5-10	0.4	Heat shatter										
591	OA3	17	9	1		Others	three quarters or more	46	45.5-50	10.7	broken piece										poss skewed flake with partial crushed platform
592	OA3	17	9	1		FGS	absent	13.5	10.5-15	0.2	FF/FP artefact	distal									
593	OA3	17	9	1		FGS	absent	16.5	15.5-20	0.4	FF/FP artefact	medial									
594	OA3	17	9	1		FGS	a third or less	10	05.5-10	0.3	Heat shatter										
595	OA3	17	9	1		FGS	absent	7	05.5-10	0.1	Heat shatter										
596	OA3	17	9	2		FGS	absent		10.5-15	0.4	Heat shatter										
597	OA3	17	9	1		Quartz	three quarters or more	13.5	10.5-15	1.2	not artefact	gravel									
598	OA3	17	10	1	1	FGS	absent	17	15.5-20	0.8	Platform artefact	flake	focal	2	85	16	12.5	4			remnant uni platform
599	OA3	17	12	1	1	FGS	absent	28	25.5-30	1.9	Platform artefact	proximal BF	plain	3.5	72	(19.5)	19	4			
600	OA3	17	12	2		FGS	absent		10.5-15	1.1	Heat shatter										
601	OA3	17	13	1		FGS	absent	17	15.5-20	0.4	Heat shatter										
602	OA3	17	13	1		FGS	absent	14	10.5-15	0.2	Heat shatter										
603	OA3	18	2	1	0.5	FGS	absent	22.5	20.5-25	1.7	Platform artefact	CSBF right	(irregular)	6.5	52						
604	OA3	18	2	1		FGS	absent	37	35.5-40	21.7	Heat shatter										
605	OA3	18	2	1		FGS	a third or less	20	15.5-20	3.7	broken piece										

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments	
606	OA3	18	4	1		FGS	absent	20.5	20.5-25	1.7	Heat shatter	RF?									poss partial ventral surface
607	OA3	18	5	1	1	FGS	absent	29	25.5-30	4.0	Platform artefact	proximal BF	crushed			29.5		12			HS break right dorsal
608	OA3	18	5	1	1	FGS	absent	18	15.5-20	0.6	Platform artefact	flake	broken	3.5	80	17.5	9.5	2.5			
609	OA3	18	5	1		FGS	absent	19	15.5-20	0.9	Heat shatter										
610	OA3	18	5	1		FGS	absent	13	10.5-15	0.6	Heat shatter										
611	OA3	18	6	1		FGS	absent	13.5	10.5-15	0.3	Bipolar artefact	medial				(12.5)	8	2.5			ventral shows ripple marks initiated from both ends
612	OA3	18	6	1		FGS	absent	13	10.5-15	0.2	FF/FP artefact	medial									
613	OA3	18	6	1		FGS	three quarters or more	15	10.5-15	0.4	Heat shatter										
614	OA3	18	6	1		FGS	about half	13.5	10.5-15	0.4	Heat shatter	RF distal?									
615	OA3	18	6	1		FGS	three quarters or more	16	15.5-20	0.3	Heat shatter										
616	OA3	18	6	1		FGS	absent	15.5	15.5-20	0.5	Heat shatter										
617	OA3	18	6	1		FGS	absent	10.5	10.5-15	0.1	Heat shatter										
618	OA3	18	6	1		FGS	absent	15	10.5-15	0.3	Heat shatter										
619	OA3	18	6	1		FGS	absent	12	10.5-15	0.2	Heat shatter										
620	OA3	18	6	1		FGS	absent	11	10.5-15	0.2	Heat shatter										
621	OA3	18	6	1		FGS	absent	20.5	20.5-25	3.3	broken piece										

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments	
622	OA3	18	6	1		FGS	a third or less	25	20.5-25	3.0	broken piece										
623	OA3	18	7	1	1	FGS	absent	18.5	15.5-20	0.7	Platform artefact	proximal BF	plain	3	80						
624	OA3	18	7	1	1	FGS	absent	11.5	10.5-15	0.2	Platform artefact	flake	crushed			7	5	2		skewed wide flake	
625	OA3	18	7	1		Silcrete	absent	12	10.5-15	0.2	FF/FP artefact	distal									
626	OA3	18	7	2		FGS	absent	18	15.5-20	1.8	Heat shatter										
627	OA3	18	7	2		FGS	absent	11	10.5-15	0.5	Heat shatter										
628	OA3	18	7	1		FGS	absent	15.5	15.5-20	0.3	Heat shatter										
629	OA3	18	7	1		FGS	absent	14	10.5-15	0.2	Heat shatter										
630	OA3	18	7	1		FGS	absent	11	10.5-15	0.2	Heat shatter										
631	OA3	18	7	1		FGS	three quarters or more	20	15.5-20	2.3	broken piece										
632	OA3	18	7	1		FGS	absent	8	05.5-10	0.2	broken piece										
633	OA3	18	7	1		FGS	absent	16	15.5-20	1.0	broken piece	RF?									
634	OA3	18	8	1	0.5	Quartzite	a third or less	26	25.5-30	2.2	Platform artefact	proximal left	(cortex)	3	81	(24)		3			from sub-angular pebble/cobble
635	OA3	18	8	1		FGS	absent	28	25.5-30	5.2	Heat shatter										
636	OA3	18	8	1		FGS	absent	18	15.5-20	0.5	Heat shatter										
637	OA3	18	8	1		FGS	about half	14	10.5-15	0.4	Heat shatter										

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments		
638	OA3	18	8	5		FGS	absent		10.5-15	0.7	Heat shatter											
639	OA3	18	8	1		FGS	absent	9.5	05.5-10	0.1	Heat shatter											
640	OA3	18	8	1		FGS	absent	24	20.5-25	3.0	broken piece											
641	OA3	18	8	1		FGS	absent	22	20.5-25	4.1	Heat shatter											
642	OA3	18	8	1		FGS	absent	11	10.5-15	0.2	Heat shatter											
643	OA3	18	9	1		FGS	absent	9.5	05.5-10	0.1	broken piece											
644	OA3	18	9	1		FGS	absent	12	10.5-15	0.2	Heat shatter											
645	OA3	18	9	1		FGS	absent	10	05.5-10	0.2	Heat shatter											
646	OA3	18	9	4		FGS	absent		15.5-20	2.1	Heat shatter											
647	OA3	18	9	2		FGS	absent		10.5-15	1.1	Heat shatter											
648	OA3	18	10	1		FGS	absent	25	20.5-25	3.7	FF/FP artefact	medial									extensive heat shatter breaks	
649	OA3	18	10	1		FGS	a third or less	17.5	15.5-20	0.6	Heat shatter											
650	OA3	18	10	1		FGS	three quarters or more	11.5	10.5-15	0.6	Heat shatter											
651	OA3	18	10	1		FGS	absent	24	20.5-25	5.4	Heat shatter											
652	OA3	18	10	1		FGS	absent	23	20.5-25	1.1	Heat shatter											
653	OA3	18	10	5		FGS	absent		15.5-20	4.5	Heat shatter											
654	OA3	18	10	3		FGS	absent		10.5-15	0.8	Heat shatter											

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
655	OA3	18	10	1		FGS	absent	22.5	20.5-25	1.2	Heat shatter									
656	OA3	18	10	1		FGS	absent	13	10.5-15	0.3	Heat shatter									
657	OA3	18	10	1		FGS	absent	11.5	10.5-15	0.2	Heat shatter									
658	OA3	18	10	1	0.5	FGS	three quarters or more	29	25.5-30	6.8	Manuport broken	nodule broken				(29)	16.5	11		max 11 thick, brkn 1 end, not good material supply
659	OA3	18	11	1	1	FGS	absent	10	05.5-10	0.1	Platform artefact	proximal BF	crushed							
660	OA3	18	11	1		FGS	a third or less	27.5	25.5-30	4.2	Heat shatter									
661	OA3	18	11	1		FGS	a third or less	13.5	10.5-15	0.3	Heat shatter									
662	OA3	18	11	1		FGS	a third or less	8	05.5-10	0.1	Heat shatter									
663	OA3	18	11	2		FGS	absent		10.5-15	0.7	Heat shatter									
664	OA3	18	11	1		FGS	absent	10	05.5-10	0.1	Heat shatter									
665	OA3	18	11	1		FGS	a third or less	9.5	05.5-10	0.3	broken piece									
666	OA3	18	12	1		FGS	three quarters or more	15	10.5-15	0.5	Heat shatter									
667	OA3	18	12	1		FGS	a third or less	12	10.5-15	0.2	Heat shatter									
668	OA3	18	12	1		FGS	a third or less	9.5	05.5-10	0.1	Heat shatter									
669	OA3	18	12	2		FGS	absent		10.5-15	0.5	Heat shatter									
670	OA3	18	12	1		FGS	absent	8	05.5-10	0.0	Heat shatter									

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
671	OA3	18	13	1		FGS	absent	12	10.5-15	0.2	Heat shatter									
672	OA3	18	13	1		FGS	three quarters or more	10	05.5-10	0.2	Heat shatter									
673	OA3	19	2	1	0.5	FGS	absent	22	20.5-25	0.8	Platform artefact	CSBF left	(plain)	8						
674	OA3	19	2	1		FGS	three quarters or more	18	15.5-20	0.7	Heat shatter									
675	OA3	19	2	1		FGS	about half	16.5	15.5-20	1.4	broken piece									
676	OA3	19	3	1	1	FGS	absent	22.5	20.5-25	1.1	Platform artefact	proximal BF	plain	4.5	58	10.5	23	2.3		potlid scars ventral, break left distal
677	OA3	19	3	1		FGS	absent	11	10.5-15	0.2	Remnant flaked									
678	OA3	19	5	1	1	FGS	a third or less	35.5	35.5-40	9.2	Platform artefact	flake	plain	4	76	31	19.5	11		plunging, max 13 thick
679	OA3	19	5	1	1	Silcrete	absent	19	15.5-20	1.2	Platform artefact	flake	ridge	9	50	11	5	3		prox end of flake body on dorsal of platform
680	OA3	19	5	1	1	Silcrete	absent	19	15.5-20	1.0	Platform artefact	proximal BF	(plain)							big heat shatter break ventral prox
681	OA3	19	5	1		FGS	absent	23	20.5-25	0.3	FF/FP artefact	medial						1.5		fine continuous damage distal edge
682	OA3	19	5	1	1	FGS	absent	19.5	15.5-20	0.5	FF/FP artefact	distal	broken							
683	OA3	19	5	1		FGS	absent	13	10.5-15	0.5	FF/FP artefact	medial								
684	OA3	19	5	1		FGS	absent	7	05.5-10	0.0	FF/FP artefact	distal								

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

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685	OA3	19	5	1		Quartzite	a third or less	33.5	30.5-35	2.7	broken piece											
686	OA3	19	5	1		Quartzite	absent	9	05.5-10	0.2	Heat shatter											
687	OA3	19	5	1		Others	absent	16.5	15.5-20	0.7	Heat shatter											
688	OA3	19	5	1		Others	absent	12	10.5-15	0.2	Heat shatter											
689	OA3	19	5	1		FGS	absent	25	20.5-25	1.7	Heat shatter											
690	OA3	19	5	1		FGS	absent	21.5	20.5-25	1.3	Heat shatter	RF?										
691	OA3	19	5	1		FGS	three quarters or more	11.5	10.5-15	0.2	Heat shatter											
692	OA3	19	5	1		Ferricrete	absent	9.5	05.5-10	0.2	not artefact											
693	OA3	19	6	1	1	Quartz	about half	27	25.5-30	3.2	Platform artefact	proximal BF	cortex	7		22		7.5				
694	OA3	19	6	1	0.5	FGS	a third or less	25	20.5-25	2.4	Platform artefact	proximal left	(wethd)									
695	OA3	19	6	1		FGS	absent	10	05.5-10	0.2	broken piece											
696	OA3	19	6	1		FGS	absent	9	05.5-10	0.1	broken piece											
697	OA3	19	6	1		FGS	absent	16	15.5-20	1.1	FF/FP artefact	medial										
698	OA3	19	6	1		FGS	absent	14	10.5-15	0.2	Remnant flaked											
699	OA3	19	6	1		FGS	three quarters or more	19	15.5-20	1.4	Heat shatter											
700	OA3	19	6	1		FGS	about half	13.5	10.5-15	0.2	Heat shatter											

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
701	OA3	19	6	1		FGS	about half	20.5	20.5-25	0.3	Heat shatter									
702	OA3	19	6	1		FGS	absent	10.5	10.5-15	0.2	Heat shatter									
703	OA3	19	8	1		FGS	absent	16	15.5-20	1.2	FF/FP artefact	medial								>11 mm thick, HS breaks
704	OA3	19	8	1		FGS	absent	21	20.5-25	1.8	Heat shatter	RF?								
705	OA3	19	8	1		FGS	absent	10	05.5-10	0.2	Heat shatter									
706	OA3	19	9	1		FGS	a third or less	20	15.5-20	2.0	Heat shatter									
707	OA3	19	9	1		FGS	absent	17	15.5-20	0.6	Heat shatter									
708	OA3	19	9	1	1	FGS	absent	23	20.5-25	6.2	Core	ind				16.5	20	11.5	uni	1 uni plat, no anvil crushing
709	OA3	19	10	1		Quartzite	about half	17	15.5-20	0.5	FF/FP artefact	medial?								
710	OA3	19	10	1		FGS	absent	14	10.5-15	0.5	Heat shatter									
711	OA3	19	10	1		FGS	absent	12	10.5-15	0.3	Heat shatter									
712	OA3	19	11	1	0.5	FGS	absent	11	10.5-15	0.2	Platform artefact	CSBF right	(plain)	1.5	64					
713	OA3	19	12	1		FGS	absent	12	10.5-15	0.2	FF/FP artefact	distal								hinge
714	OA3	19	12	1		FGS	absent	9	05.5-10	0.2	Heat shatter									
715	OA3	19	12	1		FGS	absent	9	05.5-10	0.1	Heat shatter									
716	OA3	19	13	1		FGS	absent	15	10.5-15	0.4	FF/FP artefact	medial								
717	OA3	20	2	1		FGS	absent	8	05.5-10	0.1	FF/FP artefact	distal								

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
718	OA3	20	3	1	0.5	FGS	absent	15.5	15.5-20	0.4	Backed used broken	distal								prob Bondi frag, fibre attached to chord
719	OA3	20	3	1		FGS	absent	20.5	20.5-25	0.5	FF/FP artefact	distal				(19)	8.5	2		elongate, new break - 2 pieces refit
720	OA3	20	3	1		FGS	a third or less	13.5	10.5-15	0.6	FF/FP artefact	medial								
721	OA3	20	3	1		FGS	absent	13	10.5-15	0.5	Heat shatter									
722	OA3	20	3	1		FGS	absent	9	05.5-10	0.0	broken piece									
723	OA3	20	4	1	0.5	FGS	absent	20	15.5-20	0.5	Backed broken	medial				(19.5)	7	2.5		Bondi, both ends broken
724	OA3	20	4	1	1	FGS	absent	15	10.5-15	0.3	Backed artefact	distal				14	8	2.5		triangle to trapeze, BASI CL=15 MW=9 LMW=2
725	OA3	20	4	1		FGS	a third or less	26.5	25.5-30	2.7	FF/FP artefact	distal				26.5	15	4		crescent shape, rem plat or R/ from dorsal
726	OA3	20	4	1	1	Quartzite	about half	24	20.5-25	2.1	Platform artefact	proximal BF	plain	5	69	(23.5)	16	5		
727	OA3	20	4	1		FGS	absent	22	20.5-25	1.3	FF/FP artefact	distal								
728	OA3	20	4	1		FGS	about half	26	25.5-30	2.8	broken piece									
729	OA3	20	4	1		FGS	absent	20.5	20.5-25	1.2	FF/FP artefact	flaked piece								
730	OA3	20	5	1	1	FGS	absent	26.5	25.5-30	0.9	Backed artefact	flake	ridge	1.5	88	26.5	8.5	2.5		Bondi, hinge termination BASI CL=25.5 MW=8.5 LMW=11.5
731	OA3	20	5	1	1	FGS	absent	11	10.5-15	0.1	Platform artefact	flake	focal	2	81	10.5	6	2		

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
732	OA3	20	5	1		Quartzite	absent	16.5	15.5-20	0.6	FF/FP artefact	medial								
733	OA3	20	5	1		FGS	absent	17	15.5-20	0.5	Heat shatter									
734	OA3	20	5	1		FGS	about half	9.5	05.5-10	0.2	Heat shatter									
735	OA3	20	5	1	1	FGS	three quarters or more	37	35.5-40	12.6	Manuport	nodule				36	20	14		irregular shape, not material supply
736	OA3	20	6	1	1	FGS	three quarters or more	15	10.5-15	0.9	Platform artefact	proximal BF	broken							
737	OA3	20	6	1	1	FGS	absent	18	15.5-20	0.8	Platform artefact	proximal BF	plain	4						
738	OA3	20	6	1		FGS	absent	12	10.5-15	0.2	Remnant flaked									
739	OA3	20	6	1		FGS	absent	8.5	05.5-10	0.0	Heat shatter									
740	OA3	20	7	1	1	FGS	a third or less	37	35.5-40	14.6	Core	ind				28	26.5	8	uni	max 18mm thick, 1 uni plat, broke, rotated, blades thin
741	OA3	20	7	1	1	FGS	absent	10.5	10.5-15	0.2	Platform artefact	proximal BF	scar	1.5	85					
742	OA3	20	7	1		FGS	absent	7	05.5-10	0.1	broken piece									
743	OA3	20	7	1		FGS	about half	21.5	20.5-25	2.7	Heat shatter									
744	OA3	20	7	1		FGS	a third or less	14.5	10.5-15	1.0	Heat shatter									
745	OA3	20	7	1		FGS	a third or less	16.5	15.5-20	0.7	Heat shatter									
746	OA3	20	8	1		FGS	absent	38	35.5-40	5.3	FF/FP artefact	distal								

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
747	OA3	20	8	1		FGS	absent	17.5	15.5-20	1.5	FF/FP artefact	flaked piece								partial neg scars, fld & flaw surfaces
748	OA3	20	8	1	1	FGS	absent	18	15.5-20	0.7	Platform artefact	flake	crushed			10.5	15	2.5		
749	OA3	20	8	1		FGS	a third or less	22	20.5-25	1.1	Heat shatter									
750	OA3	20	10	1		FGS	absent	20.5	20.5-25	0.6	Heat shatter									
751	OA3	20	10	1		FGS	absent	19	15.5-20	0.6	Heat shatter									
752	OA3	20	10	2		FGS	absent		10.5-15	0.4	Heat shatter									
753	OA3	20	11	1		FGS	absent	18	15.5-20	1.1	Heat shatter									
754	OA3	20	11	3		FGS	absent		10.5-15	1.5	Heat shatter									
755	OA3	20	12	1		FGS	absent	23	20.5-25	2.7	Heat shatter	RF?								
756	OA3	20	12	3		FGS	a third or less		10.5-15	0.8	Heat shatter									
757	OA3	20	12	1		FGS	absent	13.5	10.5-15	0.2	Heat shatter									
758	OA3	20	12	1		FGS	about half	10.5	10.5-15	0.2	Heat shatter									
759	OA3	20	12	1		FGS	absent	10	05.5-10	0.1	Heat shatter									
760	OA3	20	13	2		FGS	absent		10.5-15	1.0	Heat shatter									
761	OA3	20	13	1		FGS	absent	10	05.5-10	0.1	Remnant flaked									
762	OA3	21	3	1		Silcrete	absent	15.5	15.5-20	0.5	FF/FP artefact	distal								
763	OA3	21	3	1		FGS	absent	15	10.5-15	0.8	FF/FP artefact	medial								

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments		
764	OA3	21	3	1		FGS	about half	28.5	25.5-30	6.8	Heat shatter											
765	OA3	21	3	1		FGS	absent	15	10.5-15	1.0	Heat shatter											
766	OA3	21	3	1		FGS	absent	11.5	10.5-15	0.2	broken piece	RF?									broke along flaw, potlid scar	
767	OA3	21	4	1	1	FGS	absent	19	15.5-20	0.6	Platform artefact	proximal BF	plain	2	83	(19)	7	4			broken elongate flake	
768	OA3	21	4	1		Quartz	about half	16.5	15.5-20	1.0	not artefact	gravel										
769	OA3	21	5	1		FGS	about half	35.5	35.5-40	25.5	Remnant flaked	HS broken nodule										
770	OA3	21	5	1		FGS	absent	15.5	15.5-20	0.8	Heat shatter	RF?										
771	OA3	21	5	1		FGS	absent	15	10.5-15	0.3	Heat shatter											
772	OA3	21	5	1		FGS	absent	27	25.5-30	3.7	Heat shatter											
773	OA3	21	5	1		FGS	absent	10	05.5-10	0.1	Heat shatter	RF?										
774	OA3	21	5	1		Ferricrete	absent	13.5	10.5-15	0.6	not artefact											
775	OA3	21	6	1	1	Silcrete	absent	21.5	20.5-25	2.2	Platform artefact	flake	plain	7.5	61	17	14	4.5				
776	OA3	21	6	1	1	Silcrete	absent	21	20.5-25	1.7	Platform artefact	proximal BF	crushed									
777	OA3	21	6	1	1	FGS	absent	15	10.5-15	0.1	Platform artefact	proximal BF	crushed			10		1				
778	OA3	21	6	1		FGS	about half	26	25.5-30	2.9	Heat shatter											
779	OA3	21	6	1		FGS	absent	23.5	20.5-25	5.7	FF/FP artefact	flaked piece									rem plat & partial neg scar, poss part vntrl, flaw brks	

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
780	OA3	21	6	1		FGS	about half	25	20.5-25	3.5	broken piece									
781	OA3	21	7	1		Silcrete	absent	13	10.5-15	0.2	FF/FP artefact	medial								
782	OA3	21	7	1		FGS	absent	20	15.5-20	2.2	Heat shatter									
783	OA3	21	7	1		FGS	absent	12	10.5-15	0.3	Heat shatter									
784	OA3	21	8	1		FGS	absent	8.5	05.5-10	0.1	FF/FP artefact	distal								
785	OA3	21	8	1	1	FGS	absent	8	05.5-10	0.1	Platform artefact	proximal BF								
786	OA3	21	8	1		FGS	a third or less	14.5	10.5-15	0.6	Heat shatter									
787	OA3	21	8	1		FGS	three quarters or more	9	05.5-10	0.1	Heat shatter									
788	OA3	21	9	1		Quartz	three quarters or more	12	10.5-15	0.4	not artefact									
789	OA3	21	9	1		Quartz	three quarters or more	6.5	05.5-10	0.0	not artefact									
790	OA3	21	10	1	0.5	FGS	absent	18	15.5-20	1.1	FF/FP artefact	medial left	broken							
791	OA3	21	10	1		FGS	three quarters or more	14	10.5-15	1.0	broken piece	wethd HS								
792	OA3	21	11	1	1	FGS	absent	15	10.5-15	0.3	Platform artefact	proximal BF	(plain)							heat shatter dorsal surface
793	OA3	21	11	1		FGS	a third or less	14	10.5-15	0.5	Heat shatter									
794	OA3	21	11	1		FGS	three quarters or more	14	10.5-15	0.2	Heat shatter									

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments	
795	OA3	22	2	1	1	Silcrete	absent	12	10.5-15	0.2	Platform artefact	flake	focal	2	70	9	12	1			
796	OA3	22	2	1		FGS	absent	17	15.5-20	0.4	Heat shatter										
797	OA3	22	3	1	1	FGS	a third or less	18	15.5-20	0.4	Platform artefact	flake	wethrd	3	71	17	9	2.5		almost CSBF right	
798	OA3	22	3	1	1	FGS	absent	20.5	20.5-25	1.0	Platform artefact	flake	wethrd	3	71	17	9	2.5		almost CSBF right	
799	OA3	22	3	1		FGS	absent	15.5	15.5-20	0.7	FF/FP artefact	medial									
800	OA3	22	4	1	1	Quartz	three quarters or more	17	15.5-20	1.2	Bipolar artefact	flake	bipolar			16	15.5	3		2 thin ends	
801	OA3	22	4	1	1	FGS	absent	17.5	15.5-20	0.6	Platform artefact	proximal BF	plain	2	68						
802	OA3	22	4	1	1	FGS	absent	9.5	05.5-10	0.1	Platform artefact	proximal BF									
803	OA3	22	4	1		FGS	absent	23	20.5-25	3.2	Heat shatter										
804	OA3	22	5	1	1	Quartzite	about half	27	25.5-30	3.8	Platform artefact	proximal BF	cortex	12.5							
805	OA3	22	5	1	1	FGS	absent	13.5	10.5-15	0.3	Platform artefact	flake	ridge	2		8	13	2.5			
806	OA3	22	5	1		FGS	absent	20	15.5-20	3.5	broken piece										poss ventral surfaace
807	OA3	22	5	1	1	FGS	absent	15	10.5-15	0.5	Platform artefact	proximal BF	crushed								
808	OA3	22	5	1		FGS	absent	14	10.5-15	0.5	Remnant flaked										
809	OA3	22	5	1		FGS	absent	14	10.5-15	0.7	Heat shatter										
810	OA3	22	5	1		FGS	absent	43	40.5-45	24.3	Heat shatter										new damage like volcanic (latite?)

