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**From:** noreply@feedback.planningportal.nsw.gov.au on behalf of Planning Portal - Department of Planning and Environment <noreply@feedback.planningportal.nsw.gov.au>  
**Sent:** Friday, 12 March 2021 11:00 PM  
**To:** PPO Engagement  
**Cc:** eplanning.exhibitions@planning.nsw.gov.au  
**Subject:** Webform submission from: Western Sydney Aerotropolis Draft Precinct Plans  
**Attachments:** 218005\_mirvac\_aerotropolisppsub\_revd-without-attachments.pdf

Submitted on Fri, 12/03/2021 - 22:58

Submitted by: Anonymous

Submitted values are:

**Submission Type**

I am submitting on behalf of my organisation

## Name

**First name**

Russell

**Last name**

Hogan

**I would like my submission to remain confidential**

No

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**Email**

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**Submission file**

[218005\\_mirvac\\_aerotropolisppsub\\_revd-without-attachments.pdf](#)

**Submission**

Please see attached Mirvac submission to the Western Sydney Aerotropolis draft Precinct Plans.

Please note, this submission does not include the attachment files and detailed site studies. These will be provided separate the submission as have been unable to upload.

**I agree to the above statement**

Yes

## Disclaimer



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12 March 2021

Western Sydney Aerotropolis Precinct Plans Team  
Department of Planning, Industry and Environment  
4 Parramatta Square, 12 Darcy Street,  
Parramatta NSW 2150

## **WESTERN SYDNEY AEROTROPOLIS DRAFT PRECINCT PLAN**

This submission has been prepared by Ethos Urban on behalf of Mirvac Projects Pty Ltd (Mircac), in response to the Department of Planning, Industry and Environment's (DPIE) release of the Western Sydney Aerotropolis Draft Precinct Plan (Draft Precinct Plan). Mircac welcomes the opportunity to provide comment on the Draft Precinct Plan, noting release and finalisation of the Precinct Plan is an important step in the delivery of the Western Sydney Aerotropolis (the Aerotropolis), and thanks the Planning Partnership for the opportunity to meet on 3 March 2021 to better understand the Precinct Planning objectives ahead of providing this submission.

Mircac is an active participant in the Western Sydney industrial and employment land market, with a strong track record of achieving high quality outcomes and with two key employment estates within the Aerotropolis (Badgerys Creek and Mamre Road Precincts), and has previously made numerous submissions throughout the evolving strategic planning framework for the area, to enable the efficient delivery of employment land in support of the Western Sydney International (Nancy Bird Walton) Airport (WSIA).

Of particular relevance to this submission is Mircac's interest in the site at 1669-1732 Elizabeth Drive, Badgerys Creek, which sits within the Badgerys Creek and Wianamatta-South Creek Precincts of the Draft Precinct Plan. The site is known as the Elizabeth Enterprise Precinct (EEP) West. The EEP West site forms the basis of this submission and the Draft Precinct Plan anticipated impacts on its future development.

Mircac's vision for the EEP West is to develop an industry leading and connected employment precinct focused on quality, technology, flexibility and sustainability which complements the nearby Western Sydney International Airport (WSIA) and the vision for the Aerotropolis. Mircac would welcome the opportunity to present the vision for the EEP West to the government as the earliest opportunity as well as specific initiatives which are currently being advanced as part of the design response for this precinct.

Mircac wish to commend government for expediting the release of the Draft Precinct Plans notwithstanding the Covid-19 constraints in 2020, however believe some amendments are required to ensure the general objectives of the Precinct Plan and WSA SEPP are achieved with appropriate guidelines for future development.

To ensure the successful delivery of the Aerotropolis, Mircac requests the consideration of the comments and recommendations within this submission prior to finalisation of the Draft Precinct Plan. In particular, this submission provides several key recommended changes to the Draft Precinct Plan to improve its effectiveness as a strategic, land use and planning framework and ensure that its implementation facilitates appropriate economic development within the context of the vision for the Aerotropolis and broader Western Parkland City, and not result in-efficient, inflexible and unfeasible development.

This submission is made up of several sections, relating to:

- General comments on the Draft Precinct Plan and the process (Section 3.0);
- Comments on the State Environmental Planning Policy (Western Sydney Aerotropolis) 2020 (WSA SEPP) as gazetted (Section 3.1);
- The Badgerys Creek Precinct (Section 4.0);
- The impacts of the Draft Precinct Plan on the EEP West site (Section 5.0); and

- Comments on the objectives and requirements for development within the area affected by the Draft Precinct Plan (Section 6.0).