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
811	OA3	22	6	1	0.5	Quartzite	a third or less	47.5	45.5-50	13.8	Platform artefact	CSBF right	(cortex)	6.5	70	45				
812	OA3	22	6	1		FGS	absent	29	25.5-30	4.1	broken piece									
813	OA3	22	6	1		FGS	three quarters or more	34	30.5-35	8.4	broken piece									
814	OA3	22	6	1		FGS	about half	22	20.5-25	2.5	Heat shatter									
815	OA3	22	6	1		FGS	absent	9	05.5-10	0.4	Heat shatter	RF?								
816	OA3	22	7	1	1	Quartzite	a third or less	25.5	25.5-30	2.6	Platform artefact	flake	cortex	5	61	17	23	4		
817	OA3	22	7	1	1	FGS	a third or less	23.5	20.5-25	2.4	Platform artefact	proximal BF	plain	6	90					
818	OA3	22	7	1	1	FGS	absent	13	10.5-15	0.3	Platform artefact	proximal BF	(crushed)							
819	OA3	22	7	1	0.5	FGS	a third or less	19	15.5-20	1.0	Platform artefact	CSBF right	(wethrd)	3.5	84					
820	OA3	22	7	1		FGS	absent	12	10.5-15	0.6	HS broken piece									
821	OA3	22	7	1		FGS	three quarters or more	13.5	10.5-15	0.9	HS broken piece									
822	OA3	22	8	1	1	FGS	three quarters or more	26.5	25.5-30	2.3	Platform artefact	proximal BF	plain	2						curving dorsal
823	OA3	22	8	1	0.5	FGS	absent	20	15.5-20	1.9	Core broken	ind							uni	fragment, neg scar used as platform
824	OA3	22	8	1		FGS	absent	13	10.5-15	0.2	FF/FP artefact	medial								
825	OA3	22	8	1		FGS	three quarters or more	18.5	15.5-20	1.1	broken piece	flaked?								

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
826	OA3	22	8	1		FGS	absent	10.5	10.5-15	0.2	Heat shatter									
827	OA3	22	8	1		FGS	absent	12.5	10.5-15	0.3	Heat shatter									
828	OA3	22	9	1	1	Silcrete	absent	26	25.5-30	3.9	Platform artefact	flake	plain	16	20	13	18	5		plat is hinge termination - from distal end of flake bo
829	OA3	22	9	1		Silcrete	absent	14	10.5-15	0.5	FF/FP artefact	distal								
830	OA3	22	9	1	1	Silcrete	absent	13	10.5-15	0.2	Platform artefact	proximal BF	plain	1.5						
831	OA3	22	9	1		Silcrete	absent	13	10.5-15	0.1	FF/FP artefact	medial								
832	OA3	22	9	1	1	FGS	absent	11.5	10.5-15	0.1	Platform artefact	proximal BF	plain	1.5						
833	OA3	22	9	1		FGS	three quarters or more	30.5	30.5-35	7.6	Heat shatter									
834	OA3	22	9	1		FGS	absent	19	15.5-20	1.6	Heat shatter									
835	OA3	22	9	1		FGS	absent	14	10.5-15	0.6	broken piece									
836	OA3	22	9	1		FGS	absent	11	10.5-15	0.2	Remnant flaked									
837	OA3	22	9	1		FGS	absent	9.5	05.5-10	0.1	Heat shatter									
838	OA3	22	9	1		FGS	absent	16.5	15.5-20	1.1	Heat shatter									
839	OA3	22	10	1		Quartzite	absent	20	15.5-20	1.6	FF/FP artefact	medial								
840	OA3	22	10	1		FGS	absent	11	10.5-15	0.1	FF/FP artefact	distal								
841	OA3	22	10	1	0.5	Quartzite	a third or less	11	10.5-15	0.2	Platform artefact	CSBF right	(wethrd)	1.5		9		1.5		

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
842	OA3	22	10	1		FGS	absent	13	10.5-15	0.3	broken piece									
843	OA3	22	10	1		FGS	absent	17	15.5-20	0.3	Heat shatter	RF?								
844	OA3	22	10	1		FGS	absent	10.5	10.5-15	0.1	Heat shatter									
845	OA3	22	10	1	0.5	FGS	three quarters or more	23	20.5-25	5.3	Manuport broken	HS nodule								
846	OA3	22	10	1		FGS	a third or less	13.5	10.5-15	0.9	Heat shatter									
847	OA3	22	11	1	0.5	Silcrete	absent	16.5	15.5-20	0.7	Platform artefact	CSBF right	(crushed)			12		1.5		
848	OA3	22	11	1		Quartzite	absent	11	10.5-15	0.3	FF/FP artefact	distal								
849	OA3	22	11	1		FGS	absent	11	10.5-15	0.7	broken piece									
850	OA3	22	11	1		FGS	absent	8	05.5-10	0.0	broken piece									
851	OA3	22	11	1		FGS	three quarters or more	12.5	10.5-15	0.4	not artefact	gravel								
857	OA4	1	2	1		FGS	absent	13	10.5-15	0.2	Heat shatter									
858	OA4	1	3	1	1	FGS	absent	15.5	15.5-20	0.6	Platform artefact	proximal BF	part broken			15		3.5		
859	OA4	1	3	1		FGS	a third or less	25.5	25.5-30	4.5	Heat shatter									
860	OA4	1	3	1		Quartz	a third or less	15.5	15.5-20	0.8	broken piece									
861	OA4	1	4	1	1	FGS	about half	30	25.5-30	3.9	Possible use-wear broken	proximal BF	plain	4.5	93	29	20	5		irreg fine dmge right lateral, rem plat left lateral
862	OA4	1	4	1	0.5	FGS	absent	17.5	15.5-20	1.6	Retouched broken	medial						7		fragment only

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments	
863	OA4	1	4	1		FGS	absent	27	25.5-30	4.6	RF broken piece	partial neg scar									
864	OA4	1	4	1		FGS	absent	17	15.5-20	1.3	Remnant flaked	ventral prox right									
865	OA4	1	4	1		FGS	absent	14	10.5-15	0.3	Remnant flaked										
866	OA4	1	4	1		FGS	a third or less	25	20.5-25	5.8	HS broken piece										
867	OA4	1	5	1		FGS	a third or less	38	35.5-40	7.9	broken piece	HS?									
868	OA4	1	6	1		FGS	absent	16	15.5-20	1.4	Remnant flaked	ventral									
869	OA4	1	6	1		FGS	three quarters or more	14.5	10.5-15	0.3	broken piece										
870	OA4	1	6	1		Quartz	about half	9	05.5-10	0.2	FF/FP artefact	flaked piece									
871	OA4	1	7	1	1	FGS	a third or less	19.5	15.5-20	1.3	Platform artefact	flake	plain	4	75	13.5	15	4			
872	OA4	1	7	1		FGS	three quarters or more	23	20.5-25	3.7	broken piece										
873	OA4	1	7	1		FGS	about half	15	10.5-15	0.7	broken piece										
874	OA4	1	8	1		FGS	absent	14	10.5-15	0.4	Heat shatter										
875	OA4	1	8	1	0.5	Quartzite	a third or less	19	15.5-20	1.1	Platform artefact	CSBF right	(cortex)	3	78	14		2			
876	OA4	1	8	1		Silcrete	absent	11	10.5-15	0.3	FF/FP artefact	medial									
877	OA4	1	9	1		FGS	three quarters or more	10	05.5-10	0.3	FF/FP artefact	medial									
878	OA4	1	10	1		FGS	absent	12	10.5-15	0.6	broken piece										

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments	
879	OA4	1	10	1		FGS	about half	11	10.5-15	0.6	HS broken piece										
880	OA4	1	10	1		FGS	absent	10	05.5-10	0.2	Heat shatter										
881	OA4	1	10	1		FGS	absent	10	05.5-10	0.1	broken piece										
882	OA4	2	2	1		Tuff	about half	67.5	65.5-70	116.9	Heat shatter										irregular blocky piece
883	OA4	2	2	1		FGS	absent	37.5	35.5-40	16.4	broken piece										tabular shape
884	OA4	2	2	1		FGS	absent	23	20.5-25	3.8	Remnant flaked										
885	OA4	2	2	1		FGS	absent	21	20.5-25	2.3	Heat shatter										
886	OA4	2	3	0		FGS	absent	10.5	10.5-15		FF/FP artefact	distal									refits to 890 - new break
887	OA4	2	3	1		FGS	absent	38	35.5-40	14.4	Remnant flaked										
888	OA4	2	3	1		FGS	absent	42.5	40.5-45	12.1	Remnant flaked	partial neg scar									
889	OA4	2	3	1		FGS	absent	13	10.5-15	0.5	Remnant flaked	not HS?									
890	OA4	2	4	1	1	FGS	absent	29	25.5-30	1.7	Platform artefact	flake	crushed			29	12	5			not blade, from rotated core
891	OA4	2	5	1	1	Silcrete	absent	22.5	20.5-25	2.7	Platform artefact	proximal BF	plain	6							
892	OA4	2	5	1		FGS	absent	15	10.5-15	0.4	FF/FP artefact	medial									
893	OA4	2	5	1		FGS	absent	17	15.5-20	1.2	HS broken piece										
894	OA4	2	5	1		FGS	absent	17	15.5-20	0.3	broken piece	RF?									
895	OA4	2	5	1		FGS	a third or less	32	30.5-35	9.9	Heat shatter										provenanced A1

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
896	OA4	2	6	1	0.5	Quartz	absent	15	10.5-15	0.5	Platform artefact	CSBF right	(plain)	3	65			2.5		
897	OA4	2	6	1		FGS	three quarters or more	21	20.5-25	2.1	FF/FP artefact	medial								HS breaks
898	OA4	2	8	1		FGS	three quarters or more	19	15.5-20	0.6	broken piece									
899	OA4	2	8	1		FGS	about half	16.5	15.5-20	0.9	broken piece									
900	OA4	2	8	1		FGS	three quarters or more	9	05.5-10	0.2	broken piece									
901	OA4	2	9	1		FGS	absent	17	15.5-20	0.8	Remnant flaked									
902	OA4	2	11	1		FGS	absent	19.5	15.5-20	1.3	Heat shatter	RF?								
903	OA4	2	11	1	1	Quartzite	absent	16	15.5-20	0.4	FF/FP artefact	medial	v heavily crushed?							
904	OA4	2	12	1		Silcrete	absent	16.5	15.5-20	0.7	FF/FP artefact	distal								
905	OA4	3	2	1	1	FGS	absent	11	10.5-15	0.2	Platform artefact	proximal BF	plain	1	68	(7)	9.5	2		step term
906	OA4	3	4	1	1	Quartzite	absent	31.5	30.5-35	5.2	Platform artefact	proximal BF	ridge	10	25					
907	OA4	3	5	1	1	Silcrete	absent	32	30.5-35	5.5	Platform artefact	proximal BF	broken	3.5	78					
908	OA4	3	5	1	1	FGS	absent	31	30.5-35	4.5	Platform artefact	flake	ridge	5	80	23	22	6.5		skewed to right
909	OA4	3	5	1		FGS	absent	28	25.5-30	6.4	Remnant flaked	negative scar								HS and flaw breaks
910	OA4	3	6	1	1	FGS	absent	19	15.5-20	1.6	Platform artefact	proximal BF	crushed			(18.5)	14.5	5.5		minor heat shatter damage distal
911	OA4	3	6	1	0.5	FGS	absent	21	20.5-25	1.4	Platform artefact	CSBF left								heat shatter break dorsal

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
912	OA4	3	6	1	1	FGS	absent	16	15.5-20	0.5	Platform artefact	proximal BF	scar	3.5	51			3		
913	OA4	3	7	1	1	FGS	absent	23	20.5-25	2.1	Platform artefact	proximal BF	plain	2.5	74	(18)		3.5		
914	OA4	3	8	1	0.5	FGS	absent	25	20.5-25	1.8	Platform artefact	CSBF left	(plain)	4						
915	OA4	3	8	1		FGS	about half	19.5	15.5-20	2.1	Remnant flaked									
916	OA4	3	8	1		FGS	absent	17	15.5-20	0.5	Remnant flaked	ventral								
917	OA4	3	9	1		FGS	absent	11	10.5-15	0.2	FF/FP artefact	distal								
918	OA4	3	9	1		FGS	absent	12	10.5-15	0.4	FF/FP artefact	medial								remnant platform dorsal
919	OA4	3	9	1		FGS	absent	12	10.5-15	0.4	Heat shatter									
920	OA4	3	10	1		FGS	absent	12	10.5-15	0.3	Remnant flaked	medial								
921	OA4	3	10	1		FGS	absent	16	15.5-20	0.5	Remnant flaked									
922	OA4	3	10	1		FGS	absent	12	10.5-15	0.4	broken piece	flaked?								
923	OA4	3	11	1		FGS	absent	16	15.5-20	0.5	broken piece	HS?								
924	OA4	4	2	1		FGS	absent	23.5	20.5-25	1.5	Remnant flaked	medial								heat shatter break most of ventral
925	OA4	4	2	1		FGS	absent	24.5	20.5-25	2.1	Heat shatter									
926	OA4	4	2	1		FGS	absent	17	15.5-20	0.5	Heat shatter									
927	OA4	4	2	1		FGS	absent	12	10.5-15	0.5	Heat shatter									
928	OA4	4	2	1		Quartz	a third or less	24	20.5-25	1.6	FF/FP artefact	flaked piece								poss dorsal

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
929	OA4	4	2	1		Quartz	three quarters or more	15	10.5-15	0.8	not artefact	pebble piece								
930	OA4	4	3	1	0.5	FGS	absent	33	30.5-35	5.7	Retouched broken	proximal left								deep simple notch
931	OA4	4	4	1		FGS	about half	39.5	35.5-40	9.4	Remnant flaked	core frag?								1 poss asym platform
932	OA4	4	4	1		FGS	about half	19.5	15.5-20	2.1	FF/FP artefact	distal								
933	OA4	4	4	1		FGS	three quarters or more	27.5	25.5-30	3.5	Heat shatter									
934	OA4	4	4	1		FGS	a third or less	23	20.5-25	4.9	HS broken piece									
935	OA4	4	4	1		FGS	absent	24	20.5-25	1.5	broken piece	medial?								
936	OA4	4	5	1	0.5	Quartzite	three quarters or more	53.5	50.5-55	56.3	Retouched broken	cobble piece					53	23		steep uni retouch 1 end
937	OA4	4	5	1	0.5	Quartzite	absent	30	25.5-30	5.5	Platform artefact	CSBF right	(crushed)			22.5		9.5		
938	OA4	4	5	1		Silcrete	absent	11	10.5-15	0.1	FF/FP artefact	medial								
939	OA4	4	5	1	0.5	FGS	absent	13	10.5-15	0.2	Platform artefact	CSBF left	(plain)	1.5	62			1.5		
940	OA4	4	5	1	1	FGS	absent	10.5	10.5-15	0.1	Platform artefact	proximal BF	(plain)	1	55	9.5		1.5		
941	OA4	4	5	1		FGS	absent	15	10.5-15	0.3	Remnant flaked									
942	OA4	4	5	1		FGS	absent	13	10.5-15	0.2	Remnant flaked									
943	OA4	4	5	1		FGS	about half	29	25.5-30	5.5	Heat shatter									
944	OA4	4	5	1		FGS	absent	18	15.5-20	0.9	Heat shatter	RF?								

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
945	OA4	4	5	1		FGS	absent	17	15.5-20	0.9	Heat shatter	RF?								
946	OA4	4	5	1		FGS	absent	19	15.5-20	0.7	Heat shatter									
947	OA4	4	5	1		FGS	absent	9	05.5-10	0.1	broken piece									
948	OA4	4	6	1		FGS	absent	26	25.5-30	1.0	FF/FP artefact	distal								
949	OA4	4	6	1	1	FGS	absent	12.5	10.5-15	0.2	Platform artefact	flake	focal	1	86	12	6.5	1		
950	OA4	4	6	1	0.5	FGS	absent	10.5	10.5-15	0.1	Platform artefact	CSBF left	(plain)	2	53	10.5		1		
951	OA4	4	7	1		FGS	absent	12.5	10.5-15	0.3	Remnant flaked									
952	OA4	4	7	1		FGS	absent	12.5	10.5-15	0.2	Heat shatter									
953	OA4	4	7	1		FGS	about half	22	20.5-25	5.6	broken piece									
954	OA4	4	8	1		FGS	absent	15	10.5-15	0.5	FF/FP artefact	distal								bulb split away - formed hinge termination on ventral
955	OA4	4	8	1		FGS	absent	20	15.5-20	1.2	broken piece									
956	OA4	4	8	1		FGS	absent	10	05.5-10	0.2	broken piece									
957	OA4	4	9	1		FGS	absent	17	15.5-20	0.5	Heat shatter	RF?								
958	OA4	4	9	1		FGS	absent	16.5	15.5-20	0.2	Heat shatter	RF?								
960	OA4	4	11	1	1	FGS	absent	16	15.5-20	0.7	Platform artefact	proximal BF	broken		42					
961	OA4	4	11	1		Tuff	absent	11	10.5-15	0.3	broken piece									

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
962	OA4	4	12	1		Sandstone	three quarters or more	17	15.5-20	0.7	not artefact									
963	OA4	5	1	1		FGS	absent	11	10.5-15	0.3	FF/FP artefact	medial								
964	OA4	5	1	1		FGS	about half	18.5	15.5-20	1.1	broken piece	HS?								
965	OA4	5	1	1		FGS	absent	17	15.5-20	0.9	Heat shatter									
966	OA4	5	1	1		FGS	absent	10	05.5-10	0.2	Heat shatter									
967	OA4	5	2	1	1	FGS	absent	19	15.5-20	1.4	Platform artefact	proximal BF	plain	5						
968	OA4	5	2	1	1	FGS	absent	16	15.5-20	1.0	Platform artefact	proximal BF	plain	5	35					
969	OA4	5	2	1		Others	a third or less	28	25.5-30	4.7	broken piece	RF?								
970	OA4	5	3	1	0.5	FGS	absent	27.5	25.5-30	4.8	Core broken	ind							bif	fragment with bifacial platform
971	OA4	5	3	1		FGS	absent	18	15.5-20	1.3	FF/FP artefact	medial								heat shatter breaks
972	OA4	5	4	1		FGS	a third or less	24	20.5-25	3.3	HS broken piece									
973	OA4	5	4	1		FGS	absent	16	15.5-20	0.8	Heat shatter									
974	OA4	5	5	1		FGS	three quarters or more	35	30.5-35	14.8	FF/FP artefact	flaked piece								poss medial but surface irregular
975	OA4	5	5	1		FGS	absent	17	15.5-20	1.1	FF/FP artefact	flaked piece								partial negative scar
976	OA4	5	5	1		FGS	three quarters or more	43.5	40.5-45	20.5	Heat shatter									
977	OA4	5	5	1		FGS	absent	25	20.5-25	3.7	Heat shatter									

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
978	OA4	5	5	1		FGS	absent	53	50.5-55	21.7	RF broken piece	core frag?								poor quality stone, 3 neg scars along one face
979	OA4	5	6	1	1	Quartzite	absent	26	25.5-30	2.1	Platform artefact	proximal BF	plain	2	82					slight rounding dorsal edge of platform
980	OA4	5	6	1		FGS	absent	18	15.5-20	0.8	FF/FP artefact	distal left								
981	OA4	5	6	1		FGS	absent	27	25.5-30	5.3	Heat shatter									
982	OA4	5	6	1		FGS	absent	11.5	10.5-15	0.2	Heat shatter									
983	OA4	5	6	1		S Wood	absent	23.5	20.5-25	3.0	broken piece									
984	OA4	5	7	1	0.5	Silcrete	absent	32.5	30.5-35	3.8	Platform artefact	CSBF right	(plain)	4	88			4		A1
985	OA4	5	7	1	0.5	Quartzite	a third or less	62	60.5-65	75.1	Retouched broken	cobble piece				72	53	23		A2, 1 neg scar, refits to 936 - weighs 131.4g
986	OA4	5	7	1		FGS	a third or less	34.5	30.5-35	9.9	Heat shatter									A3
987	OA4	5	7	1		Silcrete	absent	18	15.5-20	0.9	FF/FP artefact	medial								irregular ventral
988	OA4	5	7	1	1	Silcrete	absent	17	15.5-20	0.7	Platform artefact	proximal BF	crushed					2.5		
989	OA4	5	7	1	1	FGS	absent	14.5	10.5-15	0.5	Platform artefact	proximal BF	ridge							dorsal part broken
990	OA4	5	7	1		FGS	about half	38	35.5-40	24.1	broken piece	RF?								
991	OA4	5	7	1		FGS	absent	16	15.5-20	0.6	Heat shatter									
992	OA4	5	7	1		FGS	about half	15	10.5-15	0.6	broken piece									
993	OA4	5	7	1		FGS	absent	34	30.5-35	8.8	HS broken piece									

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
994	OA4	5	7	1		FGS	absent	12	10.5-15	0.3	broken piece									angular, worn/rounded
995	OA4	5	8	1	0.5	Others	a third or less	24	20.5-25	2.6	Platform artefact	CSBF right	(cortex)	7	63	21		3.5		some grains bit rounded - hard fine sandstone?
996	OA4	5	8	1		S Wood	absent	24.5	20.5-25	3.1	broken piece									
997	OA4	5	8	1		FGS	absent	16	15.5-20	0.6	broken piece									
998	OA4	5	8	1		FGS	absent	16	15.5-20	0.6	Heat shatter									
999	OA4	5	8	1		FGS	absent	13.5	10.5-15	0.3	Heat shatter									
1000	OA4	5	9	1		FGS	absent	21	20.5-25	0.6	FF/FP artefact	medial								
1001	OA4	5	9	1		FGS	absent	13	10.5-15	0.4	Heat shatter									
1003	OA4	5	10	1	1	FGS	absent	15.5	15.5-20	0.7	Platform artefact	flake	plain	3.5	75	8	9.5	6		from sthg 7.5mm thick
1004	OA4	5	10	1	1	FGS	absent	11	10.5-15	0.1	Platform artefact	flake	heavily crushed			10.5	5.5	2		
1005	OA4	5	10	1	0.5	FGS	absent	13	10.5-15	0.4	Platform artefact	CSBF left	(crushed)			13		4.5		
1006	OA4	5	10	1		FGS	absent	12	10.5-15	0.2	FF/FP artefact	medial								elongate
1007	OA4	5	10	1		FGS	a third or less	36	35.5-40	7.8	Heat shatter									
1008	OA4	5	10	1		FGS	absent	19	15.5-20	1.6	Heat shatter									
1009	OA4	5	10	1		FGS	three quarters or more	12	10.5-15	0.3	broken piece									
1010	OA4	5	11	1		FGS	absent	12	10.5-15	0.4	broken piece									

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
1011	OA4	5	11	1		Ferricrete	three quarters or more	12.5	10.5-15	0.5	not artefact	pebble piece								
1012	OA4	5	12	1		FGS	absent	12	10.5-15	0.3	Heat shatter									
1013	OA4	5	12	1		FGS	about half	12.5	10.5-15	0.4	not artefact	pebble piece								
1014	OA4	6	2	1	0.5	Quartz	a third or less	27.5	25.5-30	8.8	Core broken	ind						12.5	ind	heat shatter breaks, new break 1 end
1015	OA4	6	2	1		FGS	a third or less	31	30.5-35	18.7	Remnant flaked									
1016	OA4	6	2	1		FGS	a third or less	26.5	25.5-30	2.6	FF/FP artefact	distal								plunging
1017	OA4	6	3	1		Quartz	absent	15	10.5-15	0.5	FF/FP artefact	flaked piece								
1018	OA4	6	3	1		Tuff	absent	31	30.5-35	6.3	RF broken piece	ind		45	12.5	28				prob dorsal of thick flake?
1019	OA4	6	3	1		FGS	absent	11.5	10.5-15	0.1	FF/FP artefact	medial								
1020	OA4	6	3	1		FGS	absent	10.5	10.5-15	0.1	FF/FP artefact	medial								
1021	OA4	6	3	1		FGS	absent	40.5	40.5-45	6.8	Heat shatter									
1022	OA4	6	3	1		Tuff	a third or less	23.5	20.5-25	6.7	Heat shatter									blocky piece
1023	OA4	6	3	1		FGS	three quarters or more	13.5	10.5-15	0.4	Heat shatter									
1024	OA4	6	3	1		FGS	absent	11.5	10.5-15	0.1	Heat shatter									
1025	OA4	6	3	1		FGS	absent	17	15.5-20	1.0	broken piece									
1026	OA4	6	3	1		FGS	absent	10.5	10.5-15	0.1	broken piece									

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
1027	OA4	6	5	1	0.5	S Wood	absent	29	25.5-30	11.9	Core broken	ind				16	22		uni	1 uni plat, too broken for others
1028	OA4	6	5	1		FGS	absent	22	20.5-25	3.5	FF/FP artefact	medial								heat shatter break, potlid scars
1029	OA4	6	5	1		FGS	absent	16	15.5-20	0.7	Remnant flaked									
1030	OA4	6	5	1		FGS	a third or less	27	25.5-30	6.3	Heat shatter									
1031	OA4	6	5	1		FGS	absent	23.5	20.5-25	2.3	Heat shatter									
1032	OA4	6	5	1		FGS	absent	20	15.5-20	1.3	broken piece									
1033	OA4	6	5	1		Others	about half	16	15.5-20	0.7	not artefact									
1034	OA4	6	6	1	1	FGS	absent	10	05.5-10	0.2	Platform artefact	flake								
1035	OA4	6	6	1	1	FGS	absent	6	05.5-10	0.0	Platform artefact	flake								
1036	OA4	6	6	1		FGS	absent	9	05.5-10	0.4	FF/FP artefact	medial								
1037	OA4	6	6	1	1	FGS	absent	18	15.5-20	1.1	Platform artefact	proximal BF	plain	4.5	72					
1038	OA4	6	6	1	0.5	FGS	absent	31.5	30.5-35	4.1	Core broken	ind							uni	1 uni platform, heat shatter breaks
1039	OA4	6	6	1		FGS	absent	15.5	15.5-20	0.6	FF/FP artefact	medial								
1040	OA4	6	6	1		FGS	a third or less	18.5	15.5-20	1.6	HS broken piece									
1041	OA4	6	6	1		FGS	absent	17.5	15.5-20	1.1	HS broken piece									
1042	OA4	6	6	1		FGS	absent	12	10.5-15	0.3	Heat shatter									

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
1043	OA4	6	6	1		FGS	three quarters or more	14	10.5-15	0.4	broken piece									
1044	OA4	6	6	1		Quartzite	three quarters or more	19	15.5-20	0.3	broken piece									
1045	OA4	6	8	1		FGS	absent	27	25.5-30	4.4	broken piece									
1046	OA4	6	8	1		FGS	absent	11	10.5-15	0.2	Heat shatter									
1047	OA4	6	9	1		FGS	absent	19	15.5-20	1.5	Remnant flaked	proxima?								
1002	OA4	6	10	1	1	Quartzite	absent	12.5	10.5-15	0.2	Platform artefact	proximal BF	crushed							
1048	OA4	6	12	1	1	Quartz	absent	18	15.5-20	0.5	Platform artefact	proximal BF	broken							
1049	OA4	7	2	1	0.5	FGS	absent	22.5	20.5-25	0.7	Platform artefact	CSBF left	(plain)							
1050	OA4	7	3	1	0.5	FGS	absent	18	15.5-20	0.3	Platform artefact	CSBF right	(plain)	1.5	71	17		2.5		does not refit to 1049
1051	OA4	7	3	1		FGS	absent	8	05.5-10	0.3	broken piece									HS break
1052	OA4	7	3	1		FGS	absent	11	10.5-15	0.2	Remnant flaked	dorsal								
1053	OA4	7	3	1		FGS	absent	22	20.5-25	0.8	Heat shatter									
1054	OA4	7	3	1		FGS	absent	16	15.5-20	0.9	Heat shatter									
1055	OA4	7	3	1		FGS	three quarters or more	15	10.5-15	0.2	broken piece									
1056	OA4	7	3	1		FGS	absent	9	05.5-10	0.1	Heat shatter									

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
1057	OA4	7	4	1	1	FGS	three quarters or more	61	60.5-65	88.9	Core	nodule				27	53	31	uni	irreg shape, 1 edge flaked SA, poor quality, abandoned
1058	OA4	7	4	1	0.5	FGS	a third or less	21	20.5-25	1.2	Platform artefact	CSBF right	(plain)	5	55	12		4		from short axis
1059	OA4	7	4	1	1	FGS	absent	12	10.5-15	0.1	Platform artefact	flake	focal	1	56	8	9	1		
1060	OA4	7	4	1	1	FGS	three quarters or more	16.5	15.5-20	0.9	Platform artefact	proximal BF	focal	1.5	92					HS break
1061	OA4	7	4	1		FGS	absent	13	10.5-15	0.2	Remnant flaked	ventral prox								
1062	OA4	7	4	1		FGS	absent	17	15.5-20	0.9	Remnant flaked									
1063	OA4	7	4	1	0.5	FGS	three quarters or more	29	25.5-30	9.2	Platform artefact	CSBF left	(weathered)	3	112					
1064	OA4	7	4	1		FGS	absent	15.5	15.5-20	0.8	broken piece									new fine glossy edge damage
1065	OA4	7	4	1		S Wood	a third or less	20	15.5-20	3.1	broken piece									
1066	OA4	7	5	1	1	FGS	absent	13	10.5-15	0.8	Platform artefact	proximal BF	crushed							hS break
1067	OA4	7	5	1		FGS	absent	12	10.5-15	0.2	FF/FP artefact	medial								hS break
1068	OA4	7	5	1		FGS	absent	12	10.5-15	0.4	Heat shatter									
1069	OA4	7	5	1		FGS	absent	11	10.5-15	0.2	Heat shatter									
1070	OA4	7	5	1		FGS	absent	8	05.5-10	0.1	Heat shatter									
1071	OA4	7	5	1		FGS	absent	10	05.5-10	0.1	Heat shatter	RF?								
1072	OA4	7	5	1		FGS	absent	21	20.5-25	2.5	Heat shatter									

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
1073	OA4	7	5	1		FGS	absent	17	15.5-20	0.4	FF/FP artefact	medial								
1074	OA4	7	6	1		FGS	a third or less	30	25.5-30	3.8	HS broken piece									
1075	OA4	7	7	1		FGS	absent	10.5	10.5-15	0.2	Remnant flaked	dorsal								
1076	OA4	7	7	1		FGS	about half	23	20.5-25	0.7	Heat shatter									
1077	OA4	7	7	1	0.5	FGS	absent	15	10.5-15	0.4	Platform artefact	CSBF right	(part crushed)	1.5	78					dorsal has former hinge terminations
1078	OA4	7	7	1		FGS	absent	12.5	10.5-15	0.2	FF/FP artefact	flaked piece								
1079	OA4	7	8	1		FGS	absent	12	10.5-15	0.1	Remnant flaked	dorsal								
1080	OA4	7	8	1		FGS	three quarters or more	14	10.5-15	0.5	broken piece									
1081	OA4	7	10	1		FGS	absent	15	10.5-15	0.3	Heat shatter									
1082	OA4	7	10	1		FGS	absent	9	05.5-10	0.0	Heat shatter									
1083	OA4	7	10	1	1	Quartz	absent	8.5	05.5-10	0.1	Platform artefact	flake								
1084	OA4	8	3	1	1	FGS	absent	20	15.5-20	0.5	Backed used broken	proximal BF	scar		86					PFA crushed , el p//l BAS1 CL=(16.5) MW=9.5 LMW=7
1085	OA4	8	3	1	1	Silcrete	absent	18.5	15.5-20	1.3	Platform artefact	flake	ridge	3.5	70	16.5	16	3		wide
1086	OA4	8	3	1		Silcrete	absent	11	10.5-15	0.1	FF/FP artefact	medial								
1087	OA4	8	3	1	1	FGS	absent	23.5	20.5-25	2.1	Platform artefact	flake	plain	4.5	72	17.5	28	6		hinge-step term

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
1088	OA4	8	3	1	0.5	FGS	absent	14	10.5-15	0.3	Platform artefact	CSBF right								part of ventral flattened
1089	OA4	8	3	1	1	FGS	absent	12.5	10.5-15	0.2	Platform artefact	flake	plain	3	66	10	9	2.5		
1090	OA4	8	3	1		FGS	absent	15	10.5-15	1.2	Remnant flaked	medial?								
1091	OA4	8	3	1		FGS	absent	8.5	05.5-10	0.1	Remnant flaked	medial?								
1092	OA4	8	3	1		FGS	absent	26	25.5-30	2.6	HS broken piece									
1093	OA4	8	3	1		FGS	a third or less	19.5	15.5-20	1.8	Heat shatter									
1094	OA4	8	3	1		FGS	absent	13.5	10.5-15	0.3	Heat shatter									
1095	OA4	8	3	1		FGS	absent	11.5	10.5-15	0.1	Heat shatter									
1096	OA4	8	4	1		Quartzite	three quarters or more	22	20.5-25	0.8	broken piece									poss distal or broken piece
1097	OA4	8	4	1	1	FGS	absent	13	10.5-15	0.1	Platform artefact	proximal BF	plain	1	71	9	10.5	1		
1098	OA4	8	4	1		Silcrete	absent	10.5	10.5-15	0.2	FF/FP artefact	distal								
1099	OA4	8	4	1		FGS	absent	15	10.5-15	0.3	FF/FP artefact	distal								
1100	OA4	8	4	1		FGS	absent	20	15.5-20	0.8	FF/FP artefact	medial								
1101	OA4	8	4	1		FGS	absent	28	25.5-30	7.3	Heat shatter									
1102	OA4	8	4	1		FGS	absent	27	25.5-30	1.5	Heat shatter									
1103	OA4	8	4	1		FGS	absent	16.5	15.5-20	0.8	Heat shatter									
1104	OA4	8	4	1		FGS	absent	15.5	15.5-20	0.5	Heat shatter									

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments			
1105	OA4	8	4	1		FGS	three quarters or more	14.5	10.5-15	0.3	Heat shatter												
1106	OA4	8	4	1		FGS	absent	12.5	10.5-15	0.2	Heat shatter												
1107	OA4	8	6	1	1	FGS	absent	23	20.5-25	2.1	Platform artefact	proximal BF	plain	6	48		11	6.5					
1108	OA4	8	6	1	1	FGS	absent	24	20.5-25	1.5	Platform artefact	proximal BF	plain	5	31			1.5					
1109	OA4	8	6	1	1	FGS	absent	15	10.5-15	0.5	Platform artefact	flake	plain	3.5	23	9	11	3					
1110	OA4	8	6	1		S Wood	absent	9.5	05.5-10	0.1	FF/FP artefact	distal											
1111	OA4	8	6	1		FGS	absent	30	25.5-30	5.4	Remnant flaked												
1112	OA4	8	6	1		FGS	absent	22	20.5-25	1.1	Heat shatter												
1113	OA4	8	6	1		FGS	absent	22	20.5-25	1.3	Heat shatter												
1114	OA4	8	7	1		FGS	absent	37	35.5-40	5.3	FF/FP artefact	medial										new breaks show dark orange	
1115	OA4	8	7	1	0.5	Quartz	a third or less	18.5	15.5-20	1.3	Platform artefact	CSBF right	(cortex)	7	42								
1116	OA4	8	7	1	0.5	FGS	absent	14	10.5-15	0.3	Platform artefact	CSBF left	(plain)										
1117	OA4	8	7	1		FGS	absent	16	15.5-20	0.4	Remnant flaked	ventral											heat shatter break dorsal
1118	OA4	8	7	1		FGS	absent	14	10.5-15	0.2	FF/FP artefact	medial											
1119	OA4	8	7	1		FGS	a third or less	19.5	15.5-20	0.8	Heat shatter												
1120	OA4	8	7	1		FGS	absent	17	15.5-20	2.1	Heat shatter												

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
1121	OA4	8	8	1		FGS	absent	23	20.5-25	1.5	HS broken piece									
1122	OA4	8	8	1		FGS	absent	10	05.5-10	0.2	Heat shatter	potlid								
1123	OA4	8	8	1		FGS	absent	9	05.5-10	0.1	FF/FP artefact	medial								
1124	OA4	8	9	1	1	FGS	a third or less	28	25.5-30	4.3	Platform artefact	proximal BF	wethrd	5	77					new damage distal break
1125	OA4	8	9	1		FGS	absent	13	10.5-15	0.1	FF/FP artefact	distal right								
1126	OA4	8	9	1		FGS	absent	8	05.5-10	0.2	FF/FP artefact	flaked piece								
1127	OA4	8	9	1		Silcrete	absent	13	10.5-15	0.4	FF/FP artefact	medial								
1128	OA4	8	9	1		FGS	absent	13.5	10.5-15	1.1	Heat shatter									
1129	OA4	8	9	1		FGS	absent	12	10.5-15	0.1	FF/FP artefact									
1130	OA4	8	10	1	1	FGS	absent	16	15.5-20	0.5	Platform artefact	flake	flaw	5	46	7	15	2.5		
1131	OA4	8	10	1		FGS	absent	12.5	10.5-15	0.2	FF/FP artefact	medial								
1132	OA4	8	11	1		FGS	absent	61	60.5-65	18.1	HS broken piece									
1133	OA4	8	12	1	1	FGS	absent	25	20.5-25	1.3	Platform artefact	proximal BF	plain	4	65	11		2.5		hinge, >20 wide
1134	OA4	8	12	1		FGS	absent	12.5	10.5-15	0.6	FF/FP artefact	flaked piece								
1135	OA4	8	12	1		FGS	absent	16	15.5-20	1.3	Heat shatter									
1136	OA4	8	12	1		FGS	absent	14	10.5-15	0.2	Heat shatter									
1137	OA4	8	12	1		FGS	absent	14	10.5-15	1.0	Heat shatter									

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
1138	OA4	9	3	1	1	Quartz	a third or less	26	25.5-30	3.8	Bipolar artefact	flake	bipolar			19	20.5	7.5		2 thin ends
1139	OA4	9	3	1	1	FGS	absent	13.5	10.5-15	0.3	Platform artefact	flake	plain	3	55	11	9	2		
1140	OA4	9	3	1	1	FGS	about half	12	10.5-15	0.2	Platform artefact	flake	plain	2.5		6	10	2		
1141	OA4	9	3	1	1	FGS	absent	11.5	10.5-15	0.1	Platform artefact	proximal BF	focal	2	66					
1142	OA4	9	3	1		FGS	absent	13	10.5-15	2.7	FF/FP artefact	distal								
1143	OA4	9	3	1		FGS	absent	18	15.5-20	1.9	Remnant flaked									
1144	OA4	9	3	1		FGS	absent	17	15.5-20	0.8	Remnant flaked									
1145	OA4	9	3	1		FGS	absent	15	10.5-15	0.5	Heat shatter	RF?								
1146	OA4	9	3	1		FGS	absent	15	10.5-15	1.3	Heat shatter									
1147	OA4	9	3	1		FGS	absent	8.5	05.5-10	0.0	Heat shatter									
1148	OA4	9	4	1		Silcrete	absent	23	20.5-25	2.7	FF/FP artefact	flaked piece								
1149	OA4	9	4	1		Silcrete	absent	15.5	15.5-20	0.5	FF/FP artefact	medial								
1150	OA4	9	4	1		FGS	absent	39.5	35.5-40	12.1	FF/FP artefact	distal left						8		
1151	OA4	9	4	1	0.5	FGS	absent	11.5	10.5-15	0.2	Platform artefact	CSBF right								
1152	OA4	9	4	1		FGS	absent	21	20.5-25	1.7	broken piece									
1153	OA4	9	4	1	0.5	FGS	absent	9.5	05.5-10	0.1	Platform artefact	CSBF right								
1154	OA4	9	4	1		FGS	three quarters or more	11	10.5-15	0.1	broken piece	HS?								

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
1155	OA4	9	5	1		Quartz	absent	22	20.5-25	3.2	broken piece									
1156	OA4	9	5	1	1	FGS	three quarters or more	17.5	15.5-20	1.2	Platform artefact	proximal BF	flaw	2	80					
1157	OA4	9	5	1		FGS	absent	10	05.5-10	0.1	FF/FP artefact	distal left								
1158	OA4	9	5	1		FGS	absent	13	10.5-15	0.1	Remnant flaked									
1159	OA4	9	5	1		FGS	absent	14	10.5-15	1.3	Heat shatter									
1160	OA4	9	5	1		FGS	absent	14	10.5-15	1.1	Heat shatter									
1161	OA4	9	5	1		FGS	absent	10	05.5-10	0.1	Heat shatter									
1162	OA4	9	6	1	1	FGS	absent	23.5	20.5-25	2.2	Platform artefact	proximal BF	broken							
1163	OA4	9	6	1	1	FGS	three quarters or more	21	20.5-25	1.6	Platform artefact	proximal BF	(wethrd)	5	55	12		3.5		
1164	OA4	9	6	1		Silcrete	absent	17	15.5-20	0.5	FF/FP artefact	medial								
1165	OA4	9	6	1	1	Silcrete	absent	11.5	10.5-15	0.1	Platform artefact	proximal BF	part crushed							
1166	OA4	9	6	1		FGS	absent	23	20.5-25	2.4	broken piece									
1167	OA4	9	6	1		FGS	absent	19	15.5-20	1.4	broken piece									
1168	OA4	9	6	1		FGS	about half	16	15.5-20	0.5	broken piece									
1169	OA4	9	6	1		FGS	absent	12	10.5-15	0.5	broken piece									
1170	OA4	9	6	1		FGS	absent	12	10.5-15	0.4	broken piece									

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments	
1171	OA4	9	6	1		FGS	absent	19	15.5-20	1.9	HS broken piece										
1172	OA4	9	7	1	1	FGS	a third or less	33	30.5-35	7.6	Platform artefact	proximal BF	(wethrd)	6	85	32.5		7.5		Hsbreak	
1173	OA4	9	7	1		Silcrete	absent	18.5	15.5-20	1.5	FF/FP artefact	distal									
1174	OA4	9	7	1		Quartz	absent	12.5	10.5-15	0.2	FF/FP artefact	medial									
1175	OA4	9	7	1		FGS	three quarters or more	51	50.5-55	56.2	Manuport broken	nodule broken									
1176	OA4	9	7	1		FGS	absent	12	10.5-15	0.3	broken piece										
1177	OA4	9	7	1		FGS	absent	24.5	20.5-25	2.5	Heat shatter										
1178	OA4	9	7	1		FGS	absent	15.5	15.5-20	0.2	Heat shatter										
1179	OA4	9	8	1	1	FGS	absent	13	10.5-15	0.2	Platform artefact	flake	plain	1.5	58	10	12	1.5			
1180	OA4	9	8	1	1	FGS	absent	12.5	10.5-15	0.1	Platform artefact	flake	crushed			8	11	1			
1181	OA4	9	8	1		FGS	absent	21	20.5-25	0.3	FF/FP artefact	medial									
1182	OA4	9	8	1		FGS	absent	13	10.5-15	0.3	FF/FP artefact	distal									
1183	OA4	9	8	1		FGS	a third or less	24	20.5-25	1.4	Remnant flaked										
1184	OA4	9	8	1		FGS	absent	22	20.5-25	1.1	broken piece	flaked?									
1185	OA4	9	8	1		FGS	a third or less	15	10.5-15	0.5	broken piece										
1186	OA4	9	8	1		FGS	absent	15	10.5-15	0.7	Heat shatter	RF?									
1187	OA4	9	8	1		FGS	absent	12	10.5-15	0.2	Heat shatter										

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
1188	OA4	9	8	1		FGS	three quarters or more	12	10.5-15	0.3	not artefact									
1189	OA4	9	9	1		FGS	absent	29	25.5-30	5.8	Remnant flaked	ventral								
1190	OA4	9	9	1		FGS	absent	13	10.5-15	0.2	Heat shatter									
1191	OA4	9	9	1		Ferricrete	three quarters or more	10	05.5-10	0.2	not artefact									
1192	OA4	10	2	1		FGS	absent	39	35.5-40	5.7	Heat shatter	RF?								
1193	OA4	10	2	1		FGS	absent	16.5	15.5-20	0.7	Heat shatter	RF?								
1194	OA4	10	2	1		FGS	absent	11	10.5-15	0.1	Heat shatter	RF?								
1195	OA4	10	2	1		FGS	absent	25	20.5-25	4.5	Heat shatter									
1196	OA4	10	2	1		FGS	about half	19	15.5-20	2.2	HS broken piece									
1197	OA4	10	2	1		local rock	three quarters or more	14	10.5-15	0.5	not artefact									
1198	OA4	10	3	1	1	Quartz	a third or less	27	25.5-30	6.5	Platform artefact	flake	plain	6.5	65	21	20	10.5		good grey TL qtz, plunging, rem uni plat distal
1199	OA4	10	3	1	0.5	Quartz	three quarters or more	35.5	35.5-40	14.6	Core broken	pebble piece				35		17.5	uni	white milky qtz, 2 cortical plats at 90 degrees - rotated
1200	OA4	10	3	1		FGS	absent	20	15.5-20	1.7	broken piece									
1201	OA4	10	3	1		FGS	a third or less	11	10.5-15	0.2	Heat shatter									

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments		
1202	OA4	10	4	1	1	FGS	absent	40	35.5-40	12.3	Possible use-wear	flake	crushed			39.5	24	11		steep & scalar damage distal, light edge damage laterals		
1203	OA4	10	4	1		FGS	three quarters or more	13.5	10.5-15	0.4	Heat shatter											
1204	OA4	10	4	1		FGS	absent	13.5	10.5-15	0.4	Heat shatter											
1205	OA4	10	5	1	1	FGS	three quarters or more	41	40.5-45	10.6	Platform artefact	proximal BF	plain	3.5	98		41	9				
1206	OA4	10	5	1		FGS	absent	10	05.5-10	0.2	Heat shatter	RF?										
1207	OA4	10	6	1	1	Quartzite	a third or less	32.5	30.5-35	3.1	Platform artefact	proximal BF	cortex	6	76							
1208	OA4	10	6	1	0.5	FGS	a third or less	28	25.5-30	1.8	Platform artefact	CSBF left	(wethrd)	6	62	25.5		4				
1209	OA4	10	6	1	0.5	FGS	absent	12	10.5-15	0.1	Platform artefact	CSBF right		1	71	10		1				
1210	OA4	10	6	1		FGS	three quarters or more	19	15.5-20	1.5	FF/FP artefact	distal									poor quality stone	
1211	OA4	10	6	1		FGS	absent	11	10.5-15	0.2	Remnant flaked											
1212	OA4	10	6	1		FGS	absent	10	05.5-10	0.2	Heat shatter											
1213	OA4	10	7	1	1	FGS	about half	38.5	35.5-40	10.2	Platform artefact	proximal BF	plain	5.5	101	19		9			>33 wide	
1214	OA4	10	7	1	1	FGS	absent	16.5	15.5-20	0.4	Platform artefact	proximal BF	plain	1.5	74	15	11	1			heat shatter break part dorsal	
1215	OA4	10	7	1		FGS	absent	16	15.5-20	0.8	broken piece											
1216	OA4	10	7	1		FGS	three quarters or more	50	45.5-50	22.0	broken piece	RF?									possible platform one side	

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
1217	OA4	10	7	1		FGS	absent	14	10.5-15	0.2	Heat shatter									
1218	OA4	10	7	1		FGS	absent	9.5	05.5-10	0.1	Heat shatter									
1219	OA4	10	8	1	1	Silcrete	about half	31.5	30.5-35	6.5	Platform artefact	proximal BF	broken							edge damage, heat shatter break right ventral
1220	OA4	10	8	1		Silcrete	absent	16	15.5-20	0.7	FF/FP artefact	medial								
1221	OA4	10	8	1	1	FGS	about half	15	10.5-15	0.8	Platform artefact	flake	weathered	4	58	11	10	5		
1222	OA4	10	8	1		FGS	a third or less	37	35.5-40	13.4	Remnant flaked	core frag								2 partial negative scars
1223	OA4	10	8	1		FGS	absent	12.5	10.5-15	0.3	Remnant flaked									
1224	OA4	10	8	1		FGS	about half	47	45.5-50	13.9	Heat shatter									
1225	OA4	10	8	1		FGS	about half	47	45.5-50	5.7	Heat shatter									
1226	OA4	10	8	1		FGS	about half	25	20.5-25	2.0	Heat shatter									
1227	OA4	10	8	1		FGS	absent	28	25.5-30	5.8	Heat shatter									
1228	OA4	10	8	1		FGS	absent	25.5	25.5-30	1.5	Heat shatter									
1229	OA4	10	8	1		FGS	absent	23.5	20.5-25	1.6	Heat shatter									
1230	OA4	10	8	1		FGS	absent	20	15.5-20	0.8	Heat shatter									
1231	OA4	10	8	1		FGS	three quarters or more	18	15.5-20	0.6	Heat shatter									
1232	OA4	10	8	1		Tuff	absent	22	20.5-25	2.1	broken piece	flaked?								