It is supported by additional commentary provided by specialist consultants including:

- Biodiversity and Riparian Assessment prepared by Ecological Australia (**Attachment A**);
- Elizabeth Enterprise Precinct (Stage 1) Non-Aboriginal Salvage Excavation Archaeological Research Design (2020) as prepared by Artefact for a previous Mirvac development application (**Attachment B**); and
- Elizabeth Enterprise Precinct (Stage 1) Aboriginal Cultural Heritage Assessment Report (2020) prepared by Artefact (**Attachment C**).

## 1.0 Key Recommendations

In general, it must be re-affirmed that the enterprise land use within the subject site is supported and is complementary to the market demand for flexible, large scale and functional buildings in this location. The final form of the Precinct Plan needs to respond to the functional and feasible requirements of this land use. The proposed controls in the Draft Precinct Plan appear to relate more closely to a light industrial scale land use and do not support the breadth of larger format uses contemplated in this precinct.

Prior to finalisation of the Draft Precinct Plan, it is respectfully requested that further consultation be undertaken to understand industry needs to better align the Parkland City objectives with practical and feasible development controls to ensure that the precinct can be delivered in an appropriate, efficient and timely manner.

A summary of the key recommendations and comments is provided below and elaborated on throughout this submission. To assist, this submission provides mark-ups of several figures that are requested to be amended prior to finalisation of the Precinct Plan.

**Table 1 Key recommendations and comments**

No.	Key Recommendations and Comments	Submission Section
1	The Precinct plan is <b>too prescriptive and needs to focus on the key principles and objectives</b> which are considered important whilst providing sufficient flexibility for the detail to evolve in the next stage of detailed planning (DCP Stage 2, Master planning and site specific Concept Plans and development applications). As the Precinct Plan is a requirement under the WSA SEPP it needs to be very clear in the SEPP or Precinct Plan where flexibility does exist so that it is not interpreted too prescriptively by assessment authorities.	Section 3.0
2	The studies which inform the <b>Draft Precinct Plan have not been sufficiently validated by detailed studies for EEP</b> (in particular heritage, riparian etc.) which has resulted in identification of constraints which have been validated as not being the case in detailed studies.  For example detailed studies completed by Mirvac confirm that there is <b>no riparian and no heritage constraints</b> in those areas where the Draft Precinct Plan indicate these are constraints within EEP West.  This detail should be removed from the Draft Precinct Plan and included in the subsequent Development Control Plan, but only following sufficient site validation or detail site investigations.	Section 3.0 Section 5.2 Section 5.3
3	Mirvac commend government for expediting the release of the Draft Precinct Plans notwithstanding the Covid-19 constraints at this time however respectfully request more detailed consultation with landowners to provide greater understanding of site details and vision for proposed development and avoid sub optimal land use outcomes.	Section 3.0
4	A <b>merit based provision</b> allowing <b>justified variations</b> (i.e. road network functionality, specific user requirements, detailed site investigations etc) to the Precinct Plan should be included to ensure the most <b>appropriate outcome for a site can be achieved</b> where it still meets the <b>general objectives</b> of the Precinct Plan and WSA SEPP whilst permitting sufficient flexibility as to how this objective is realised in the final plans.	Section 3.0 Section 3.1.4 Section 5.5