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
1233	OA4	10	8	1		FGS	a third or less	17	15.5-20	2.1	HS broken piece									
1234	OA4	10	8	1		FGS	absent	16	15.5-20	0.8	HS broken piece									
1235	OA4	10	8	1		FGS	absent	11	10.5-15	0.3	Heat shatter	wethrd								
1236	OA4	10	9	1	1	FGS	absent	27.5	25.5-30	6.6	Platform artefact	proximal BF	plain	6	82					
1237	OA4	10	9	1	0.5	FGS	three quarters or more	15.5	15.5-20	1.0	Platform artefact	proximal left	(plain)							
1238	OA4	10	9	1	1	Quartzite	a third or less	19	15.5-20	0.6	Platform artefact	flake	cortex	2	80	9	19	2		
1239	OA4	10	9	1		FGS	absent	16	15.5-20	0.8	FF/FP artefact	medial								heat shatter break part dorsal
1240	OA4	10	9	1		FGS	absent	24	20.5-25	2.7	broken piece	flaked?								
1241	OA4	10	9	1		Tuff	absent	24	20.5-25	4.5	Remnant flaked	negative scars								dorsal or core fragment?
1242	OA4	10	9	1		FGS	absent	16	15.5-20	0.5	Heat shatter									
1243	OA4	10	9	1		FGS	absent	11	10.5-15	0.2	Heat shatter									
1244	OA4	10	10	1	0.5	Silcrete	absent	23	20.5-25	1.7	Platform artefact	CSBF right	(plain)		64	18		6		
1245	OA4	10	10	1		Silcrete	absent	14	10.5-15	0.2	FF/FP artefact	medial								
1246	OA4	10	10	1		FGS	absent	15	10.5-15	0.6	broken piece	flaked?								
1247	OA4	10	10	1		FGS	absent	10.5	10.5-15	0.3	Heat shatter									
1248	OA4	10	10	1	1	Silcrete	absent	9.5	05.5-10	0.1	Platform artefact	proximal BF								

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments	
1249	OA4	10	11	1		FGS	absent	10	05.5-10	0.1	FF/FP artefact	medial								heat shatter break ventral	
1250	OA4	11	2	1		FGS	absent	13	10.5-15	0.3	Heat shatter										
1251	OA4	11	4	1	1	FGS	absent	16	15.5-20	1.4	Platform artefact	proximal BF	focal	1.5	92						
1252	OA4	11	5	1		FGS	absent	14	10.5-15	0.4	Heat shatter										
1253	OA4	11	5	1		FGS	absent	20	15.5-20	0.9	broken piece										
1254	OA4	11	5	1		FGS	absent	12	10.5-15	0.2	broken piece										
1255	OA4	11	5	1		FGS	absent	16	15.5-20	0.5	broken piece										
1256	OA4	11	5	1		FGS	three quarters or more	9	05.5-10	0.2	broken piece										
1257	OA4	11	5	1		FGS	absent	9	05.5-10	0.1	broken piece										
1258	OA4	11	6	1	0.5	S Wood	absent	31	30.5-35	5.8	Platform artefact	CSBF left	(plain)	8.5		25.5		7			
1259	OA4	11	6	1		FGS	absent	14	10.5-15	0.3	FF/FP artefact	medial									
1260	OA4	11	8	1	0.5	FGS	absent	21	20.5-25	0.8	Platform artefact	CSBF left	(plain)	3		20		4			
1261	OA4	11	8	1	0.5	FGS	a third or less	18	15.5-20	0.9	Platform artefact	CSBF right	(irregular)			16		3			
1262	OA4	11	9	1		FGS	absent	16.5	15.5-20	0.9	Heat shatter										
1263	OA4	11	9	1		FGS	absent	12	10.5-15	0.5	broken piece										
1264	OA4	11	9	1		Tuff	absent	17	15.5-20	2.4	broken piece										
1265	OA4	11	9	1		FGS	absent	14	10.5-15	0.6	FF/FP artefact	medial									

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
1266	OA4	11	10	1	1	FGS	absent	19	15.5-20	1.0	Platform artefact	proximal BF	broken			12	16.5	3		
1267	OA4	11	11	1	1	FGS	absent	10	05.5-10	0.2	Platform artefact	flake	heavily crushed			10	7	2.5		strong hinge bulb
1268	OA4	11	11	1		FGS	absent	8	05.5-10	0.1	FF/FP artefact	distal								
1269	OA4	12	2	1		Tuff	absent	16.5	15.5-20	1.7	HS broken piece									
1270	OA4	12	3	1	1	FGS	about half	25.5	25.5-30	3.7	Platform artefact	flake	crushed			25.5	18	8.5		
1271	OA4	12	3	1		Quartzite	absent	20	15.5-20	1.6	FF/FP artefact	medial								
1272	OA4	12	3	1		FGS	absent	14	10.5-15	0.9	FF/FP artefact	flaked piece								
1273	OA4	12	3	1		FGS	absent	11	10.5-15	0.2	FF/FP artefact	flaked piece								
1274	OA4	12	3	1		FGS	absent	9.5	05.5-10	0.1	Remnant flaked									
1275	OA4	12	3	1		FGS	absent	16	15.5-20	0.5	Heat shatter									
1276	OA4	12	3	1		FGS	absent	14	10.5-15	1.2	Heat shatter									
1277	OA4	12	3	1		FGS	absent	13	10.5-15	0.2	Heat shatter									
1278	OA4	12	3	1		FGS	absent	19	15.5-20	0.8	broken piece									new break - 2 pcs refit
1279	OA4	12	3	1		FGS	absent	15.5	15.5-20	0.8	broken piece									
1280	OA4	12	5	1		FGS	absent	20.5	20.5-25	1.8	FF/FP artefact	medial								
1281	OA4	12	5	1		Tuff	absent	21.5	20.5-25	1.6	Remnant flaked									
1282	OA4	12	5	1		FGS	absent	13	10.5-15	0.7	Remnant flaked									

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments		
1283	OA4	12	5	1		FGS	absent	9	05.5-10	0.3	Remnant flaked											
1284	OA4	12	5	1		FGS	three quarters or more	35	30.5-35	5.3	Heat shatter											
1285	OA4	12	5	1		FGS	a third or less	17	15.5-20	0.6	Heat shatter											
1286	OA4	12	5	1		FGS	a third or less	16	15.5-20	0.4	Heat shatter											
1287	OA4	12	5	1		FGS	three quarters or more	22.5	20.5-25	1.1	broken piece											
1288	OA4	12	6	1		FGS	three quarters or more	17	15.5-20	0.7	Heat shatter											
1289	OA4	12	6	1		FGS	absent	16	15.5-20	0.6	Heat shatter											
1290	OA4	12	6	1		FGS	about half	11	10.5-15	0.4	Heat shatter											
1291	OA4	12	7	1	1	FGS	about half	27	25.5-30	6.4	FF/FP artefact	distal	broken			19		8				
1292	OA4	12	7	1		FGS	a third or less	36	35.5-40	7.4	Heat shatter											
1293	OA4	12	7	1		FGS	absent	11	10.5-15	0.2	Heat shatter											
1294	OA4	12	7	1		FGS	absent	15	10.5-15	0.6	broken piece											
1295	OA4	12	7	1		Ferricrete	three quarters or more	12	10.5-15	0.3	not artefact											
1296	OA4	12	8	1		FGS	three quarters or more	42	40.5-45	12.6	Heat shatter											
1297	OA4	12	8	1	1	FGS	absent	22	20.5-25	1.1	Platform artefact	proximal BF	(ridge)									heat shatter break left dorsal

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments	
1298	OA4	12	9	1		FGS	absent	21	20.5-25	2.1	Heat shatter										
1299	OA4	12	9	1		FGS	absent	10	05.5-10	0.2	FF/FP artefact	medial									potlid scar dorsal
1300	OA4	12	10	1	1	Tuff	about half	20	15.5-20	2.0	Platform artefact	proximal BF	plain	3	70						
1301	OA4	12	10	1	1	FGS	absent	19	15.5-20	0.4	Platform artefact	proximal BF	part crushed								
1302	OA4	12	10	1	0.5	FGS	three quarters or more	19	15.5-20	1.3	Platform artefact	CSBF right	(weathered)	3	75						
1303	OA4	12	10	1		FGS	absent	14	10.5-15	0.5	Remnant flaked										
1304	OA4	12	10	1		FGS	three quarters or more	13	10.5-15	0.2	broken piece										
1305	OA4	12	11	1	1	FGS	absent	9.5	05.5-10	0.1	Platform artefact	proximal BF									
1306	OA4	13	3	1		FGS	absent	13	10.5-15	1.4	Remnant flaked										
1307	OA4	13	3	1		FGS	about half	24	20.5-25	2.8	not artefact	wethrd HS									
1308	OA4	13	3	1		FGS	three quarters or more	14.5	10.5-15	0.7	Heat shatter										
1309	OA4	13	4	1		FGS	absent	15	10.5-15	0.7	Remnant flaked										
1310	OA4	13	4	1		FGS	absent	10	05.5-10	0.2	Remnant flaked										
1311	OA4	13	4	1		FGS	absent	15.5	15.5-20	0.6	Heat shatter										
1312	OA4	13	5	1		FGS	absent	15	10.5-15	0.6	FF/FP artefact	medial									
1313	OA4	13	5	1		FGS	three quarters or more	55.5	55.5-60	38.6	HS broken piece										

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments	
1314	OA4	13	5	1		Tuff	absent	23	20.5-25	3.4	broken piece										
1315	OA4	13	6	1		Quartz	absent	17	15.5-20	1.1	FF/FP artefact	distal									milky quartz
1316	OA4	13	6	1	1	FGS	absent	12.5	10.5-15	0.1	Platform artefact	proximal BF	broken								
1317	OA4	13	6	1		FGS	absent	18	15.5-20	1.7	Heat shatter										
1318	OA4	13	6	1		Ferricrete	three quarters or more	15	10.5-15	0.9	not artefact										
1319	OA4	13	7	1		Others	about half	43	40.5-45	25.7	broken piece	cobble piece									not siliceous, OK for hearthstone?
1320	OA4	13	7	1		FGS	a third or less	20.5	20.5-25	1.5	Heat shatter										
1321	OA4	13	7	1		FGS	a third or less	17.5	15.5-20	1.8	broken piece										
1322	OA4	13	8	1	0.5	Silcrete	absent	29	25.5-30	7.5	Platform artefact	CSBF left	(plain)	4	76	21.5	7				
1323	OA4	13	8	1		FGS	absent	18	15.5-20	0.6	FF/FP artefact	distal									
1324	OA4	13	8	1		FGS	absent	23.5	20.5-25	0.9	Heat shatter										
1325	OA4	13	8	1		FGS	absent	15.5	15.5-20	1.0	Heat shatter	RF?									
1326	OA4	13	9	1		FGS	three quarters or more	23.5	20.5-25	2.0	broken piece										
1327	OA4	13	9	1		FGS	absent	13.5	10.5-15	0.1	FF/FP artefact	medial									fine damage convex edge, potlid scars
1328	OA4	13	9	1		FGS	absent	10	05.5-10	0.1	Heat shatter										
1329	OA4	13	9	1		local rock	about half	12.5	10.5-15	0.2	not artefact										

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
1330	OA4	13	10	1	0.5	FGS	a third or less	25.5	25.5-30	2.1	Platform artefact	CSBF left	(wethd)	2	73	18		4		
1331	OA4	13	10	1	1	FGS	absent	9.5	05.5-10	0.2	Platform artefact	proximal BF								
1332	OA4	13	10	1		FGS	absent	18	15.5-20	1.7	FF/FP artefact	flaked piece								ventral with vertical ridge - CSBF? Bipolar?
1333	OA4	13	10	1		FGS	a third or less	28	25.5-30	2.9	Heat shatter									
1334	OA4	13	11	1	1	Silcrete	absent	42	40.5-45	27.0	Bipolar core	ind				38	35.5	12	bipolar	2 thin ends, 1 v battered, other newer
1335	OA4	13	11	1		FGS	absent	10	05.5-10	0.1	Remnant flaked									
1336	OA4	13	12	1		FGS	absent	27	25.5-30	4.6	Remnant flaked									new break - 2 pcs refit
1337	OA4	14	2	1		FGS	a third or less	38	35.5-40	20.1	broken piece									
1338	OA4	14	2	1		FGS	about half	31	30.5-35	6.0	broken piece									poss CSBF right with flattened ventral
1339	OA4	14	2	1		FGS	absent	18.5	15.5-20	0.8	broken piece	medial?								
1340	OA4	14	2	1		FGS	about half	16.5	15.5-20	0.7	Heat shatter									
1341	OA4	14	3	1	1	FGS	a third or less	30.5	30.5-35	4.5	Platform artefact	proximal BF	scar+wethrd	5	65	24		4		
1342	OA4	14	3	1		FGS	absent	26	25.5-30	2.9	FF/FP artefact	medial								heat shatter break removed platform
1343	OA4	14	4	1	0.5	FGS	a third or less	34	30.5-35	11.1	Retouched broken	medial	removed					10.5		steep R/ dorsal to ventral at prox end
1344	OA4	14	4	1	1	FGS	absent	26	25.5-30	3.6	Platform artefact	proximal BF	ridge							

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments		
1345	OA4	14	4	1		Tuff	absent	15	10.5-15	0.5	Heat shatter											
1346	OA4	14	5	1		FGS	absent	32	30.5-35	5.1	Heat shatter											
1347	OA4	14	5	1		FGS	absent	13	10.5-15	0.7	Remnant flaked											
1348	OA4	14	6	1	1	FGS	absent	29	25.5-30	10.7	Core	ind				14.5	20	18	uni	2 uni plats, opp but not opposed, last is anvil rested		
1349	OA4	14	6	1	0.5	FGS	absent	25	20.5-25	2.7	Possible use-wear broken	medial						7		irregular damage acute margin		
1350	OA4	14	6	1		FGS	a third or less	19.5	15.5-20	2.5	broken piece											
1351	OA4	14	6	1		FGS	a third or less	36.5	35.5-40	20.6	Heat shatter											
1352	OA4	14	7	1		Silcrete	absent	28	25.5-30	4.6	FF/FP artefact	flaked piece										
1353	OA4	14	7	1		FGS	absent	20.5	20.5-25	0.6	FF/FP artefact	medial										
1354	OA4	14	7	1		FGS	absent	15	10.5-15	0.6	FF/FP artefact	flaked piece									same stone as core 1348	
1355	OA4	14	8	1		FGS	a third or less	24.5	20.5-25	3.3	Remnant flaked											
1356	OA4	14	8	1		FGS	absent	11	10.5-15	0.4	Heat shatter	RF?										
1357	OA4	14	8	1		FGS	a third or less	10.5	10.5-15	0.2	Heat shatter											
1358	OA4	14	9	1	0.5	Silcrete	a third or less	20	15.5-20	1.7	Platform artefact	CSBF right	(plain)	5	65			3.5		rough version of 1363		
1359	OA4	14	10	1		FGS	about half	32	30.5-35	7.5	Remnant flaked	partial neg scar										
1360	OA4	14	10	1	1	FGS	absent	29	25.5-30	3.6	Platform artefact	proximal BF	(plain)	4	78			6				

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
1361	OA4	14	10	1		FGS	absent	19	15.5-20	0.4	FF/FP artefact	medial								
1362	OA4	14	11	1		FGS	absent	29	25.5-30	5.6	Heat shatter									
1363	OA4	14	11	1	1	Silcrete	absent	17.5	15.5-20	0.7	Platform artefact	flake	plain	3	63	14	12.5	2		
1364	OA4	14	11	1		FGS	absent	18	15.5-20	0.9	FF/FP artefact	medial						5		
1365	OA4	14	11	1		FGS	absent	11	10.5-15	0.2	broken piece									very glossy irreg fracture
1366	OA4	14	12	1	1	FGS	absent	13	10.5-15	0.2	Platform artefact	flake	plain	2	72	7.5	11	1.5		
1367	OA4	15	2	1		FGS	about half	31	30.5-35	7.9	Remnant flaked									
1368	OA4	15	3	1	1	FGS	absent	28	25.5-30	2.9	Platform artefact	proximal BF	plain	4.5	71	(25)	16	4		step termination, irreg fracture surface
1369	OA4	15	3	1	1	FGS	absent	26	25.5-30	2.3	Platform artefact	flake	plain	2		25	18	6		curving dorsal
1370	OA4	15	3	1	1	FGS	absent	8	05.5-10	0.0	Platform artefact	flake								
1371	OA4	15	3	1		FGS	three quarters or more	16	15.5-20	0.5	FF/FP artefact	medial								small potlid scars ventral
1372	OA4	15	3	1		FGS	a third or less	23.5	20.5-25	6.3	HS broken piece									
1373	OA4	15	3	1		FGS	absent	20	15.5-20	1.3	broken piece									
1374	OA4	15	4	1		S Wood	absent	20	15.5-20	1.9	FF/FP artefact	medial								flaked p//l to fossil grain
1375	OA4	15	4	1	0.5	FGS	absent	12	10.5-15	0.4	Platform artefact	CSBF right	(plain)	4		9	5			
1376	OA4	15	4	1		FGS	absent	15	10.5-15	0.2	Remnant flaked									

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
1377	OA4	15	4	1		FGS	absent	18	15.5-20	0.5	Heat shatter									
1378	OA4	15	4	1		FGS	absent	12	10.5-15	0.3	Heat shatter									
1379	OA4	15	4	1		FGS	absent	11	10.5-15	0.2	Heat shatter									
1380	OA4	15	4	1		Ferricrete	absent	9	05.5-10	0.2	not artefact									good red colour but no signs of use
1381	OA4	15	5	1	1	FGS	absent	43	40.5-45	4.9	Platform artefact	proximal BF	ridge	4.5	74	34	25	5		right prox lateral broken
1382	OA4	15	5	1		Silcrete	absent	29	25.5-30	4.1	FF/FP artefact	distal								
1383	OA4	15	5	1		FGS	absent	21.5	20.5-25	1.8	FF/FP artefact	distal								
1384	OA4	15	5	1		FGS	absent	12	10.5-15	0.1	Remnant flaked									
1385	OA4	15	5	1		FGS	absent	15	10.5-15	0.2	Heat shatter									
1386	OA4	15	6	1		FGS	a third or less	37	35.5-40	32.4	broken piece									
1387	OA4	15	6	1	1	Others	absent	14	10.5-15	0.4	Platform artefact	flake	plain	3	70	11	11	2.5		dorsal more weathered than ventral
1388	OA4	15	6	1	1	FGS	absent	10	05.5-10	0.1	Platform artefact	flake								
1389	OA4	15	6	1		FGS	absent	13	10.5-15	0.2	Heat shatter									bit worn
1390	OA4	15	7	1		FGS	absent	14	10.5-15	0.8	Remnant flaked									
1391	OA4	15	9	1		FGS	absent	13	10.5-15	1.0	HS broken piece									
1392	OA4	15	9	1		FGS	absent	11	10.5-15	0.2	Remnant flaked									

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments		
1393	OA4	15	9	1		FGS	absent	10.5	10.5-15	0.2	Heat shatter											
1394	OA4	15	10	1		FGS	absent	12	10.5-15	1.0	Heat shatter											
1395	OA4	15	11	1	1	FGS	absent	14.5	10.5-15	0.2	Platform artefact	flake	plain	1	70	6	13	1				
1396	OA4	15	12	1		FGS	absent	14.5	10.5-15	0.2	Heat shatter	RF?										
1431	OA4	16		1		FGS	three quarters or more	18	15.5-20	1.0	FF/FP artefact	medial									clean-up	
1432	OA4	16		1		FGS	a third or less	22	20.5-25	2.7	FF/FP artefact	flaked piece									clean-up, neg scar 1 face	
1433	OA4	16		1		Silcrete	absent	16	15.5-20	0.6	FF/FP artefact	flaked piece									clean-up	
1434	OA4	16		1		FGS	about half	11	10.5-15	0.2	Heat shatter										clean-up	
1397	OA4	16	3	1	1	FGS	absent	13	10.5-15	1.0	Platform artefact	flake	crushed			14.5	20	3				
1398	OA4	16	3	1		FGS	absent	22	20.5-25	2.2	FF/FP artefact	medial						9			HS breaks, new damage left lateral	
1399	OA4	16	3	1		FGS	absent	12	10.5-15	0.2	FF/FP artefact	distal										
1400	OA4	16	3	1		FGS	absent	12	10.5-15	0.2	Heat shatter	RF?										
1401	OA4	16	3	1	0.5	FGS	absent	8.5	05.5-10	0.0	Platform artefact	CSBF right										
1402	OA4	16	4	1	0.5	FGS	three quarters or more	25.5	25.5-30	2.4	Platform artefact	CSBF right										
1403	OA4	16	4	1		Quartzite	about half	21	20.5-25	2.3	FF/FP artefact	flaked piece										
1404	OA4	16	4	1		FGS	absent	12	10.5-15	0.1	FF/FP artefact	medial										

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
1405	OA4	16	4	1		Others	absent	15.5	15.5-20	0.2	not artefact									
1406	OA4	16	5	1		FGS	absent	12.5	10.5-15	0.4	FF/FP artefact	medial								new damage a bit like backing
1407	OA4	16	5	1	1	FGS	absent	8	05.5-10	0.1	Platform artefact	flake								
1408	OA4	16	5	1	1	FGS	absent	8	05.5-10	0.2	Platform artefact	proximal BF								
1409	OA4	16	6	1	0.5	FGS	absent	18	15.5-20	1.1	Platform artefact	CSBF right		78						
1410	OA4	16	6	1		FGS	a third or less	32.5	30.5-35	1.6	FF/FP artefact	medial								poor quality irregular surface, HS breaks
1411	OA4	16	6	1		FGS	absent	16	15.5-20	1.6	Heat shatter	RF?								
1412	OA4	16	6	1		FGS	absent	12	10.5-15	0.3	Heat shatter									
1413	OA4	16	6	1		Tuff	a third or less	15	10.5-15	0.6	Heat shatter									
1414	OA4	16	7	1		FGS	absent	15	10.5-15	1.6	FF/FP artefact	distal								remnant platform
1415	OA4	16	7	1		FGS	about half	16	15.5-20	1.0	FF/FP artefact	medial								
1416	OA4	16	7	1		FGS	absent	14	10.5-15	0.4	FF/FP artefact	medial								HS breaks
1417	OA4	16	7	1		Tuff	absent	19	15.5-20	1.5	Heat shatter									
1418	OA4	16	7	1		FGS	a third or less	12	10.5-15	0.2	Heat shatter									
1420	OA4	16	8	1	1	FGS	absent	20.5	20.5-25	0.9	FF/FP artefact	distal	heavily crushed			16	13	2		
1421	OA4	16	8	1	0.5	FGS	absent	21	20.5-25	0.9	Platform artefact	CSBF left	(plain)	3.5	70	19		6		damage convex lateral

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
1422	OA4	16	8	1		FGS	absent	19	15.5-20	0.5	Remnant flaked									
1423	OA4	16	8	1		FGS	absent	9.5	05.5-10	0.1	Remnant flaked									
1424	OA4	16	8	1		FGS	absent	17	15.5-20	0.7	Heat shatter									
1425	OA4	16	8	2		various	absent		11-15	0.9	not artefact									
1426	OA4	16	10	1		FGS	absent	19	15.5-20	0.7	FF/FP artefact	medial								HS breaks
1427	OA4	16	10	1		FGS	three quarters or more	18	15.5-20	1.3	Heat shatter	RF?								
1428	OA4	16	10	1		FGS	absent	9.5	05.5-10	0.1	Heat shatter									
1429	OA4	16	12	1		FGS	absent	14	10.5-15	0.5	FF/FP artefact	distal right								
1430	OA4	16	12	1		FGS	absent	10.5	10.5-15	0.1	Heat shatter									
1663	OA5			1	1	FGS	three quarters or more	70.5	70.5-75	164.8	Core	nodule				49	40	47.5	uni	nodule irreg shape, flakes off 1 edge LA, abandnd poor
1435	OA5	1	4	1	0.5	FGS	a third or less	19.5	15.5-20	1.5	Platform artefact	CSBF right	(wethrd)	8	38	15		6.5		partial HS surface dorsal before flake struck?
1436	OA5	1	5	1	1	Tuff	absent	22	20.5-25	1.3	Platform artefact	proximal BF	plain	2.5	63					weathered
1437	OA5	1	8	1		FGS	three quarters or more	20.5	20.5-25	1.6	Heat shatter									neg scar dorsal v wethrd natural
1438	OA5	1	9	1		Tuff	a third or less	27	25.5-30	14.2	broken piece									

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
1439	OA5	1	9	1		FGS	three quarters or more	24	20.5-25	1.9	Heat shatter									natural small wethrd neg from acute "platform"
1440	OA5	1	9	1		FGS	absent	13	10.5-15	0.4	FF/FP artefact	distal								
1441	OA5	1	10	1	0.5	Silcrete	a third or less	21.5	20.5-25	1.5	Platform artefact	CSBF mid	(cortex)							
1442	OA5	1	11	1	0.5	S Wood	absent	19	15.5-20	0.5	Platform artefact	CSBF left	(plain)	2.5	64					
1443	OA5	2	2	1		FGS	a third or less	39	35.5-40	5.7	Heat shatter						26			from tabular angular wethrd rock >31x26x?
1444	OA5	2	2	1	1	FGS	three quarters or more	11	10.5-15	0.3	Platform artefact	flake	wethrd	2	62	9	9	2		
1445	OA5	2	3	1	1	Others	absent	21	20.5-25	1.7	Platform artefact	flake	plain	3.5	82	15	16	5.5		minor damage left platform
1446	OA5	2	3	1		Others	absent	41.5	40.5-45	8.2	Heat shatter	RF?								
1447	OA5	2	3	1		Silcrete	a third or less	28	25.5-30	4.8	Remnant flaked									
1448	OA5	2	3	1	0.5	FGS	a third or less	20	15.5-20	1.3	Platform artefact	CSBF left	(wethrd)	3	77	16		3.5		
1449	OA5	2	3	1		FGS	three quarters or more	13	10.5-15	0.3	broken piece									
1450	OA5	2	4	1		FGS	absent	37.5	35.5-40	6.5	FF/FP artefact	medial								dorsal surface, opp face compressed ventral
1451	OA5	2	4	1	0.5	FGS	a third or less	20.5	20.5-25	2.3	Platform artefact	CSBF left	(wethrd)	8	73					
1452	OA5	2	4	1		FGS	a third or less	18.5	15.5-20	1.2	Heat shatter									

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
1453	OA5	2	4	1	1	FGS	absent	19.5	15.5-20	0.7	Platform artefact	proximal BF								most of ventral split away
1454	OA5	2	4	1		Silcrete	absent	22	20.5-25	2.1	FF/FP artefact	medial								
1455	OA5	2	5	1	1	FGS	absent	23	20.5-25	2.6	Platform artefact	proximal BF	ridge	6	57	20		2.5		
1456	OA5	2	5	1	1	FGS	absent	11.5	10.5-15	0.2	Platform artefact	proximal BF	part crushed							
1457	OA5	2	5	1		FGS	absent	8	05.5-10	0.0	FF/FP artefact	distal								
1458	OA5	2	5	1		Others	absent	28	25.5-30	2.8	FF/FP artefact	medial								
1459	OA5	2	6	1		Quartzite	absent	37	35.5-40	14.1	FF/FP artefact	medial?								grey shiny bit banded, varied quality
1460	OA5	2	6	1		Silcrete	absent	23	20.5-25	3.3	FF/FP artefact	medial								
1461	OA5	2	6	1		FGS	absent	18	15.5-20	0.7	FF/FP artefact	medial left								
1462	OA5	2	6	1		FGS	a third or less	9	05.5-10	0.1	FF/FP artefact	medial								like v fine tuff
1463	OA5	2	6	1		FGS	absent	18	15.5-20	0.6	FF/FP artefact	distal								
1464	OA5	2	6	1		FGS	absent	13	10.5-15	0.2	FF/FP artefact	distal								
1465	OA5	2	6	1		FGS	absent	12	10.5-15	0.3	Remnant flaked									
1466	OA5	2	6	1		FGS	absent	10	05.5-10	0.1	Remnant flaked									
1467	OA5	2	6	1		FGS	about half	30	25.5-30	3.4	Heat shatter									
1468	OA5	2	7	1	1	FGS	absent	33.5	30.5-35	14.1	Platform artefact	proximal BF	broken							part ventral split flaw surface
1469	OA5	2	7	1	1	FGS	absent	10.5	10.5-15	0.2	Platform artefact	proximal BF	focal	1.5	71					

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments	
1470	OA5	2	7	1		Others	absent	28	25.5-30	1.7	Remnant flaked										
1471	OA5	2	7	1	1	FGS	absent	23	20.5-25	1.7	FF/FP artefact	medial	broken								FGS with dark rough granular band
1472	OA5	2	7	1		FGS	absent	22	20.5-25	0.5	FF/FP artefact	distal				(22)	5.5	3			v elongate, hinge termination
1473	OA5	2	7	1		FGS	absent	14	10.5-15	0.6	FF/FP artefact	medial									
1474	OA5	2	7	1		FGS	a third or less	18	15.5-20	1.7	Heat shatter										
1475	OA5	3	3	1		Silcrete	absent	25	20.5-25	1.9	FF/FP artefact	medial						5			
1476	OA5	3	3	1	0.5	FGS	absent	39.5	35.5-40	17.0	Retouched broken	medial				37		11.5			large partial scar distal, small damage, poss UW
1477	OA5	3	3	1		FGS	absent	23	20.5-25	3.0	FF/FP artefact	medial									remnant platform dorsal ridge
1478	OA5	3	4	1		FGS	absent	17	15.5-20	0.6	FF/FP artefact	distal									damaged, worn
1479	OA5	3	4	1	0.5	FGS	absent	13	10.5-15	0.2	Platform artefact	CSBF right	(plain)	1	64						
1480	OA5	3	4	1	0.5	FGS	absent	14	10.5-15	0.4	Retouched broken	medial									frag only, complex notch
1481	OA5	3	5	1		FGS	absent	10	05.5-10	0.1	FF/FP artefact	distal									
1482	OA5	3	5	1		FGS	a third or less	18	15.5-20	1.4	HS broken piece										
1483	OA5	3	5	1		FGS	three quarters or more	16	15.5-20	0.5	broken piece										
1484	OA5	3	6	1	1	Quartzite	a third or less	38.5	35.5-40	6.3	Platform artefact	proximal BF	plain	3.5	60	31	17	7.5			step termination,

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
																				cortex right lateral
1485	OA5	3	6	1		FGS	about half	15	10.5-15	0.5	FF/FP artefact	medial								
1486	OA5	3	7	1	1	FGS	absent	30.5	30.5-35	5.0	Platform artefact	flake	ridge	5	77	22	29	4		
1487	OA5	3	7	1		FGS	absent	16	15.5-20	0.4	RF broken piece									
1488	OA5	3	7	1		FGS	three quarters or more	19	15.5-20	1.6	broken piece									
1489	OA5	3	7	1		FGS	about half	17	15.5-20	0.9	HS broken piece									
1490	OA5	3	7	1		Others	three quarters or more	18	15.5-20	0.8	not artefact									new flake
1491	OA5	3	8	1	1	FGS	absent	18	15.5-20	0.6	Platform artefact	proximal BF	broken							
1492	OA5	3	8	1	1	FGS	absent	6	05.5-10	0.0	Platform artefact	proximal BF								
1493	OA5	3	8	1		FGS	absent	10	05.5-10	0.3	Heat shatter									
1494	OA5	3	8	1		Tuff	absent	15	10.5-15	0.3	FF/FP artefact	distal								whitish v weathered
1495	OA5	3	9	1	1	FGS	a third or less	37	35.5-40	25.9	Core	ind				23	25	22	uni	1 uni plat, were 2 others - rotated
1496	OA5	3	10	1		Quartz	about half	26.5	25.5-30	3.4	FF/FP artefact	flaked piece								
1497	OA5	3	11	1		FGS	absent	25	20.5-25	1.4	Heat shatter	RF?								
1498	OA5	4	2	1	1	Quartzite	absent	20.5	20.5-25	1.7	Platform artefact	flake	plain	6	47	14.5	19.5	3		grey-brown fine even, soapy feel, flaw across plat surf

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
1499	OA5	4	2	1		FGS	absent	31	30.5-35	1.2	FF/FP artefact	distal				(31)	8	4		
1500	OA5	4	3	1	0.5	Quartzite	about half	33	30.5-35	10.3	Retouched broken	medial								uni R/ from cortex dorsal removed part ventral
1501	OA5	4	3	1		FGS	absent	18	15.5-20	0.7	FF/FP artefact	medial								HS damage
1502	OA5	4	3	1	0.5	FGS	absent	17	15.5-20	0.3	Platform artefact	CSBF left	(focal)	1.5	93	15		1		
1503	OA5	4	3	1		local rock	three quarters or more	37	35.5-40	10.6	not artefact									coated with limonite
1504	OA5	4	4	1	1	FGS	absent	19	15.5-20	1.5	Platform artefact	proximal BF	plain	5.5						
1505	OA5	4	4	1	0.5	FGS	absent	17	15.5-20	0.7	Platform artefact	proximal right	broken	3	66					
1506	OA5	4	4	1		FGS	three quarters or more	16	15.5-20	0.8	FF/FP artefact	distal								
1507	OA5	4	4	1		Quartz	absent	12	10.5-15	0.5	FF/FP artefact	medial								
1508	OA5	4	5	1	1	Others	a third or less	39	35.5-40	7.7	Platform artefact	flake	wethrd	12	52	27	27	5		dark grey fine sparkles, slightly banded
1509	OA5	4	5	1		Quartzite	absent	48	45.5-50	13.9	FF/FP artefact	medial								poss browner paler coarser vsn of 1508
1510	OA5	4	5	1		Quartzite	absent	34	30.5-35	18.4	FF/FP artefact	flaked piece								dark grey fine
1511	OA5	4	6	1		Others	three quarters or more	25	20.5-25	2.3	broken piece									
1512	OA5	4	6	1		FGS	absent	23	20.5-25	4.2	RF broken piece	plat & neg scar								core frag or dorsal?

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
1513	OA5	4	7	1	1	Tuff	absent	34	30.5-35	4.6	Platform artefact	proximal BF	irregular	6	71			4		
1514	OA5	4	7	1	1	Quartzite	absent	34.5	30.5-35	3.2	Platform artefact	proximal BF	plain		64	21	26	3		feather + step termination
1515	OA5	4	7	1	0.5	Others	a third or less	28	25.5-30	2.4	Platform artefact	CSBF left	(cortex)	4	54					grades from poor to good quality
1516	OA5	4	7	1		FGS	absent	11	10.5-15	0.5	FF/FP artefact	medial								
1517	OA5	4	8	1	1	Silcrete	absent	24	20.5-25	2.9	Platform artefact	proximal BF	crushed			(21)	18	7.5		
1518	OA5	4	9	1		FGS	absent	21	20.5-25	1.2	FF/FP artefact	medial								part ventral split along flaw
1519	OA5	4	10	1		FGS	absent	10	05.5-10	0.2	Remnant flaked									
1520	OA5	5	2	1		FGS	three quarters or more	18	15.5-20	0.8	FF/FP artefact	distal								
1521	OA5	5	3	1	1	FGS	a third or less	26	25.5-30	2.4	Platform artefact	proximal BF	ridge	3	70	22.5		3.5		plunging distal, regular damage right lateral
1522	OA5	5	3	1	1	FGS	absent	31	30.5-35	3.5	Platform artefact	proximal BF	plain	2	56	(25.5)	13	5		step, fine glossy red, abrupt change to rough pink
1523	OA5	5	3	1	1	FGS	absent	7	05.5-10	0.0	Platform artefact	flake								
1524	OA5	5	3	1		FGS	absent	25	20.5-25	3.7	Remnant flaked	rem platform								
1525	OA5	5	3	1		FGS	absent	17.5	15.5-20	1.0	Heat shatter									
1526	OA5	5	4	1	1	Silcrete	absent	17	15.5-20	0.6	Platform artefact	proximal BF	plain	3	64			2		
1527	OA5	5	4	1	1	FGS	absent	54	50.5-55	32.1	Retouched artefact	broken piece				25	22	26		2 small scars one end short axis

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments		
1528	OA5	5	4	1		FGS	three quarters or more	31	30.5-35	5.2	broken piece											
1529	OA5	5	4	1		FGS	absent	23.5	20.5-25	1.7	broken piece											
1530	OA5	5	4	1		Quartz	three quarters or more	11	10.5-15	0.5	not artefact	pebble										
1531	OA5	5	5	1		Quartz	three quarters or more	11	10.5-15	0.4	not artefact	pebble pce										
1532	OA5	5	5	1		FGS	absent	9	05.5-10	0.1	FF/FP artefact	medial									potlid scar	
1533	OA5	5	5	1		FGS	absent	6.5	05.5-10	0.0	Remnant flaked										potlid	
1534	OA5	5	6	1	1	FGS	absent	24.5	20.5-25	1.2	Possible use-wear	flake	ridge	2	60	21	7	4			fine damage convex distal, elongate, potlid scars	
1535	OA5	5	6	1		FGS	absent	11	10.5-15	0.1	FF/FP artefact	distal										
1536	OA5	5	6	1		FGS	absent	16	15.5-20	0.3	Heat shatter											
1537	OA5	5	6	1		FGS	absent	8.5	05.5-10	0.2	Heat shatter											
1538	OA5	5	7	1	1	FGS	three quarters or more	23	20.5-25	1.7	Platform artefact	flake	plain	3	51	16.5	15.5	4.5				
1539	OA5	5	7	1	1	FGS	absent	19	15.5-20	0.3	FF/FP artefact	medial	broken			(18)	8	2				
1540	OA5	5	8	1	0.5	Quartz	a third or less	37.5	35.5-40	7.8	Platform artefact	CSBF right	(cortex)	6	84	38		7.5			poor quality	
1541	OA5	5	8	1		Silcrete	absent	33	30.5-35	4.9	Remnant flaked	medial						11				
1542	OA5	5	8	1		Silcrete	absent	16	15.5-20	0.7	FF/FP artefact	distal										HD break

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
1543	OA5	5	9	1	1	Others	a third or less	28.5	25.5-30	1.7	Platform artefact	flake	cortex	3.5	46	13.5	23	3.5		hinge, grey, v fine bands
1544	OA5	5	12	1		Others	absent	50	45.5-50	4.1	FF/FP artefact	distal								coarser darker than 1543, like 1515
1545	OA5	6	2	1		Silcrete	about half	71	70.5-75	99.7	Remnant flaked	cobble core?				(48.5)		31		pale conglomerate, partial neg scars
1546	OA5	6	3	1	0.5	Silcrete	absent	32	30.5-35	4.2	Platform artefact	CSBF right	(plain)	5	80	23		6		
1547	OA5	6	3	1		FGS	absent	41.5	40.5-45	3.1	broken piece									poss partial neg scars, poor quality
1548	OA5	6	3	1		Tuff	absent	49	45.5-50	7.6	broken piece									cream, softer than 1545, poor quality
1549	OA5	6	3	1		FGS	absent	20	15.5-20	0.4	broken piece	flaked?								
1550	OA5	6	3	1		FGS	absent	24	20.5-25	1.9	FF/FP artefact	medial								
1551	OA5	6	4	1		Quartzite	about half	50	45.5-50	39.4	broken piece									brown fine
1552	OA5	6	4	1		Tuff	absent	27.5	25.5-30	3.1	FF/FP artefact	distal								fine good quality
1553	OA5	6	4	1		Tuff	absent	28	25.5-30	5.1	broken piece									soft weathered
1554	OA5	6	5	1	1	Silcrete	absent	22	20.5-25	2.4	Platform artefact	flake	ridge	8	51	15	18	3		
1555	OA5	6	7	1	1	Quartzite	a third or less	60	55.5-60	35.3	Platform artefact	proximal BF	plain	8	76		41	15		fine even pale brown
1556	OA5	6	7	1	1	FGS	three quarters or more	46	45.5-50	24.6	Retouched artefact	nodule				45.5	32	13		nodule like flake, 3 complex notches 1 edge
1557	OA5	6	7	1	1	FGS	a third or less	28	25.5-30	5.2	FF/FP artefact	medial	broken							

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
1558	OA5	6	8	1		Quartzite	about half	47	45.5-50	14.6	broken piece	CSBF right?								same fine stone, morphology like CBF but no tech traits
1559	OA5	6	9	1	0.5	Silcrete	absent	19	15.5-20	1.1	Platform artefact	CSBF right	(plain)	4.5						
1560	OA5	6	9	1	1	FGS	absent	18	15.5-20	0.9	Platform artefact	proximal BF	(plain)	3	62	(17)	7	4		rounded wethrd whitish
1561	OA5	6	9	1		Others	absent	22	20.5-25	0.5	FF/FP artefact	distal								saem as 1515
1562	OA5	6	9	1		FGS	absent	13.5	10.5-15	0.2	broken piece	flaked?								
1563	OA5	6	10	1	1	FGS	absent	12	10.5-15	0.2	Platform artefact	proximal BF	focal	1.5	61					
1564	OA5	6	11	1	1	FGS	absent	10	05.5-10	0.1	Platform artefact	bending flake								
1565	OA5	6	12	1		FGS	three quarters or more	14.5	10.5-15	0.4	FF/FP artefact	medial								potlid scar ventral
1566	OA5	7	2	1	1	FGS	absent	15	10.5-15	0.7	Platform artefact	flake	part crushed			13	10.5	4		
1567	OA5	7	2	1	1	FGS	three quarters or more	18	15.5-20	0.7	Platform artefact	proximal BF	broken			(12)		2.5		
1568	OA5	7	2	1	0.5	FGS	absent	19	15.5-20	1.1	Platform artefact	CSBF left	(plain)	5	42	12.5		3.5		
1569	OA5	7	2	1		FGS	three quarters or more	12	10.5-15	0.5	FF/FP artefact									
1570	OA5	7	2	1		FGS	absent	25	20.5-25	1.9	Remnant flaked									
1571	OA5	7	2	1		FGS	absent	21	20.5-25	2.2	Remnant flaked									
1572	OA5	7	2	1		Quartzite	absent	31	30.5-35	3.4	broken piece									

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments	
1573	OA5	7	2	1		Others	three quarters or more	16	15.5-20	0.2	FF/FP artefact	distal									
1574	OA5	7	3	1		Quartzite	a third or less	55	50.5-55	20.6	broken piece										
1575	OA5	7	3	1	1	FGS	absent	32	30.5-35	10.5	Core	ind				26.5	18.5	16	uni	1 uni plat, poss opp scar frm anvil, was another=rotatd	
1576	OA5	7	3	1	1	FGS	absent	15	10.5-15	0.6	Platform artefact	proximal BF	plain	2.5							
1577	OA5	7	3	1		FGS	absent	16	15.5-20	1.0	Heat shatter	RF?									
1578	OA5	7	4	1	1	Quartz	about half	49	45.5-50	93.0	Core	pebble				40.5	36.5	38.5	uni	4 uni plats, pink	
1579	OA5	7	5	1	0.5	FGS	absent	17.5	15.5-20	0.5	Platform artefact	CSBF right	(focal)	3	69					grey TL with crystals	
1580	OA5	7	6	1	1	Tuff	absent	47	45.5-50	13.7	Platform artefact	flake	crushed			39	40	7		new edge damge, rough surfaces	
1581	OA5	7	6	1		Quartzite	three quarters or more	30	25.5-30	1.5	FF/FP artefact	medial								coarse siliceous	
1582	OA5	7	6	1		Others	about half	34.5	30.5-35	1.6	Remnant flaked										
1583	OA5	7	6	1		Tuff	a third or less	27.5	25.5-30	5.2	Remnant flaked									fine banded	
1584	OA5	7	6	1		Tuff	absent	27	25.5-30	7.7	broken piece									rougher banded	
1585	OA5	7	6	1		Quartzite	absent	33	30.5-35	3.0	broken piece									brown finer than 1581	
1586	OA5	7	6	1	0.5	FGS	absent	17.5	15.5-20	1.1	Platform artefact	CSBF right	(plain)	3	75						
1587	OA5	7	7	1	0.5	Others	about half	48	45.5-50	13.1	Platform artefact	CSBF right	(cortex)	9	93	30		12		max length from PFA 48mm	

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
1588	OA5	7	7	1		Others	absent	32.5	30.5-35	5.8	Remnant flaked									
1589	OA5	7	7	1		Tuff	absent	31	30.5-35	7.5	Heat shatter	RF?								
1590	OA5	7	7	1		FGS	absent	14	10.5-15	0.2	Heat shatter									
1591	OA5	7	7	1	1	FGS	a third or less	20.5	20.5-25	2.9	Platform artefact	proximal BF	broken							
1592	OA5	7	7	1		Quartz	about half	21	20.5-25	1.3	FF/FP artefact	distal								
1593	OA5	7	8	1	0.5	Quartzite	a third or less	66	65.5-70	32.0	from cobble implement	CSBF left	(cortex)	5.5	66	63		8		rounded wear dorsal edge of platform
1594	OA5	7	8	1	1	FGS	absent	23	20.5-25	1.6	Platform artefact	proximal BF	ridge	6	87		10.5	5.5		dorsal ridge battered
1595	OA5	7	9	1		FGS	about half	25.5	25.5-30	2.6	Heat shatter									
1596	OA5	7	9	1		FGS	absent	13	10.5-15	0.5	broken piece									
1597	OA5	7	10	1		FGS	absent	15.5	15.5-20	0.8	Heat shatter	RF?								
1598	OA5	8	3	1	1	FGS	absent	18	15.5-20	1.4	Backed artefact	flake	removed			17	12.5	5		asym geo BASI CL=17.5 MW=13.5 LMW=5
1599	OA5	8	3	1	0.5	FGS	absent	19	15.5-20	1.2	Platform artefact	CSBF right	(ridge)	4	66					
1600	OA5	8	3	1		FGS	absent	23.5	20.5-25	1.2	Heat shatter									
1601	OA5	8	4	1	1	FGS	absent	33	30.5-35	6.1	Platform artefact	proximal BF	broken			31				
1602	OA5	8	4	1	0.5	Silcrete	absent	34	30.5-35	8.2	Platform artefact	proximal right	crushed							
1603	OA5	8	4	1		Silcrete	absent	23	20.5-25	3.1	FF/FP artefact	medial								

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments	
1604	OA5	8	4	1		FGS	absent	26	25.5-30	2.3	FF/FP artefact	medial right									
1605	OA5	8	4	1		FGS	absent	26.5	25.5-30	3.9	Remnant flaked	core frag									heat shatter and smoother breaks
1606	OA5	8	4	1		FGS	absent	12.5	10.5-15	0.6	FF/FP artefact										
1607	OA5	8	4	1		Quartz	about half	19	15.5-20	1.2	not artefact	pebble piece									
1608	OA5	8	5	1	1	FGS	a third or less	20	15.5-20	1.1	Platform artefact	proximal BF	wethrd	3	81						
1609	OA5	8	5	1	1	FGS	absent	15.5	15.5-20	0.8	Platform artefact	proximal BF	plain	4	67						
1610	OA5	8	5	1		FGS	absent	8	05.5-10	0.0	FF/FP artefact	distal									
1611	OA5	8	5	1		FGS	absent	11	10.5-15	0.4	Remnant flaked										
1612	OA5	8	5	1		FGS	absent	19.5	15.5-20	0.6	broken piece	flaked?									
1613	OA5	8	5	1		FGS	a third or less	30	25.5-30	11.4	HS broken piece										
1614	OA5	8	5	1		FGS	three quarters or more	27	25.5-30	4.3	Heat shatter										
1615	OA5	8	5	1		FGS	about half	31	30.5-35	3.4	Heat shatter										
1616	OA5	8	5	1		FGS	absent	21	20.5-25	1.8	Heat shatter										
1617	OA5	8	5	1		FGS	absent	13.5	10.5-15	0.2	Heat shatter										
1618	OA5	8	6	1	1	FGS	absent	24.5	20.5-25	1.9	Platform artefact	flake	plain	6.5	53	18	12	4			
1619	OA5	8	6	1	1	FGS	about half	11	10.5-15	0.2	Platform artefact	flake	plain	5	45	4	8	3			

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
1620	OA5	8	6	1		FGS	absent	21	20.5-25	1.3	Heat shatter									
1621	OA5	8	6	1		FGS	absent	15	10.5-15	1.2	Heat shatter	RF?								
1622	OA5	8	6	1		FGS	about half	11	10.5-15	0.3	Heat shatter									
1623	OA5	8	6	1		FGS	absent	14	10.5-15	1.2	broken piece									
1624	OA5	8	7	1	1	Silcrete	about half	40	35.5-40	6.1	Platform artefact	flake	part crushed		71	34.5	17.5	6		dark red shiny grainy
1625	OA5	8	7	1	1	FGS	absent	17	15.5-20	0.7	Platform artefact	proximal BF	ridge	1						
1626	OA5	8	7	1		FGS	a third or less	15	10.5-15	0.6	not artefact	wethrd HS								
1627	OA5	8	8	1	0.5	FGS	absent	10	05.5-10	0.1	Platform artefact	CSBF left								
1628	OA5	8	8	1		FGS	absent	11	10.5-15	0.1	Heat shatter	RF?								
1629	OA5	8	8	1		FGS	absent	8	05.5-10	0.1	Heat shatter									
1630	OA5	8	8	1		Tuff	absent	14	10.5-15	0.3	Heat shatter									
1631	OA5	8	11	1		FGS	absent	10	05.5-10	0.1	FF/FP artefact	distal								
1632	OA5	9	2	1		FGS	absent	10	05.5-10	0.3	broken piece									
1633	OA5	9	3	1	1	Quartzite	a third or less	48	45.5-50	26.8	Platform artefact	proximal BF	cortex	3	71					
1634	OA5	9	3	1	1	S Wood	absent	43	40.5-45	15.2	FF/FP artefact	medial	broken							
1635	OA5	9	3	1	1	FGS	absent	35	30.5-35	6.2	Platform artefact	flake	irregular	6.5	92	24.5	28	6		from rotated core
1636	OA5	9	4	1		FGS	absent	21	20.5-25	1.0	FF/FP artefact	distal								heat shatter breaks ventral

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
1637	OA5	9	4	1		FGS	absent	12.5	10.5-15	0.1	Remnant flaked									
1638	OA5	9	5	1		Quartzite	three quarters or more	26	25.5-30	1.2	broken piece	medial?								
1639	OA5	9	5	1	1	FGS	absent	17	15.5-20	0.5	Platform artefact	proximal BF	part crushed							
1640	OA5	9	5	1		FGS	absent	21.5	20.5-25	3.4	broken piece									
1641	OA5	9	5	1		FGS	absent	14	10.5-15	0.9	broken piece									
1642	OA5	9	5	1		FGS	absent	10.5	10.5-15	0.2	Heat shatter									
1644	OA5	9	6	1	1	FGS	absent	32	30.5-35	4.4	Platform artefact	proximal BF	ridge	6.5	70					
1645	OA5	9	6	1		FGS	absent	29	25.5-30	7.1	RF broken piece									
1646	OA5	9	6	1		FGS	absent	14	10.5-15	0.4	RF broken piece									
1647	OA5	9	6	1		FGS	absent	14	10.5-15	0.3	FF/FP artefact	distal								
1648	OA5	9	6	1		FGS	absent	12.5	10.5-15	0.2	broken piece									
1649	OA5	9	6	1		Quartz	about half	35	30.5-35	14.3	broken piece									poor quality stone
1650	OA5	9	7	1		Tuff	absent	25	20.5-25	1.0	FF/FP artefact	distal right								
1651	OA5	9	7	1	0.5	Others	absent	25	20.5-25	1.5	Platform artefact	CSBF left	part crushed	2	75			3		
1652	OA5	9	7	1		FGS	absent	12.5	10.5-15	0.3	FF/FP artefact	medial								
1653	OA5	9	7	1		FGS	absent	10.5	10.5-15	0.1	Heat shatter									
1655	OA5	9	8	1		FGS	absent	40.5	40.5-45	13.4	HS broken piece									

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments	
1656	OA5	9	8	1		FGS	three quarters or more	14.5	10.5-15	0.4	Heat shatter										
1657	OA5	9	9	1	0.5	FGS	absent	12.5	10.5-15	0.2	Platform artefact	CSBF left	(plain)	2	71	8		2			
1658	OA5	9	9	1		FGS	a third or less	15	10.5-15	0.5	broken piece										
1659	OA5	9	10	1	1	Others	a third or less	33	30.5-35	3.1	Platform artefact	flake	part crushed			33	17	3			
1660	OA5	9	10	1		Quartz	about half	20.5	20.5-25	1.4	HS broken piece										
1661	OA5	9	11	1	0.5	FGS	absent	10	05.5-10	0.1	Platform artefact	CSBF right									
1662	OA5	9	11	1		FGS	absent	14	10.5-15	0.2	FF/FP artefact										
2065	OA6			1		FGS	absent	21	20.5-25	1.0	FF/FP artefact	medial									clean-up
2066	OA6			1		FGS	absent	10	05.5-10	0.3	Heat shatter	RF?									clean-up
2067	OA6			1		Ferricrete	three quarters or more	23	20.5-25	3.2	not artefact	pebble piece									clean-up
2068	OA6			1		Sandstone	absent	22	20.5-25	2.2	not artefact										clean-up, new break
2069	OA6			1		Tuff	three quarters or more	13	10.5-15	1.1	not artefact	pebble piece									clean-up, new break
1664	OA6	1	3	1	1	Quartzite	absent	30.5	30.5-35	2.5	Platform artefact	flake	focal	2	83	30	16	6			
1665	OA6	1	3	1	1	FGS	absent	11	10.5-15	0.2	Platform artefact	proximal BF	ridge	2	82						heat shatter break ventral
1666	OA6	1	3	1	0.5	FGS	absent	13	10.5-15	0.3	Platform artefact	CSBF left									heat shatter break dorsal
1667	OA6	1	3	1		FGS	absent	33	30.5-35	5.8	Remnant flaked	medial?									