5	<p>The proposed <b>provision of open space on EEP West Enterprise zoned land is not required</b> and imposes an unreasonable cost for development. In particular:</p> <p><b>the entire footprint of EEP is within a 400m walk to open space</b> for worker amenity and thus does not give rise to the need for additional open space within the estate.</p> <p>EEP West is situated under the flight path of the WSIA and as such, development of open space with substantial landscaping elements may create wildlife hazards and would be located in areas of lower acoustic amenity.</p> <p>EEP West already comprises of over <b>40 ha of open space which is 30% of the site EEP West's site area and thus has ample provision of open space without reducing developable area within the proposed estate.</b> Additionally, in detailed site verification studies there are no identified constraints of a riparian or heritage nature in the location of the proposed open space. The scale of this open space is entirely inconsistent with a location for workers to enjoy respite during lunch breaks since it measures approx. 6 x football fields and thus is too large. The concept for EEP is to celebrate the approx. 3.3km long frontage to South Creek as the key unifying open space element.</p>	Section 5.1
6	<p>The Badgerys Creek Precinct has been identified as an initial <b>'first priority'</b> and it is imperative this remain the case in the final Precinct Plan.</p> <p>There is <b>extensive customer demand and significant assessment work already undertaken</b> of this precinct to ensure it is <b>'shovel ready'</b> as soon as possible to make an important contribution to early employment outcomes and catalyst development in advance of Airport operations and can be <b>delivered in line with existing and planning infrastructure.</b> Additionally EEP West has direct frontage with Elizabeth Drive and servicing solutions are already substantially advanced.</p>	Section 4.0
7	<p><b>Key development controls within the Badgerys Creek Precinct (North) and EEP West should be consistent with the Mamre Road Precinct</b> (within the Western Sydney Employment Area [WSEA]). Given the site is constrained by the ANEF noise contour, market analysis and extensive discussion with occupiers inform that the proposed land use is anticipated to be consistent with that of Mamre Road Precinct. It is thus recommended that the key development controls (e.g. road reservations, setbacks etc.) should be consistent with the Mamre Road Precinct.</p> <p><b>This would ensure consistency in employment development controls,</b> given the proposed employment uses across both the EEP West and Mamre Road Precinct due to the WSIA flight path overlay and noise affectation.</p> <p>Additionally, the EEP East site, which partly sits within the Mamre Road Precinct, is anticipated to ultimately connect through to the EEP West site and as such consistency in design will be crucial to ensure connectivity is successful.</p>	Section 4.0 Section 6.0
8	<p><b>Amenity of the Badgerys Creek Precinct needs to be flexible and appropriately scaled</b> to suit demand and should be subject to detailed planning. An approximately 8ha 'Enterprise Centre' within EEP West is too large given any centre is likely to primarily service the local employment uses. It is expected that a smaller scale of amenity to suit the local needs of workers is the most likely need and thus the proposed size should be flexible to accommodate this amenity and allow to be 'right sized' for need.</p>	Section 4.0 Section 5.1
9	<p>There are significant identified concerns with the proposed integrated water cycle management, with opposing built form controls which increase pervious surfaces as a solution and the potential imposition of a Mean Annual Runoff reduction volume (MARV) represents a significant departure to accepted practice which would have significant consequences on the development and employment potential of the precinct. It would also significantly undermine the competitiveness of Precinct, particularly when compared to the Melbourne and Brisbane markets, which are already extremely challenged compared to historical averages.</p> <p><b>While simple application of the MARV target may be attractive in an administrative sense, its application potentially has some significant practical issues and unintended outcomes that may be less effective in waterway protection compared to a more rigorous approach of mimicking key flow characteristics of the natural waterway to be protected.</b></p> <p>Mirvac suggest the blanket application of the proposed MARV reduction across the Aerotropolis is not consistent with the EPA's Risk-based Framework for Considering Waterway Health Outcomes in Strategic Land-Use Planning Decisions report given it does not consider specific site conditions.</p>	Section 6.0
10	<p>The Elizabeth Drive upgrade should only require a 10m landscape setback given future character with proximity to airport which is supported, noting this landscaping will need to be limited due to potential wildlife hazards.</p>	Section 6.0

11	Minimum subdivision size needs to permit sufficient flexibility in terms of site layouts and design and should not impose a minimum lot size.	Section 6.0
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In addition, there are several recommendations regarding specific development objectives and controls as addressed in **Section 6.0** below. These are summarised in **Table 2**.

**Table 2 Recommendations on objectives and controls**

Section of the Draft Precinct Plan	Recommendation
1.1 Vision	<b>Recommendation</b> Ensure the Vision of the Draft Precinct Plan clearly recognises the drivers for Business as Usual including the feasibility of land use and market drivers and customer requirements
1.3 Precinct Plan purpose	<b>Recommendation</b> Prescriptive detail should be removed from the Draft Precinct Plan and included in the subsequent Development Control Plan, but only following sufficient site validation or detail site investigations.
1.4 Applying the Precinct Plan	<b>Recommendation</b> Ensure the Precinct Plan is a high level, strategic document with general objectives. This would remove the time consuming and expensive exercise of undertaking a concurrent Planning Proposal each time a development seeks to amend the Precinct Plan as currently drafted.
2.1 Precinct Planning Drivers: Circular Economy	<b>Recommendation</b> The circular economy should explicitly include re-use of fill from infrastructure projects outside the precinct, with a multitude of State Significant Infrastructure projects having surplus clean fill suitable for re-use within the Aerotropolis.
3.2 Blue Green Infrastructure Network: Principle 12	<b>Recommendation</b> It is understood the requirement for deep soil may have been driven from achieving the waterway health MARV volumetric reduction target. The requirement for deep soil should be applied as an estate-wide target of 10-15% in-line with landscaping targets and include designated open space areas.
3.2.5 Integrated water management and water sensitive urban design	<b>Recommendation</b> BG6 should provide that piped stormwater management solutions be acceptable rather than sterilising land to achieve the same outcome.
3.2.6 Undisturbed Soil Network	<b>Recommendation</b> <ul style="list-style-type: none"> <li>• BG1 needs to be more specific that this applies to Horizon A and B only.</li> <li>• Remove BG4 relating to canopy cover from the Precinct