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
1668	OA6	1	3	1		FGS	about half	42	40.5-45	33.0	HS broken piece									
1669	OA6	1	3	1		FGS	absent	22	20.5-25	1.3	Heat shatter									
1670	OA6	1	3	1		Quartz	three quarters or more	22	20.5-25	2.2	not artefact									
1671	OA6	1	5	1	0.5	FGS	a third or less	41.5	40.5-45	9.1	Platform artefact	CSBF right	(wethd)	7.5						remnant platform curving dorsal
1672	OA6	1	5	1		FGS	three quarters or more	24.5	20.5-25	1.5	FF/FP artefact	medial left								flaking damage lateral margin
1673	OA6	1	5	1		FGS	absent	12	10.5-15	0.2	FF/FP artefact	medial				(11)	5	2		elongate blade
1674	OA6	1	5	1		FGS	absent	19	15.5-20	1.0	FF/FP artefact	distal								
1675	OA6	1	5	1		FGS	absent	7	05.5-10	0.1	Remnant flaked									
1676	OA6	1	6	1		FGS	absent	14	10.5-15	0.2	FF/FP artefact	distal								potlid scars
1677	OA6	1	7	1	1	FGS	absent	13	10.5-15	0.2	Platform artefact	proximal BF	plain	3						
1678	OA6	1	7	1		FGS	about half	35	30.5-35	14.6	Heat shatter									
1679	OA6	1	8	1	1	Quartzite	absent	41	40.5-45	5.0	Platform artefact	flake	focal	1		38	13	6.5		tisted elongate plunging flake
1680	OA6	1	8	1	1	FGS	about half	26.5	25.5-30	4.1	Platform artefact	proximal BF	part crushed							
1681	OA6	1	8	1	0.5	S Wood	absent	39	35.5-40	17.0	Retouched broken	medial?				32		11		steep retouch straightish edge, poss rounding, not wash
1682	OA6	1	9	1	1	FGS	absent	12	10.5-15	0.2	Platform artefact	flake	crushed			7	10	2		

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments	
1683	OA6	2	2	1		FGS	about half	34	30.5-35	10.1	HS broken piece	RF?									
1684	OA6	2	2	1	0.5	Silcrete	absent	16	15.5-20	1.6	Retouched broken	medial						8			frag only, scalar and steep scars
1685	OA6	2	3	1	1	FGS	absent	38.5	35.5-40	12.2	Retouched artefact	recycled RF brkn pce				(38)		13			steep scars convex edge
1686	OA6	2	3	1	1	FGS	absent	25.5	25.5-30	3.0	Platform artefact	proximal BF	broken			(25)	15.5	5			flattened ventral, step distal
1687	OA6	2	3	1		FGS	absent	21	20.5-25	1.5	FF/FP artefact	distal									heat shatter breaks ventral
1688	OA6	2	4	1	0.5	Quartzite	three quarters or more	85	80.5-100	187.1	Manuport broken	cobble piece									poss rounding damage cortex edge, not cleaned
1689	OA6	2	5	1	1	Quartzite	about half	49	45.5-50	19.5	Platform artefact	flake	cortex	11	93	42.5	34.5	9			
1690	OA6	2	5	1	1	Quartzite	a third or less	20	15.5-20	1.0	Platform artefact	proximal BF	cortex	3							
1691	OA6	2	5	1	1	FGS	absent	31	30.5-35	7.2	Platform artefact	proximal BF	plain	8	70	25		6			
1692	OA6	2	5	1	1	FGS	absent	15.5	15.5-20	0.4	Platform artefact	flake	flaw	1.5	64	10	12.5	2			hinge term
1693	OA6	2	5	1		FGS	absent	24	20.5-25	1.5	FF/FP artefact	flaked piece									remnant platform or retouched edge
1694	OA6	2	6	1	1	FGS	about half	36	35.5-40	6.2	Platform artefact	proximal BF	irregular	3.5	101	35	23	6			flattened ventral
1695	OA6	2	6	1		FGS	absent	33.5	30.5-35	8.9	FF/FP artefact	medial									new break - 2 pieces refit
1696	OA6	2	6	1	0.5	Quartz	a third or less	23.5	20.5-25	2.7	Platform artefact	CSBF left			70						
1697	OA6	2	7	1	1	Tuff	absent	11	10.5-15	0.2	Platform artefact	proximal BF	focal	2							

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
1698	OA6	2	7	1		Silcrete	absent	8.5	05.5-10	0.1	FF/FP artefact	flaked piece								
1699	OA6	2	7	1	1	FGS	three quarters or more	15	10.5-15	0.6	FF/FP artefact	medial	broken							
1700	OA6	2	7	1		FGS	absent	21.5	20.5-25	1.0	Remnant flaked									remnant retouched edge
1701	OA6	2	7	1		FGS	absent	25	20.5-25	3.3	Heat shatter									
1702	OA6	2	7	1		FGS	about half	20	15.5-20	1.4	Heat shatter									rougher rock
1703	OA6	2	7	1		FGS	absent	16	15.5-20	1.2	Heat shatter									
1704	OA6	2	7	1		S Wood	about half	29	25.5-30	10.0	broken piece									
1705	OA6	2	7	1		S Wood	three quarters or more	21	20.5-25	2.3	broken piece									
1706	OA6	2	8	1	1	FGS	absent	11	10.5-15	0.2	Platform artefact	flake	crushed			9	8.5	1.5		
1707	OA6	2	8	1	0.5	FGS	absent	12.5	10.5-15	0.4	Platform artefact	CSBF right	(plain)	1	78	11		1		
1708	OA6	2	8	1		FGS	absent	29	25.5-30	1.3	FF/FP artefact	medial								heat shatter breaks
1709	OA6	2	8	1		FGS	absent	16	15.5-20	0.5	FF/FP artefact	medial								
1710	OA6	2	8	1		FGS	absent	11	10.5-15	0.2	FF/FP artefact	distal								
1711	OA6	2	8	1		FGS	absent	9.5	05.5-10	0.3	Heat shatter	RF?								
1712	OA6	2	8	1		Tuff	absent	11	10.5-15	0.3	Heat shatter									patinated
1713	OA6	2	9	1		Tuff	absent	18	15.5-20	1.6	Heat shatter	RF?								

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
1714	OA6	2	9	1		Tuff	absent	10	05.5-10	0.3	Heat shatter									
1715	OA6	2	9	1	0.5	FGS	about half	27	25.5-30	6.3	core broken	nodule							uni	partial neg scar, plat was wethrd surface
1716	OA6	2	9	1	1	FGS	absent	13.5	10.5-15	0.6	Platform artefact	proximal BF	ridge	3						curved dorsal
1717	OA6	2	10	1	1	FGS	three quarters or more	9.5	05.5-10	0.1	Platform artefact	flake								
1718	OA6	2	10	1		FGS	absent	8.5	05.5-10	0.1	Remnant flaked	dorsal								
1719	OA6	2	10	1		FGS	absent	11	10.5-15	0.1	FF/FP artefact	medial								
1720	OA6	2	10	1		FGS	three quarters or more	21	20.5-25	0.8	broken piece									
1721	OA6	2	10	1		Quartz	about half	11.5	10.5-15	0.5	broken piece									
1722	OA6	3	2	1		FGS	absent	11.5	10.5-15	0.2	FF/FP artefact	distal								
1723	OA6	3	3	1	0.5	Quartz	a third or less	13	10.5-15	0.4	Platform artefact	CSBF left	(cortex)	83						
1724	OA6	3	3	1		FGS	absent	18.5	15.5-20	1.6	FF/FP artefact	flaked piece								
1725	OA6	3	3	1		FGS	absent	19	15.5-20	2.0	Heat shatter	RF?								
1726	OA6	3	3	1		FGS	absent	16	15.5-20	0.9	RF broken piece									
1727	OA6	3	4	1	1	FGS	absent	19.5	15.5-20	1.6	Platform artefact	flake	ridge	5	36	11	16.5	3		
1728	OA6	3	4	1	1	Tuff	absent	32.5	30.5-35	4.3	Platform artefact	flake	plain	3.5	59	18	25	6		diff banded sparkly stone
1729	OA6	3	4	1	1	Silcrete	absent	14	10.5-15	0.4	Platform artefact	flake	ridge	5	21	5.5	12	2.5		

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments	
1730	OA6	3	4	1	0.5	FGS	absent	22.5	20.5-25	0.7	Platform artefact	proximal left		9	36	15.5		6			
1731	OA6	3	4	1		Silcrete	about half	44	40.5-45	39.2	broken piece										sub-rounded cobble
1732	OA6	3	5	1		FGS	absent	18	15.5-20	0.8	FF/FP artefact	medial									new damage lateral margin
1733	OA6	3	5	1		FGS	absent	11.5	10.5-15	0.4	FF/FP artefact	medial									refits to 1732
1734	OA6	3	5	1		FGS	absent	13	10.5-15	0.2	FF/FP artefact	medial									
1735	OA6	3	5	1		Quartz	absent	12.5	10.5-15	0.3	FF/FP artefact	medial									
1736	OA6	3	5	1	0.5	S Wood	a third or less	39	35.5-40	15.1	Retouched broken	distal	(cortex)								short scars in wide shallow notch
1737	OA6	3	5	1		FGS	absent	31.5	30.5-35	4.0	Heat shatter										
1738	OA6	3	5	1		FGS	three quarters or more	14.5	10.5-15	0.5	Heat shatter										
1739	OA6	3	5	1		FGS	absent	13	10.5-15	0.3	broken piece	flaked?									
1740	OA6	3	6	1	1	Silcrete	absent	26	25.5-30	2.7	Platform artefact	proximal BF	plain	5	30	17.5		4			
1741	OA6	3	6	1		Silcrete	absent	28	25.5-30	4.0	FF/FP artefact	medial									
1742	OA6	3	6	1	1	Silcrete	absent	17	15.5-20	0.4	Platform artefact	proximal BF	crushed								
1743	OA6	3	6	1		Silcrete	absent	20	15.5-20	1.0	broken piece										prob same stone as 1741-1742
1744	OA6	3	6	1		FGS	absent	29	25.5-30	2.9	FF/FP artefact	medial									
1745	OA6	3	6	1	0.5	FGS	absent	14.5	10.5-15	0.4	Platform artefact	CSBF left	(plain)	1	73	11		1.5			

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments	
1746	OA6	3	7	1	1	Silcrete	absent	35	30.5-35	4.1	Platform artefact	flake	plain	5	74	23.5	21	6			
1747	OA6	3	7	1		FGS	absent	23.5	20.5-25	2.4	broken piece										
1748	OA6	3	7	1	0.5	FGS	three quarters or more	53	50.5-55	50.9	Manuport broken	HS nodule				(33)	43	23			
1749	OA6	4	1	1		FGS	absent	19	15.5-20	1.1	Remnant flaked	medial									
1750	OA6	4	3	1	1	Silcrete	absent	40	35.5-40	21.3	Platform artefact	proximal BF	plain	4.5	95						plat surface has break across it
1751	OA6	4	3	1	1	FGS	absent	13	10.5-15	0.3	Platform artefact	flake	focal	1	84	9	8.5	2			
1752	OA6	4	3	1	1	FGS	absent	16.5	15.5-20	0.3	Platform artefact	proximal BF	(plain)								heat shatter break dorsal
1753	OA6	4	3	1		FGS	absent	18	15.5-20	0.5	FF/FP artefact	distal									
1754	OA6	4	3	1		FGS	absent	9	05.5-10	0.1	FF/FP artefact	distal									
1755	OA6	4	3	1		Quartzite	absent	23	20.5-25	2.1	broken piece										
1756	OA6	4	3	1		Quartz	about half	16	15.5-20	1.1	broken piece										
1757	OA6	4	3	1		FGS	absent	10	05.5-10	0.1	broken piece	RF?									
1758	OA6	4	3	1		FGS	about half	45	40.5-45	25.9	broken piece										
1759	OA6	4	3	1		FGS	a third or less	43	40.5-45	21.9	HS broken piece										
1760	OA6	4	3	1		FGS	absent	20	15.5-20	1.7	broken piece										
1761	OA6	4	3	1		FGS	absent	16	15.5-20	0.3	HS broken piece										
1762	OA6	4	3	1		FGS	a third or less	12	10.5-15	0.6	HS broken piece										

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
1763	OA6	4	3	2		FGS	absent	9	05.5-10	0.2	Heat shatter									
1764	OA6	4	4	1	0.5	Silcrete	a third or less	27	25.5-30	5.0	Platform artefact	CSBF left	(cortex)	9	65					
1765	OA6	4	4	1		Quartzite	absent	13	10.5-15	0.3	broken piece									
1766	OA6	4	4	1		FGS	absent	15	10.5-15	1.1	broken piece									
1767	OA6	4	5	1	1	Silcrete	absent	42	40.5-45	11.4	Platform artefact	proximal BF	plain	4	75			8		
1768	OA6	4	5	1		FGS	absent	21.5	20.5-25	2.9	broken piece									
1769	OA6	4	5	1		FGS	absent	18	15.5-20	1.5	broken piece									
1770	OA6	4	5	1		FGS	three quarters or more	17.5	15.5-20	1.2	broken piece									
1771	OA6	4	5	1		FGS	three quarters or more	10	05.5-10	0.1	Heat shatter									
1772	OA6	4	6	1	0.5	FGS	a third or less	25	20.5-25	2.3	Platform artefact	CSBF right	(wethrd)	3						
1773	OA6	4	6	1		FGS	absent	11	10.5-15	0.1	Remnant flaked									
1774	OA6	4	6	1		Others	absent	20.5	20.5-25	2.6	not artefact									
1775	OA6	4	7	1	1	FGS	absent	15	10.5-15	0.7	Platform artefact	proximal BF	crushed							
1776	OA6	4	7	1		FGS	absent	22	20.5-25	3.6	FF/FP artefact	medial								heat shatter breaks
1777	OA6	4	7	1	1	FGS	absent	10	05.5-10	0.1	Platform artefact	flake								
1778	OA6	4	7	1		FGS	about half	27	25.5-30	2.9	broken piece									

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
1779	OA6	4	8	1		FGS	about half	33	30.5-35	7.4	broken piece	medial?								
1780	OA6	4	8	1		Quartz	absent	11	10.5-15	0.2	FF/FP artefact	flaked piece								
1781	OA6	4	10	1	1	FGS	absent	10	05.5-10	0.2	Platform artefact	flake								
1782	OA6	5	2	1	1	FGS	absent	43	40.5-45	11.0	Platform artefact	flake	plain	2	82	37.5	22.5	8		
1783	OA6	5	2	1	1	FGS	absent	15	10.5-15	0.5	Platform artefact	proximal BF	ridge	3	45	12.5		2.5		
1784	OA6	5	3	1	0.5	FGS	absent	56	55.5-60	27.5	Retouched broken	distal				(41)		12		shallow complex notch, black
1785	OA6	5	3	1	1	FGS	a third or less	16.5	15.5-20	0.6	Platform artefact	flake	plain	4	58	10.5	16	1.5		
1786	OA6	5	3	1		FGS	three quarters or more	17	15.5-20	0.7	broken piece									
1787	OA6	5	3	1		FGS	a third or less	15.5	15.5-20	0.6	broken piece									
1788	OA6	5	3	1		Tuff	absent	16	15.5-20	0.5	broken piece	distal?								
1789	OA6	5	3	1		Quartzite	about half	53	50.5-55	30.6	broken piece									
1790	OA6	5	4	1	0.5	Silcrete	absent	35.5	35.5-40	4.8	Platform artefact	CSBF right	(plain)	7	68					
1791	OA6	5	4	1	1	FGS	about half	27	25.5-30	4.7	Platform artefact	proximal BF	part crushed	7	30	21	19.5	8		
1792	OA6	5	4	1		FGS	absent	16	15.5-20	0.5	FF/FP artefact	distal								
1793	OA6	5	4	1		FGS	a third or less	21	20.5-25	3.5	FF/FP artefact	flaked piece								
1794	OA6	5	4	1	0.5	FGS	three quarters or more	44	40.5-45	24.6	Manuport broken	nodule broken				26.5	23.5	16.5		tabular nodule

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
1795	OA6	5	4	1		Quartz	absent	27	25.5-30	4.0	FF/FP artefact	medial				(20)	23.5	6		
1796	OA6	5	5	1	0.5	FGS	absent	28	25.5-30	5.4	Platform artefact	CSBF right	(plain)	7	78	23.5		7		
1797	OA6	5	5	1	0.5	FGS	absent	8	05.5-10	0.2	Platform artefact	CSBF right								
1798	OA6	5	5	1		FGS	absent	11	10.5-15	0.2	FF/FP artefact	flaked piece								
1799	OA6	5	5	1		FGS	absent	9	05.5-10	0.1	Remnant flaked									
1800	OA6	5	5	1		FGS	absent	25	20.5-25	1.4	Heat shatter									
1801	OA6	5	6	1	1	FGS	about half	25.5	25.5-30	3.5	Platform artefact	flake	plain	6	63	20	19	5		
1802	OA6	5	6	1		FGS	absent	20	15.5-20	2.4	FF/FP artefact	medial						8.5		
1803	OA6	5	6	1		FGS	three quarters or more	28	25.5-30	7.4	broken piece									
1804	OA6	5	6	1		FGS	absent	16	15.5-20	0.6	Heat shatter									
1805	OA6	5	6	1		Tuff	three quarters or more	13	10.5-15	0.4	Heat shatter									
1806	OA6	5	10	1		FGS	absent	11	10.5-15	0.1	broken piece									
1807	OA6	6	1	1	0.5	Quartz	a third or less	31.5	30.5-35	13.3	Core broken	ind				(31)		13.5	uni	partial neg scars 2 faces, 1 uni ridged, rotated
1808	OA6	6	2	1		Quartzite	about half	40	35.5-40	6.0	FF/FP artefact	medial								
1809	OA6	6	2	1		FGS	about half	45	40.5-45	22.1	Heat shatter									
1810	OA6	6	2	1		FGS	absent	24	20.5-25	2.5	Heat shatter									

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments	
1811	OA6	6	3	1		FGS	three quarters or more	27.5	25.5-30	3.9	FF/FP artefact	medial								prov A1	
1812	OA6	6	3	1		Quartz	about half	19.5	15.5-20	3.9	not artefact	pebble piece									prov A2
1813	OA6	6	3	1		FGS	absent	29.5	25.5-30	4.6	FF/FP artefact	medial									prov A3
1814	OA6	6	3	1		FGS	three quarters or more	31	30.5-35	7.1	broken piece										
1815	OA6	6	3	1		FGS	absent	26	25.5-30	1.7	FF/FP artefact	distal									damage right lateral ventral edge
1816	OA6	6	3	1		FGS	absent	21	20.5-25	3.4	broken piece	distal?									
1817	OA6	6	4	1	1	Silcrete	a third or less	45.5	45.5-50	13.2	Platform artefact	proximal BF	plain	7	83	(34)	33	6.5			step distal
1818	OA6	6	4	1	1	FGS	absent	39	35.5-40	5.1	Platform artefact	proximal BF	(plain)	6	67	29.5		5			
1819	OA6	6	4	1	1	FGS	absent	19	15.5-20	0.9	Retouched broken	proximal BF	ridge	1	82						steep complex notch left ltrl, brkn dstl & right latrl
1820	OA6	6	4	1		FGS	about half	21	20.5-25	3.0	broken piece										
1821	OA6	6	4	1		FGS	three quarters or more	23	20.5-25	4.4	HS broken piece										
1822	OA6	6	4	1		FGS	three quarters or more	20	15.5-20	1.2	broken piece										
1823	OA6	6	4	1		Quartz	a third or less	14.5	10.5-15	0.6	broken piece										
1824	OA6	6	4	1		FGS	absent	12.5	10.5-15	0.7	Remnant flaked										

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
1825	OA6	6	4	1		FGS	about half	43	40.5-45	45.8	broken piece	pebble piece				(39)	27			
1826	OA6	6	5	1	0.5	Quartzite	a third or less	50	45.5-50	19.3	from cobble implement	CSBF left	(cortex)	13.5	70	40.5		10		not cleaned, poss rounding dorsal edge of platform
1827	OA6	6	5	1	1	Silcrete	absent	23.5	20.5-25	2.0	Platform artefact	flake	ridge	6	68	18	16.5	4		
1828	OA6	6	5	1	1	FGS	a third or less	34.5	30.5-35	2.7	Platform artefact	proximal BF	wethrd	5	68	24	14	3.5		right distal tip broken
1829	OA6	6	5	1	0.5	FGS	absent	25	20.5-25	6.3	Core broken	ind				(17.5)			uni	2 uni plats - 1 neg scar is platform of next removal
1830	OA6	6	5	1	1	FGS	absent	18	15.5-20	0.6	Platform artefact	flake	focal	1.5	80	13	12	2		
1831	OA6	6	5	1		FGS	absent	15	10.5-15	0.7	FF/FP artefact	flaked piece								yellow, void with tiny crystals
1832	OA6	6	5	1		FGS	absent	14	10.5-15	0.3	Heat shatter									
1833	OA6	6	6	1		FGS	absent	21	20.5-25	1.3	Remnant flaked									
1834	OA6	6	6	1	1	FGS	absent	12	10.5-15	0.2	Platform artefact	flake	plain	2		11	7	2		
1835	OA6	6	8	1	1	FGS	absent	19	15.5-20	1.1	Platform artefact	proximal BF	ridge	4	66	(13)	14	2.5		step distal
1836	OA6	6	9	1		FGS	absent	14	10.5-15	0.8	broken piece									
1837	OA6	6	9	1		FGS	absent	19.5	15.5-20	0.3	Heat shatter									
1838	OA6	6	9	1		Tuff	absent	25	20.5-25	4.4	broken piece									weathered
1839	OA6	6	10	1	0.5	FGS	absent	27	25.5-30	0.8	Platform artefact	CSBF left	(plain)	6	58	23		3.5		

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
1840	OA6	7	2	1	1	Silcrete	a third or less	38	35.5-40	13.5	Platform artefact	flake	plain	4		31	27	10.5		fien even grain
1841	OA6	7	2	1		Silcrete	absent	25.5	25.5-30	4.4	FF/FP artefact	distal right								damage right lateral, but no obvious use-wear
1842	OA6	7	2	1		FGS	about half	31	30.5-35	3.7	Heat shatter									
1843	OA6	7	2	1		FGS	a third or less	21	20.5-25	4.3	Heat shatter									
1844	OA6	7	3	1	1	FGS	absent	18	15.5-20	1.3	Platform artefact	proximal BF	plain	3	63					
1845	OA6	7	3	1		FGS	absent	10.5	10.5-15	0.1	broken piece									
1846	OA6	7	3	1	1	FGS	absent	9	05.5-10	0.2	Platform artefact	proximal BF								
1847	OA6	7	4	1		FGS	about half	32	30.5-35	9.0	broken piece									prov A1
1848	OA6	7	4	1	0.5	FGS	absent	44	40.5-45	43.1	Core broken	ind				40		25	uni	prov A2, heat shatter break, 1 neg scar
1849	OA6	7	4	1	1	S Wood	absent	21	20.5-25	1.7	Platform artefact	proximal BF	broken							
1850	OA6	7	4	1	1	FGS	absent	8.5	05.5-10	0.0	Platform artefact	flake								
1851	OA6	7	4	1	1	FGS	absent	19.5	15.5-20	0.7	Platform artefact	flake	plain	4.5	23	16	7.5	4		skewed, irregular flake
1852	OA6	7	4	1		FGS	absent	20	15.5-20	1.9	broken piece									
1853	OA6	7	4	1		FGS	absent	18	15.5-20	2.4	HS broken piece	RF?								
1854	OA6	7	4	1		FGS	absent	36	35.5-40	4.0	Heat shatter									
1855	OA6	7	5	1	0.5	Quartzite	absent	39	35.5-40	6.7	Platform artefact	CSBF left		4.5	70	31		4		prov A1

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments	
1856	OA6	7	5	1		FGS	three quarters or more	27.5	25.5-30	4.5	broken piece										
1857	OA6	7	5	1		FGS	a third or less	20	15.5-20	0.5	Remnant flaked										
1858	OA6	7	6	1	1	FGS	absent	21	20.5-25	1.2	Platform artefact	proximal BF	plain	2.5	79						
1859	OA6	7	6	1	1	FGS	absent	22	20.5-25	0.8	Possible use-wear broken	medial									light flaking damage rounding
1860	OA6	7	6	1		FGS	absent	38	35.5-40	8.3	RF broken piece										remnant platform & partial scar
1861	OA6	7	6	1		FGS	absent	38	35.5-40	8.9	HS broken piece										
1862	OA6	7	6	1		FGS	absent	19	15.5-20	1.2	broken piece	RF?									
1863	OA6	7	6	1		Quartz	three quarters or more	25.5	25.5-30	6.2	not artefact	broken pebble									
1864	OA6	7	7	1	1	FGS	a third or less	29.5	25.5-30	4.7	Platform artefact	flake	wethrd	5.5	76	28	22	5			part plat split away, angle adjacent to PFA
1865	OA6	7	7	1	1	FGS	absent	18	15.5-20	0.4	Platform artefact	flake	crushed			9	12	2.5			hinge distal
1866	OA6	7	7	1		FGS	three quarters or more	46	45.5-50	26.3	broken piece										
1867	OA6	7	7	1		FGS	absent	21	20.5-25	3.4	HS broken piece										
1868	OA6	7	8	1		Quartzite	three quarters or more	33.5	30.5-35	12.9	broken piece										quartz but white-pink & fine grains
1869	OA6	7	9	1	1	FGS	about half	23	20.5-25	2.0	Platform artefact	flake	plain	3	86	12	20	4			plunging distal removed wethrd surface

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments	
1870	OA6	7	9	1	1	FGS	absent	17	15.5-20	0.7	Platform artefact	proximal BF	plain	2	75	16	15	2		right distal corner broken	
1871	OA6	7	9	1	1	FGS	absent	20	15.5-20	1.1	Bipolar artefact	proximal BF	bipolar				10	4		1 thin end, bipolar ventral, dorsal broken flaw	
1872	OA6	7	9	1		FGS	three quarters or more	43	40.5-45	14.7	Heat shatter										
1873	OA6	7	9	1	0.5	FGS	a third or less	47	45.5-50	32.5	Core broken	ind							uni	frag only, 1 uni plat	
1874	OA6	7	9	1		Silcrete	absent	30.5	30.5-35	5.5	broken piece										
1875	OA6	7	9	1		FGS	absent	22	20.5-25	2.2	broken piece										
1876	OA6	7	9	1		FGS	three quarters or more	23	20.5-25	2.7	broken piece										
1877	OA6	7	9	1		FGS	absent	15.5	15.5-20	0.5	broken piece										
1878	OA6	7	10	1		FGS	three quarters or more	15	10.5-15	0.9	FF/FP artefact	distal									
1879	OA6	7	11	1		Quartz	absent	14	10.5-15	0.3	FF/FP artefact	medial									white
1880	OA6	7	11	1		Quartz	three quarters or more	16	15.5-20	1.2	broken piece										
1881	OA6	7	11	1		FGS	a third or less	14	10.5-15	0.7	Heat shatter										
1882	OA6	7	11	1		FGS	absent	11	10.5-15	0.6	Heat shatter										
1883	OA6	8	2	1		FGS	absent	34.5	30.5-35	10.4	Heat shatter										
1884	OA6	8	2	1		FGS	absent	8	05.5-10	0.1	HS broken piece										

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
1885	OA6	8	3	1	1	Tuff	absent	21	20.5-25	1.0	Platform artefact	flake	plain	7	31	7	18	3		
1886	OA6	8	3	1		FGS	absent	22.5	20.5-25	0.9	FF/FP artefact	medial								
1887	OA6	8	3	1		FGS	absent	25	20.5-25	4.6	Heat shatter									
1888	OA6	8	4	1	0.5	Others	three quarters or more	91	80.5-100	152.1	Manuport broken	cobble piece						24		sub-rounded, flat
1889	OA6	8	4	1	1	Quartzite	a third or less	23	20.5-25	2.7	Platform artefact	proximal BF	cortex	10	62					
1890	OA6	8	4	1		Quartzite	absent	30	25.5-30	2.8	broken piece									
1891	OA6	8	4	1	1	FGS	absent	10	05.5-10	0.2	Platform artefact	flake								
1892	OA6	8	4	1	1	FGS	absent	10.5	10.5-15	0.2	Platform artefact	proximal BF	plain	3	50					
1893	OA6	8	4	1	0.5	FGS	absent	19.5	15.5-20	1.6	Platform artefact	CSBF right								
1894	OA6	8	4	1		FGS	absent	27	25.5-30	1.4	FF/FP artefact	medial								
1895	OA6	8	4	1		FGS	three quarters or more	36	35.5-40	8.0	broken piece									
1896	OA6	8	4	1		FGS	absent	25	20.5-25	5.8	broken piece									
1897	OA6	8	4	1		FGS	a third or less	24.5	20.5-25	1.6	broken piece									
1898	OA6	8	4	1		FGS	absent	14	10.5-15	0.5	HS broken piece									
1899	OA6	8	4	1		FGS	absent	12	10.5-15	0.3	broken piece									
1900	OA6	8	4	1		FGS	absent	10	05.5-10	0.1	Heat shatter									

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
1901	OA6	8	4	1		FGS	absent	7.5	05.5-10	0.1	Heat shatter									
1904	OA6	8	5	1	1	Silcrete	absent	16.5	15.5-20	0.6	Platform artefact	flake	ridge	5	65	10.5	14	3		
1905	OA6	8	5	1		Silcrete	absent	16	15.5-20	0.6	broken piece									finer than 1904
1906	OA6	8	5	1		Quartzite	absent	31	30.5-35	2.9	FF/FP artefact	medial								same as spit 4
1907	OA6	8	5	1	1	FGS	three quarters or more	15	10.5-15	0.6	Platform artefact	proximal BF	broken							flattened bulb
1908	OA6	8	5	1	1	FGS	absent	11	10.5-15	0.2	Platform artefact	proximal BF	plain							PFA part crushed
1909	OA6	8	5	1	1	FGS	absent	13	10.5-15	0.1	Platform artefact	proximal BF	plain	2	63	8	9	1.5		step distal
1910	OA6	8	5	1	0.5	FGS	a third or less	17	15.5-20	0.5	Platform artefact	CSBF right	(wethrd)	4	56					
1911	OA6	8	5	1		FGS	absent	12	10.5-15	0.2	FF/FP artefact	medial								poss from bipolar flkaing
1912	OA6	8	5	1		FGS	absent	14	10.5-15	0.3	FF/FP artefact	medial								HS breaks
1913	OA6	8	5	1		FGS	three quarters or more	12	10.5-15	0.1	FF/FP artefact	distal								hinge
1914	OA6	8	5	1		FGS	absent	17	15.5-20	1.0	RF broken piece									
1915	OA6	8	5	1		FGS	absent	38	35.5-40	9.9	Heat shatter									
1916	OA6	8	5	1		FGS	absent	23	20.5-25	2.7	Heat shatter									
1917	OA6	8	5	1		FGS	absent	9.5	05.5-10	0.1	Heat shatter									
1918	OA6	8	5	1		FGS	absent	9	05.5-10	0.0	Heat shatter	RF?								

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments	
1919	OA6	8	5	1		Quartz	absent	22.5	20.5-25	5.1	broken piece										blocky piece
1920	OA6	8	5	1		Quartz	about half	18	15.5-20	2.0	broken piece										
1921	OA6	8	6	1	1	FGS	absent	21	20.5-25	0.8	Platform artefact	proximal BF	broken			17.5	10	2			prov A1, heat shatter damage
1922	OA6	8	6	1	0.5	FGS	absent	25	20.5-25	3.1	Platform artefact	CSBF right	(plain)	4	71	17		6			prov A2, from rotated core
1923	OA6	8	6	1		FGS	three quarters or more	36	35.5-40	21.8	broken piece										same stone as 1922
1924	OA6	8	6	1		FGS	a third or less	30.5	30.5-35	10.0	Heat shatter										
1925	OA6	8	6	1		FGS	three quarters or more	24	20.5-25	2.8	Heat shatter										
1926	OA6	8	6	1		FGS	absent	16	15.5-20	0.4	Heat shatter										
1927	OA6	8	6	1		FGS	absent	9	05.5-10	0.1	Heat shatter										
1928	OA6	8	6	1		FGS	absent	16	15.5-20	0.9	Remnant flaked										
1929	OA6	8	6	1		Quartz	about half	23	20.5-25	2.7	broken piece										
1930	OA6	8	7	1	1	FGS	absent	40.5	40.5-45	8.2	Retouched artefact	flake	plain	6	71	36.5	24	7			cmplx ntchs rght left ltrl, steep&scalar lft ltrl
1931	OA6	8	7	1	1	FGS	absent	15	10.5-15	0.5	Platform artefact	proximal BF	ridge	2	58						
1932	OA6	8	7	1	0.5	FGS	absent	47	45.5-50	4.7	Platform artefact	proximal left									
1933	OA6	8	7	1		FGS	absent	12	10.5-15	0.3	broken piece	HS?									
1934	OA6	8	8	1		Quartz	a third or less	13	10.5-15	0.8	broken piece										

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments			
1935	OA6	8	8	1		FGS	absent	8.5	05.5-10	0.1	broken piece												
1936	OA6	8	9	1		FGS	absent	17	15.5-20	0.9	Heat shatter	RF?											
1937	OA6	8	9	1		FGS	absent	9	05.5-10	0.2	broken piece												
1938	OA6	9	2	1	1	FGS	absent	18	15.5-20	0.5	Platform artefact	proximal BF	focal	1.5	87	11	16	1.5		left distal corner broken			
1939	OA6	9	2	1		FGS	absent	18	15.5-20	0.5	FF/FP artefact	distal											
1940	OA6	9	2	1		FGS	absent	19	15.5-20	1.0	Remnant flaked	proximal BF											
1941	OA6	9	2	1	1	FGS	a third or less	9	05.5-10	0.1	Platform artefact	flake											
1942	OA6	9	3	1	0.5	FGS	absent	10.5	10.5-15	0.2	Platform artefact	CSBF left											
1943	OA6	9	4	1	0.5	Silcrete	absent	27	25.5-30	3.7	Retouched broken	medial						9.5		frag only, 4 small scalar scars acute edge			
1944	OA6	9	4	1	0.5	FGS	absent	13	10.5-15	0.2	Platform artefact	CSBF right				10		2					
1945	OA6	9	5	1		FGS	absent	16.5	15.5-20	0.4	FF/FP artefact	distal											
1946	OA6	9	5	1		FGS	absent	12.5	10.5-15	0.4	broken piece												
1947	OA6	9	5	1		FGS	absent	11.5	10.5-15	0.2	Heat shatter												
1948	OA6	9	6	1	1	FGS	absent	28.5	25.5-30	5.0	Platform artefact	flake	plain	9.5	66	22	18	9		new daage distal			
1949	OA6	9	6	1	1	FGS	absent	29.5	25.5-30	3.7	Platform artefact	flake	crushed			26	19.5	5		pronounced hinge bulb			
1950	OA6	9	6	1	1	FGS	absent	11	10.5-15	0.3	Platform artefact	flake	plain	3	48	6	8	1.5					
1951	OA6	9	6	1		FGS	absent	20	15.5-20	2.1	FF/FP artefact	distal right											

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments	
1952	OA6	9	6	1		FGS	three quarters or more	28	25.5-30	9.8	broken piece										
1953	OA6	9	6	1		FGS	about half	13.5	10.5-15	0.6	Heat shatter										
1954	OA6	9	6	1		Quartzite	absent	42	40.5-45	4.2	broken piece										same rough mid grey
1955	OA6	9	7	1	1	FGS	absent	21.5	20.5-25	1.2	Platform artefact	proximal BF	plain	3	74						heat shatter breaks ventral & dorsal
1956	OA6	9	7	1	1	FGS	absent	12	10.5-15	0.2	FF/FP artefact	medial	crushed & broken								
1957	OA6	9	7	1		FGS	about half	12.5	10.5-15	0.2	broken piece										
1958	OA6	9	7	1		FGS	absent	10.5	10.5-15	0.1	Remnant flaked										
1959	OA6	9	8	1	1	FGS	absent	24	20.5-25	2.8	Platform artefact	flake	scars	7	58	16	17	5.5		platform cleaned	
1960	OA6	9	8	1	1	FGS	absent	22	20.5-25	0.3	Platform artefact	flake	ridge	2.5	83	10	18	1		feather distal quite irregular	
1961	OA6	9	8	1	1	FGS	absent	7.5	05.5-10	0.1	Platform artefact	flake									
1962	OA6	9	8	1		FGS	absent	19	15.5-20	1.5	FF/FP artefact	flaked piece									
1963	OA6	9	8	1		FGS	absent	16	15.5-20	0.3	Heat shatter										
1964	OA6	9	8	1	0.5	Tuff	absent	23	20.5-25	3.2	Platform artefact	CSBF right	(plain)	8	61						
1965	OA6	9	9	1	1	FGS	absent	9	05.5-10	0.1	Platform artefact	flake									
1966	OA6	9	10	1	1	FGS	absent	17	15.5-20	0.4	Platform artefact	flake	plain	2	36	12	8	3			
1967	OA6	9	10	1	0.5	FGS	absent	11.5	10.5-15	0.2	Platform artefact	CSBF right	(irregular)	1.5	53						

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
1968	OA6	9	11	1		FGS	absent	11	10.5-15	0.2	FF/FP artefact	distal								
1969	OA6	9	11	1		FGS	three quarters or more	15	10.5-15	1.1	broken piece									
1970	OA6	10	2	1		Silcrete	absent	35.5	35.5-40	11.2	Remnant flaked	CSBF mid		12	58					
1971	OA6	10	2	1		FGS	absent	10	05.5-10	0.2	FF/FP artefact	medial								
1978	OA6	10	3	1	0.5	Quartzite	a third or less	55	50.5-55	29.6	Platform artefact	CSBF right	(cortex)	3	80	46.5		9.5		slight rounding oldest dorsal surfaces
1979	OA6	10	3	1		Silcrete	absent	30	25.5-30	4.5	FF/FP artefact	medial						6.5		
1980	OA6	10	3	1	0.5	Silcrete	absent	18	15.5-20	1.6	Platform artefact	CSBF left	(plain)	6.5	61					
1981	OA6	10	3	1	0.5	Quartz	about half	18	15.5-20	1.9	Platform artefact	CSBF right	(plain)	9	41	11		8		
1982	OA6	10	3	1		FGS	absent	22	20.5-25	2.8	Heat shatter	RF?								
1983	OA6	10	3	1		FGS	absent	20	15.5-20	1.8	broken piece	RF?								
1984	OA6	10	3	1		FGS	absent	8	05.5-10	0.0	broken piece									
1972	OA6	10	4	1	1	FGS	absent	34.5	30.5-35	7.7	Platform artefact	proximal BF	plain	3	51					
1973	OA6	10	4	1	1	FGS	absent	17	15.5-20	0.9	Platform artefact	proximal BF	ridge	3	71					
1974	OA6	10	4	1		FGS	absent	28	25.5-30	3.1	FF/FP artefact	medial								heat shatter scars
1975	OA6	10	4	1		FGS	absent	17	15.5-20	2.0	Remnant flaked									
1976	OA6	10	4	1		FGS	absent	8	05.5-10	0.0	Remnant flaked									

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
1977	OA6	10	4	1		FGS	about half	12	10.5-15	0.5	broken piece									
1985	OA6	10	5	1	1	Silcrete	absent	26	25.5-30	5.6	Platform artefact	proximal BF	plain	5		(20.5)	22.5	8		white weathered
1986	OA6	10	5	1		FGS	absent	18.5	15.5-20	0.5	Remnant flaked									
1987	OA6	10	5	1		FGS	absent	18.5	15.5-20	1.4	Heat shatter									
1988	OA6	10	5	1		FGS	absent	15	10.5-15	1.3	Heat shatter									
1989	OA6	10	5	1		FGS	absent	12.5	10.5-15	0.7	Heat shatter									
1990	OA6	10	6	1		FGS	absent	32	30.5-35	3.5	FF/FP artefact	distal				(32)	16	7		damage right lateral, poss elongate
1991	OA6	10	6	1	1	FGS	absent	17	15.5-20	0.8	Platform artefact	proximal BF	broken	1	82	(17)		1.5		
1992	OA6	10	6	1		FGS	absent	15	10.5-15	0.7	FF/FP artefact	medial								
1993	OA6	10	6	1		Quartz	about half	29.5	25.5-30	3.5	broken piece									
1994	OA6	10	7	1		FGS	absent	9	05.5-10	0.2	FF/FP artefact	distal								
1995	OA6	10	7	1		FGS	a third or less	36	35.5-40	11.8	Heat shatter									
1996	OA6	10	7	1		FGS	a third or less	27	25.5-30	4.3	Heat shatter									
1997	OA6	10	9	1		FGS	absent	16	15.5-20	0.7	broken piece									bit worn
1998	OA6	10	10	1		FGS	absent	16.5	15.5-20	0.5	FF/FP artefact	distal								
1999	OA6	10	10	1		FGS	absent	14	10.5-15	0.4	Heat shatter									
2000	OA6	10	10	1	0.5	FGS	absent	13	10.5-15	0.2	Platform artefact	CSBF left	(plain)	2	86	10		2.5		

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments		
2001	OA6	11	2	1		FGS	absent	31	30.5-35	6.0	RF broken piece											
2002	OA6	11	3	1		FGS	absent	15	10.5-15	0.5	FF/FP artefact	distal									remnant older surface - from recycled?	
2003	OA6	11	3	1		FGS	three quarters or more	34	30.5-35	13.5	HS broken piece											
2004	OA6	11	3	1		FGS	absent	36	35.5-40	5.5	HS broken piece											
2005	OA6	11	3	1		FGS	absent	24.5	20.5-25	2.4	HS broken piece	RF?										
2006	OA6	11	3	1		FGS	a third or less	20.5	20.5-25	3.9	broken piece											
2008	OA6	11	4	1	1	FGS	absent	20	15.5-20	1.3	Possible use-wear	distal				19.5	5.5	3			fine flaking damage prox & distal ends, washed	
2009	OA6	11	4	1	0.5	FGS	absent	32.5	30.5-35	5.4	Core broken	ind				29		14	bif or a		1 partial bifacial or asym platform	
2010	OA6	11	4	1		FGS	absent	42.5	40.5-45	41.1	HS broken piece											
2011	OA6	11	4	1		FGS	a third or less	20	15.5-20	2.9	broken piece											
2012	OA6	11	4	1		FGS	absent	10	05.5-10	0.0	broken piece											
2013	OA6	11	4	1		Tuff	about half	19.5	15.5-20	2.2	not artefact											weathered worn/rounded
2014	OA6	11	4	1		FGS	three quarters or more	16	15.5-20	2.0	not artefact											weathered worn/rounded
2015	OA6	11	5	1		Silcrete	absent	68	65.5-70	37.0	broken piece					57	32	10				flattish triangle
2016	OA6	11	5	1		Silcrete	absent	13	10.5-15	0.1	FF/FP artefact	distal				(13)	6	2				

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
2017	OA6	11	5	1		FGS	absent	11	10.5-15	0.2	FF/FP artefact	flaked piece								remnant platform or retouched edge
2018	OA6	11	5	1		Tuff	absent	44	40.5-45	24.3	RF broken piece									remnant platform, core rotated in flaking
2019	OA6	11	5	1		FGS	absent	19	15.5-20	0.8	RF broken piece									
2020	OA6	11	5	1		FGS	about half	17	15.5-20	0.6	Remnant flaked									
2021	OA6	11	5	1		FGS	a third or less	21	20.5-25	1.7	Heat shatter									
2022	OA6	11	5	1		FGS	absent	18	15.5-20	0.5	broken piece									
2023	OA6	11	5	1		Others	three quarters or more	37	35.5-40	5.9	broken piece									from Budgong Sandstone, new break - 2 pcs refit
2024	OA6	11	5	1		Ferricrete	absent	22	20.5-25	2.7	not artefact									s//r to 2023 but no white inclusions
2025	OA6	11	5	1		Others	absent	19	15.5-20	0.7	HS broken piece									
2026	OA6	11	5	1		Others	absent	18	15.5-20	0.7	Heat shatter									
2027	OA6	11	6	1		FGS	absent	16	15.5-20	0.9	Remnant flaked									
2028	OA6	11	6	1		FGS	absent	12	10.5-15	0.1	Heat shatter									
2029	OA6	11	6	1		Quartz	absent	11.5	10.5-15	0.2	FF/FP artefact	flaked piece								
2030	OA6	11	6	1		Quartzite	absent	13.5	10.5-15	0.3	broken piece									
2031	OA6	11	7	1		FGS	absent	15	10.5-15	0.4	FF/FP artefact	medial								

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
2032	OA6	11	7	1	0.5	FGS	absent	14.5	10.5-15	0.2	Platform artefact	CSBF right		2	64			1.5		
2033	OA6	11	7	1		FGS	absent	20	15.5-20	3.3	Heat shatter	RF?								
2034	OA6	11	10	1		FGS	absent	14.5	10.5-15	0.3	FF/FP artefact	medial								
2035	OA6	11	11	1		Silcrete	absent	12.5	10.5-15	0.1	FF/FP artefact	medial								
2036	OA6	11	12	1		Silcrete	absent	17	15.5-20	1.2	FF/FP artefact	medial								fine
2037	OA6	11	12	1	1	FGS	a third or less	13	10.5-15	0.6	Platform artefact	proximal BF	(wethrd)	5						
2038	OA6	11	12	1		FGS	absent	9	05.5-10	0.2	FF/FP artefact	medial								
2039	OA6	11	12	1		Quartz	three quarters or more	12	10.5-15	0.2	not artefact									
2040	OA6	12	2	1	1	FGS	absent	21.5	20.5-25	0.7	Backed artefact	flake	focal	1.5	86	21	9	4		crescent BASI CL=20.5 MW=9 LMW=6
2041	OA6	12	2	1	1	FGS	absent	24	20.5-25	1.9	Platform artefact	flake	part crushed			22.5	12	6		
2042	OA6	12	2	1	1	FGS	absent	23	20.5-25	1.7	Platform artefact	proximal BF	part crushed							
2043	OA6	12	2	1	1	Quartz	a third or less	32	30.5-35	8.3	Platform artefact	proximal BF	cortex	13	70	(22)	25	8		
2044	OA6	12	3	1		FGS	about half	26	25.5-30	5.0	broken piece									
2045	OA6	12	4	1		FGS	absent	22.5	20.5-25	3.6	broken piece									
2046	OA6	12	4	1		FGS	absent	21	20.5-25	1.3	broken piece	HS?								
2047	OA6	12	4	1	1	FGS	about half	31.5	30.5-35	5.5	Platform artefact	flake	wethrd	5.5	78	23.5	16.5	3.5		grey banded speckled

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments
2048	OA6	12	5	1	1	FGS	a third or less	35	30.5-35	11.7	Platform artefact	flake	wethrd	4	83	32	29	10		convex shape not retouched
2049	OA6	12	5	1	1	FGS	absent	13	10.5-15	0.2	Platform artefact	flake	crushed			13	7	2		
2050	OA6	12	5	1	0.5	Quartzite	absent	18	15.5-20	0.7	Platform artefact	CSBF left	(plain)	2		17		4		curving dorsal
2051	OA6	12	5	1		FGS	three quarters or more	16.5	15.5-20	0.5	Heat shatter									
2052	OA6	12	5	1		FGS	absent	11	10.5-15	0.1	Heat shatter									
2053	OA6	12	5	1		FGS	absent	47	45.5-50	24.3	HS broken piece									
2054	OA6	12	6	1		FGS	three quarters or more	33.5	30.5-35	10.8	Remnant flaked	nodule				(33.5)		13		flattish nodule
2055	OA6	12	7	1	0.5	FGS	about half	38	35.5-40	8.1	Platform artefact	CSBF left	plain	7	85	(34)		5		
2056	OA6	12	7	1		Silcrete	absent	14.5	10.5-15	0.7	FF/FP artefact	medial								
2057	OA6	12	7	1		Quartzite	absent	23	20.5-25	0.8	broken piece									
2058	OA6	12	7	1		Quartzite	absent	15.5	15.5-20	0.5	broken piece									
2059	OA6	12	7	1		FGS	absent	34.5	30.5-35	9.8	Heat shatter									
2060	OA6	12	7	1		FGS	absent	12	10.5-15	0.7	Heat shatter	RF?								
2061	OA6	12	7	1		FGS	absent	12	10.5-15	0.2	Heat shatter									
2062	OA6	12	7	1		FGS	absent	9	05.5-10	0.2	Heat shatter									
2063	OA6	12	7	1		FGS	absent	8	05.5-10	0.1	Heat shatter									

22206 25 Moss Vale Road Bomaderry Lithic Catalogue

ID	Area	Pit	Spit	Count	MNI	Material	Cortex	Max Size	Size	Weight	Category	Type	Platform	Plat Depth	Plat Angle	Length	Width	Thick	Flaking pattern	Comments	
2064	OA6	12	8	1		FGS	absent	13	10.5-15	0.1	FF/FP artefact	distal									



## **APPENDIX B: ASIRFs**



- 1 This form must be completed following impacts to AHIMS sites that are:
  - a) a result of test excavation carried out in accordance with the *Code of Practice for the Archaeological Investigation of Aboriginal Objects in NSW*
  - b) authorised by an Aboriginal Heritage Impact Permit (AHIP) issued by the Office of Environment and Heritage (OEH)
  - c) undertaken for the purpose of complying with Director General's Requirements issued by the Department of Planning and Infrastructure (DP&I) for:
    - State Significant Development (SSD - Part 4),
    - State Significant Infrastructure (SSI - Part 5.1), or
    - A Major Project (Part 3A - now repealed) under the *Environmental Planning and Assessment Act 1979 (EP&A Act)*, or
  - d) authorised by a SSD/SSI/Part 3A consent/approval under the EP&A Act.
- 2 Completed forms must be submitted to the AHIMS Registrar ([www.environment.nsw.gov.au/contact/AHIMSRegistrar.htm](http://www.environment.nsw.gov.au/contact/AHIMSRegistrar.htm)).
- 3 This form is intended to complement (not replace) the AHIMS Site Recording Form. Where there is a need to provide detailed information about the nature of a site, use the AHIMS Site Recording Form.
- 4 This form does not replace the need to submit reports to OEH (as a condition of an AHIP or SSD/SSI/Part 3A consent/approval). This form must be submitted in addition to any reports.

**AHIMS site ID:**

**Date recorded:**

Site impact authorisation (select one)	Reference numbers, dates
<input type="checkbox"/> Archaeological Code (The impacts to this site were the result of test excavation carried out in accordance with the <i>Code of Practice for the Archaeological Investigation of Aboriginal Objects in NSW</i> .)	Date OEH was notified (under requirement 15c of the Code): <input type="text"/> OEH Regional office notified: <input type="text"/>
<input checked="" type="checkbox"/> AHIP (The impacts to this site were authorised by an AHIP.)	AHIP number: <input type="text" value="5144"/> Date issued/signed: <input type="text" value="2023-08-15"/> AHIMS permit ID/number: <input type="text" value="5144"/>
<input type="checkbox"/> SSD/SSI/Part 3A application (The impacts to this site were undertaken for the purposes of complying with Director General's Requirements issued by the DP&I)	Project number: <input type="text"/> Date Director General's Requirements issued: <input type="text"/>
<input type="checkbox"/> SSD/SSI/Part 3A approved project (The impacts to this site were authorised by a consent/approval under Parts 4/5.1/3A of the EP&A Act.)	or Date of project approval: <input type="text"/>

### Site status following impacts:

- Not a site (The investigations concluded that this is not a site.)
- Valid site (The investigations confirmed that this is an Aboriginal site.)
- Partially destroyed (The site was partially destroyed following authorised impacts; a portion of the site remains in situ.)
- Destroyed (The site was completely destroyed following authorised impacts.)

## Site Location Information:

Site name: Moss Vale Road Artefact Scatter 1

Easting: 279627 Northing: 6142082 Coordinates must be in GDA94 (MGA)

Horizontal Accuracy (m): 5

Zone: 56 Location method: Client GIS or CAD system

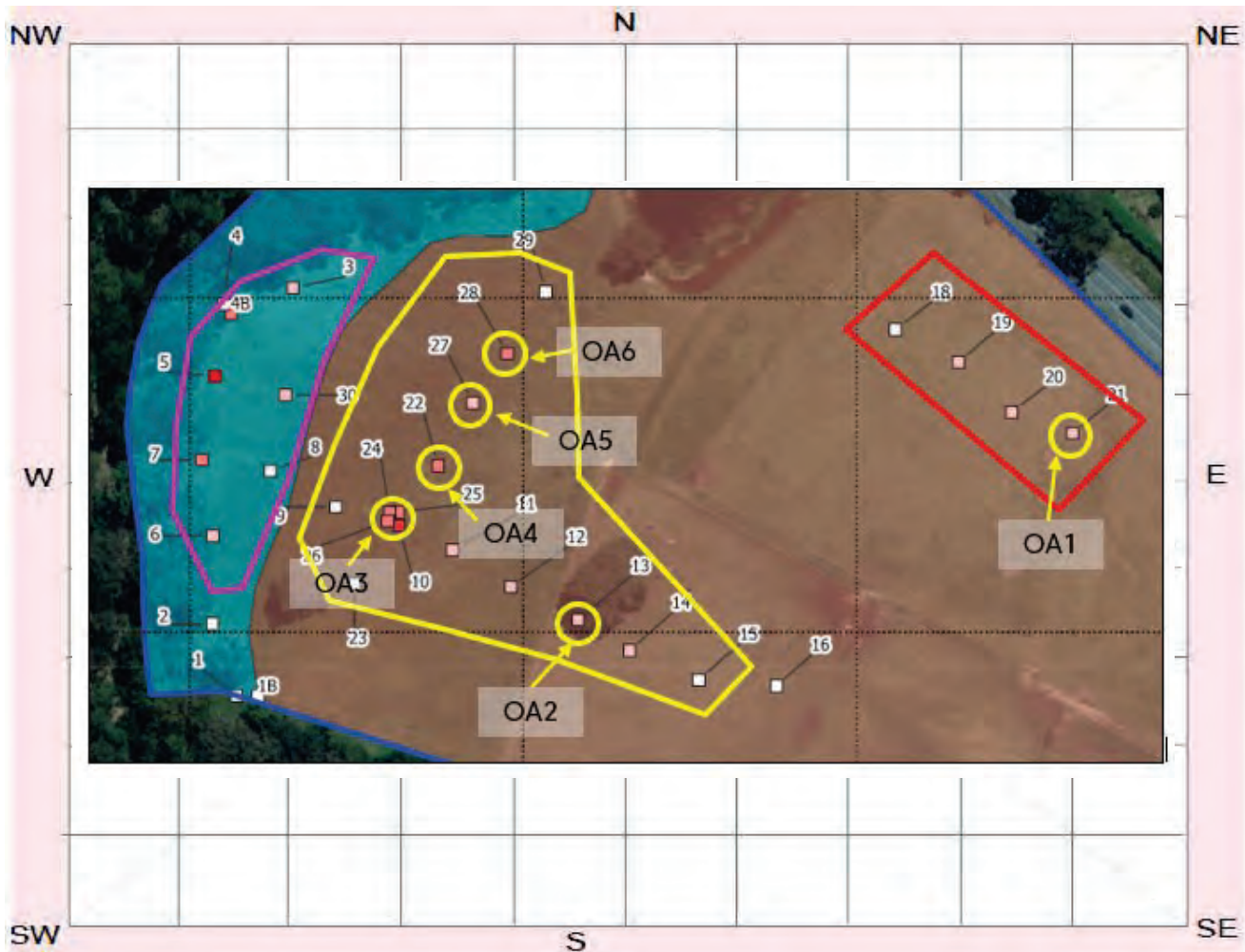
## Recorder Information:

(The person responsible for the completion and submission of this form)

Title	Surname	First name
Mrs.	Bate	Jenni
Organisation:	Apex Archaeology	
Address:	PO Box 236 Nowra NSW 2541	
Phone:	0422229179	E-mail: jenni@apexarchaeology.com.au

## Location map

Clearly demarcate the original AHIMS site boundary, show the boundaries of impacted areas and the areas where the site remains in situ. Display map coordinates.



# Site contents information

open/closed site:

Site condition:

## Features:

Feature condition:

Number of features:  Length of feature(s) extent (m):  Width of feature (s) extent (m):

1.

Scarred Trees			
Scar Depth (cm)	Regrowth (cm)	Scar Length (cm)	Scar Width (cm)
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Scar shape	<input type="text"/>	Tree Species	<input type="text"/>

## Description:

20 artefacts recovered from a 5m2 salvage pit centred over an initial test pit. Salvage pit not continued due to higher densities at other salvage locations. This pit was known as Open Area 1 (OA1).

## Features:

Feature condition:

Number of features:  Length of feature(s) extent (m):  Width of feature (s) extent (m):

2.

Scarred Trees			
Scar Depth (cm)	Regrowth (cm)	Scar Length (cm)	Scar Width (cm)
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Scar shape	<input type="text"/>	Tree Species	<input type="text"/>

## Description:

## Features:

Feature condition:

Number of features:  Length of feature(s) extent (m):  Width of feature (s) extent (m):

3.

Scarred Trees			
Scar Depth (cm)	Regrowth (cm)	Scar Length (cm)	Scar Width (cm)
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Scar shape	<input type="text"/>	Tree Species	<input type="text"/>

## Description:

## Features:

Feature condition:

Number of features:  Length of feature(s) extent (m):  Width of feature (s) extent (m):

4.

Scarred Trees			
Scar Depth (cm)	Regrowth (cm)	Scar Length (cm)	Scar Width (cm)
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Scar shape	<input type="text"/>	Tree Species	<input type="text"/>

## Description:

**Features:**

Feature condition:

Number of features

Length of feature(s) extent (m)

Width of feature (s) extent (m)

5.

Description:

Scarred Trees			
Scar Depth (cm)	Regrowth (cm)	Scar Length (cm)	Scar Width (cm)
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Scar shape	<input type="text"/>		Tree Species
			<input type="text"/>

Other Site Info:

1m2 test pits excavated in each cardinal direction around original test pit for a total of 5m2 excavated. All artefacts were of FGS material

**Methodology and results**

Summary of the methodology and results of the activity or works undertaken through the authorised impacts, as relevant to the AHIMS site

OA 1 was expanded in cardinal directions and then ceased as it (and OA2) had the lowest overall densities of any of the expanded salvage pits.

**Management recommendations**

Summary of any management recommendations for the AHIMS site

No further archaeological work recommended. Development may proceed in accordance with approved AHIP.

**Post-investigation significance**

Discuss if the scientific/archaeological or cultural significance of the site has changed in light of the results of the investigations or works conducted at the site.

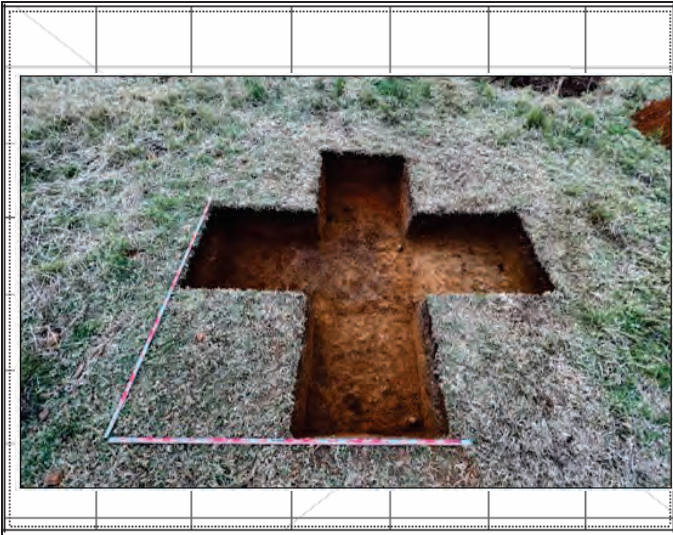
Site considered to be of low significance.

## Additional comments

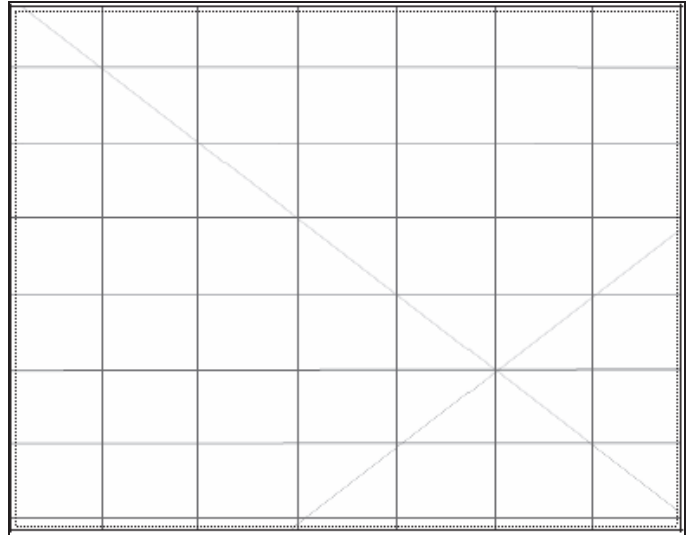
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## Site photographs

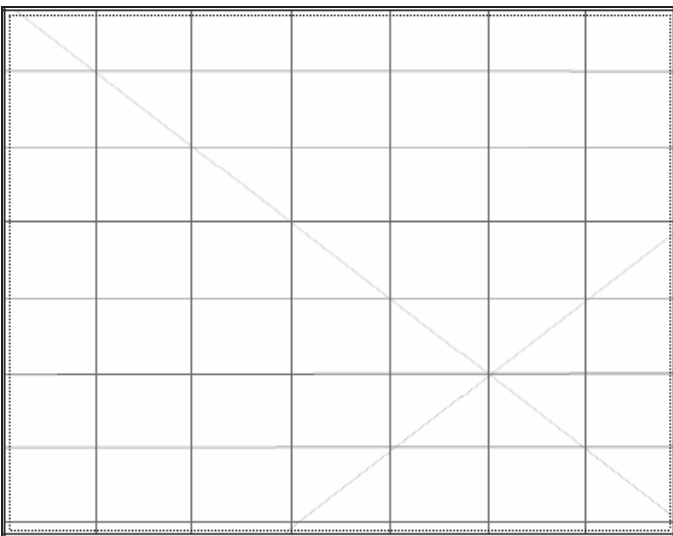
Include photographs of the authorised impacts activity, as relevant to the AHIMS site. Please keep photo size to a maximum of 200 kb.



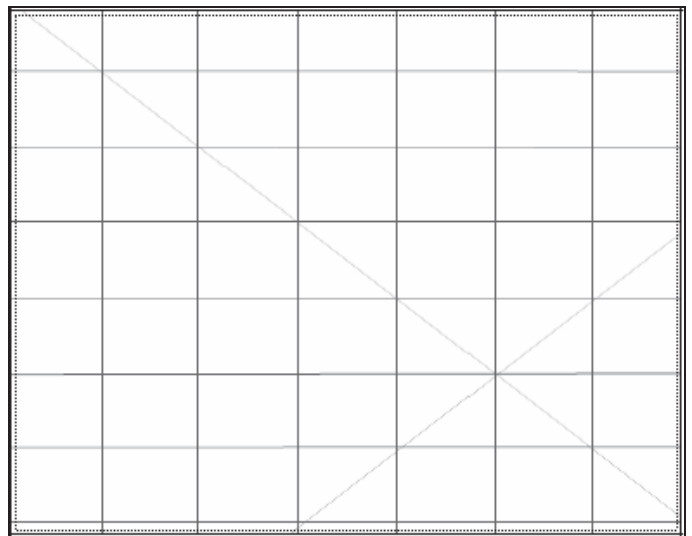
Description:



Description:



Description:



Description:

- 1 This form must be completed following impacts to AHIMS sites that are:
  - a) a result of test excavation carried out in accordance with the *Code of Practice for the Archaeological Investigation of Aboriginal Objects in NSW*
  - b) authorised by an Aboriginal Heritage Impact Permit (AHIP) issued by the Office of Environment and Heritage (OEH)
  - c) undertaken for the purpose of complying with Director General's Requirements issued by the Department of Planning and Infrastructure (DP&I) for:
    - State Significant Development (SSD - Part 4),
    - State Significant Infrastructure (SSI - Part 5.1), or
    - A Major Project (Part 3A - now repealed) under the *Environmental Planning and Assessment Act 1979 (EP&A Act)*, or
  - d) authorised by a SSD/SSI/Part 3A consent/approval under the EP&A Act.
- 2 Completed forms must be submitted to the AHIMS Registrar ([www.environment.nsw.gov.au/contact/AHIMSRegistrar.htm](http://www.environment.nsw.gov.au/contact/AHIMSRegistrar.htm)).
- 3 This form is intended to complement (not replace) the AHIMS Site Recording Form. Where there is a need to provide detailed information about the nature of a site, use the AHIMS Site Recording Form.
- 4 This form does not replace the need to submit reports to OEH (as a condition of an AHIP or SSD/SSI/Part 3A consent/approval). This form must be submitted in addition to any reports.

**AHIMS site ID:**

**Date recorded:**

Site impact authorisation (select one)	Reference numbers, dates
<input type="checkbox"/> Archaeological Code (The impacts to this site were the result of test excavation carried out in accordance with the <i>Code of Practice for the Archaeological Investigation of Aboriginal Objects in NSW</i> .)	Date OEH was notified (under requirement 15c of the Code): <input type="text"/> OEH Regional office notified: <input type="text"/>
<input checked="" type="checkbox"/> AHIP (The impacts to this site were authorised by an AHIP.)	AHIP number: <input type="text" value="5144"/> Date issued/signed: <input type="text" value="2023-08-15"/> AHIMS permit ID/number: <input type="text" value="5144"/>
<input type="checkbox"/> SSD/SSI/Part 3A application (The impacts to this site were undertaken for the purposes of complying with Director General's Requirements issued by the DP&I)	Project number: <input type="text"/> Date Director General's Requirements issued: <input type="text"/>
<input type="checkbox"/> SSD/SSI/Part 3A approved project (The impacts to this site were authorised by a consent/approval under Parts 4/5.1/3A of the EP&A Act.)	or Date of project approval: <input type="text"/>

### Site status following impacts:

- Not a site (The investigations concluded that this is not a site.)
- Valid site (The investigations confirmed that this is an Aboriginal site.)
- Partially destroyed (The site was partially destroyed following authorised impacts; a portion of the site remains in situ.)
- Destroyed (The site was completely destroyed following authorised impacts.)

## Site Location Information:

Site name:

Easting:  Northing:  Coordinates must be in GDA94 (MGA)

Horizontal Accuracy (m):

Zone:  Location method:

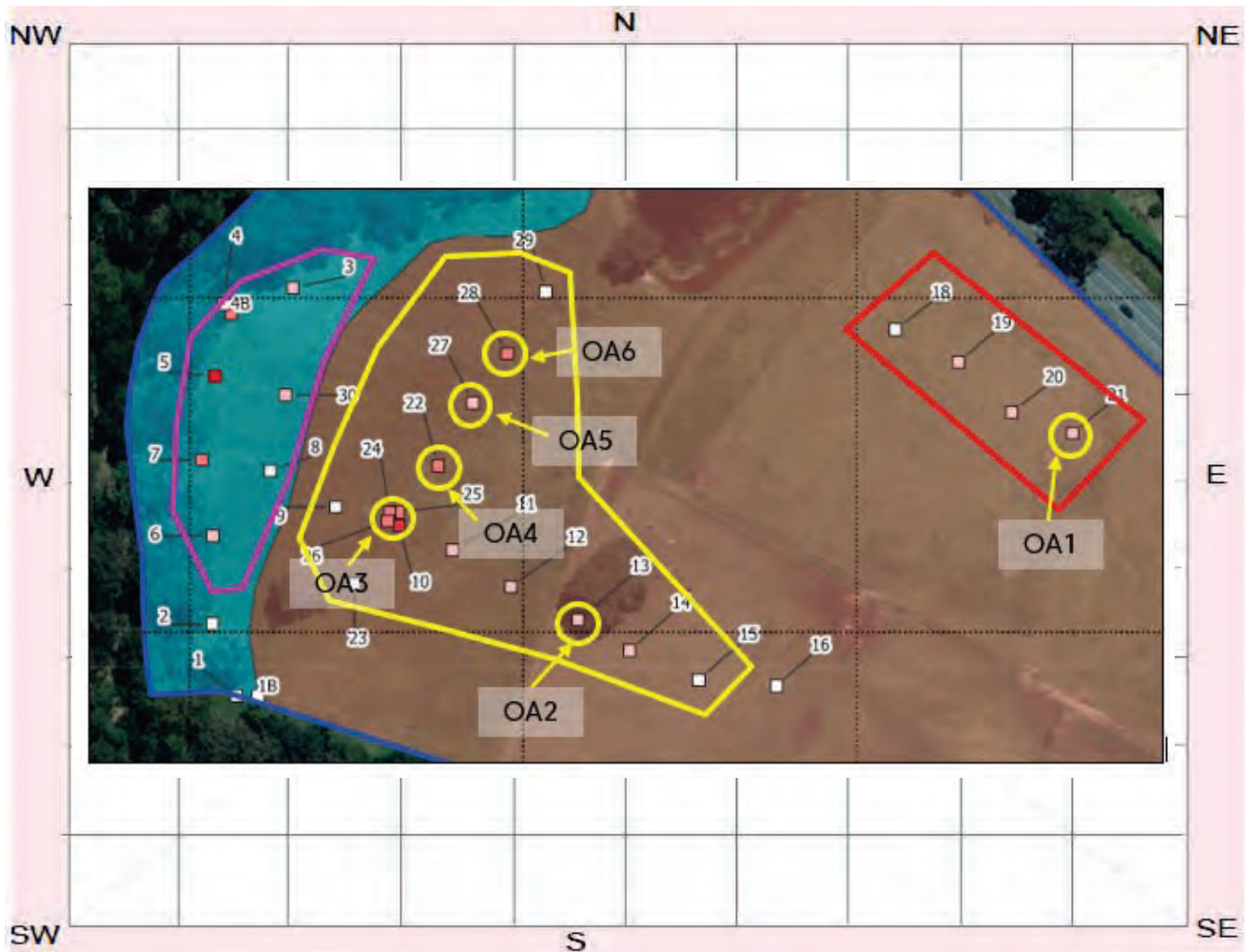
## Recorder Information:

(The person responsible for the completion and submission of this form)

Title	Surname	First name
Mrs.	Bate	Jenni
Organisation:	Apex Archaeology	
Address:	PO Box 236 Nowra NSW 2541	
Phone:	0422229179	E-mail: jenni@apexarchaeology.com.au

## Location map

Clearly demarcate the original AHIMS site boundary, show the boundaries of impacted areas and the areas where the site remains in situ. Display map coordinates.



# Site contents information

open/closed site:

Site condition:

## Features:

Feature condition:

Number of features:  Length of feature(s) extent (m):  Width of feature (s) extent (m):

1.

Scarred Trees			
Scar Depth (cm)	Regrowth (cm)	Scar Length (cm)	Scar Width (cm)
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Scar shape	<input type="text"/>	Tree Species	<input type="text"/>

## Description:

2027 items recovered from five separate salvage pits. Some disturbance present in the form of plough lines and wombat burrow excavation but generally intact, particularly below plough zone of ~30cm. Only approximately 46% of the recovered items were analysed as artefactual with the remaining items comprising heat shatters or splits along flawed stone.

## Features:

Feature condition:

Number of features:  Length of feature(s) extent (m):  Width of feature (s) extent (m):

2.

Scarred Trees			
Scar Depth (cm)	Regrowth (cm)	Scar Length (cm)	Scar Width (cm)
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Scar shape	<input type="text"/>	Tree Species	<input type="text"/>

## Description:

## Features:

Feature condition:

Number of features:  Length of feature(s) extent (m):  Width of feature (s) extent (m):

3.

Scarred Trees			
Scar Depth (cm)	Regrowth (cm)	Scar Length (cm)	Scar Width (cm)
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Scar shape	<input type="text"/>	Tree Species	<input type="text"/>

## Description:

## Features:

Feature condition:

Number of features:  Length of feature(s) extent (m):  Width of feature (s) extent (m):

4.

Scarred Trees			
Scar Depth (cm)	Regrowth (cm)	Scar Length (cm)	Scar Width (cm)
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Scar shape	<input type="text"/>	Tree Species	<input type="text"/>

## Description:

**Features:**

Feature condition:

Number of features

Length of feature(s) extent (m)

Width of feature (s) extent (m)

5.

Description:

## Scarred Trees

Scar Depth (cm)

Regrowth (cm)

Scar Length (cm)

Scar Width (cm)

Scar shape

Tree Species

Other Site Info:

Total of 64m<sup>2</sup> excavated across five separate salvage pits. Largest pit was 22m<sup>2</sup> and contained 844 lithics. Raw materials included FGS (including items considered chert, jasper, chalcedony by other analysts), tuff, silcrete, quartzite, quartz, and silicified wood.

**Methodology and results**

Summary of the methodology and results of the activity or works undertaken through the authorised impacts, as relevant to the AHIMS site

OAs 2-6 were excavated within this site. All OAs were expanded in cardinal directions. OA 2 then ceased as it had the lowest overall densities of any of the expanded salvage pits within this area. OAs 3, 4, 5 and 6 followed the density of the deposit and were expanded further. In total, 64m<sup>2</sup> was excavated within this registered site boundary, and 69m<sup>2</sup> in total within 25 Moss Vale Road.

**Management recommendations**

Summary of any management recommendations for the AHIMS site

No further archaeological work recommended. Development may proceed in accordance with approved AHIP.

**Post-investigation significance**

Discuss if the scientific/archaeological or cultural significance of the site has changed in light of the results of the investigations or works conducted at the site.

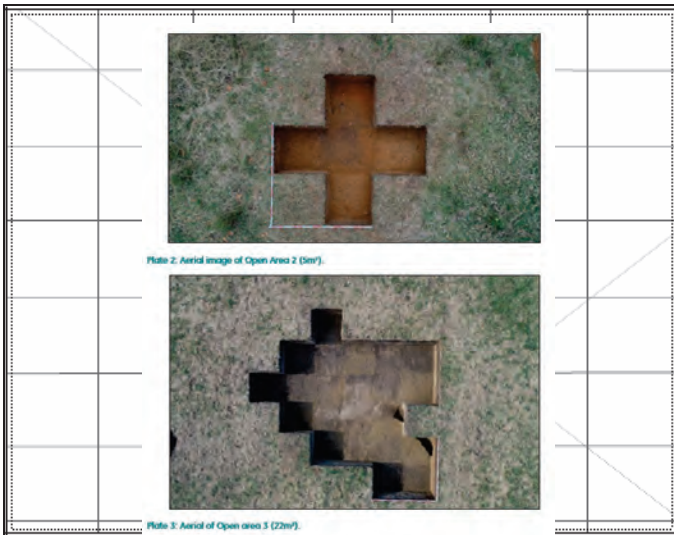
Site considered to be of low to moderate significance.

## Additional comments

The assemblage occurs as a continuous low to mod density scatter of objects across the lower slope landform approx 100 m of Bomaderry Creek. While there may have been some spatial displacement by modern agricultural activities, it appears that many small-scale flaking, discard and breakage activities were carried out across the site. The continuous spread of objects of diverse material types suggests numerous repeat visits, with activities carried out in many locations, usually overlapping.

## Site photographs

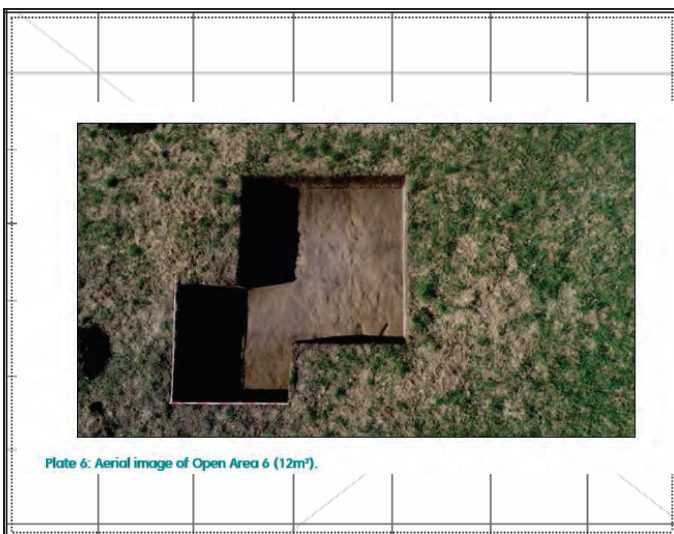
Include photographs of the authorised impacts activity, as relevant to the AHIMS site. Please keep photo size to a maximum of 200 kb.



Description: OAs 2 & 3 on completion



Description: OAs 4 & 5 on completion



Description: OA 6 on completion



Description: Plough lines visible in salvage pit



## **APPENDIX C: ABORIGINAL CONSULTATION**



From: [jenni@apexarchaeology.com.au](mailto:jenni@apexarchaeology.com.au)  
To: "Undisclosed Recipients"  
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Subject: 25 Moss Vale Road, Bomaderry - Salvage report and project update  
Date: Monday, 15 September 2025 11:37:52 AM  
Attachments: [22206 Moss Vale Road Draft Salvage Report.pdf](#)

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Good morning,

I hope you're well. Your details were provided by Austral Archaeology as a registered stakeholder for the above project. Following issue of the AHIP in August 2023, Apex Archaeology undertook salvage excavations within the site. Please see the attached salvage report for your information.

Additionally, the project was originally approved through a development application process. The project has since been altered to a Stage Significant Development (SSD) approval process and the proposed layout for the site has changed slightly. Please see the amended figures in the attached salvage report.

Heritage NSW have requested that you be given an opportunity to comment on the updated proposed works and approval pathway for the project. I would be grateful to receive any comments you may have on the project by CoB 13 October 2025.

Please don't hesitate to get in touch if you have any questions.

Kind regards,

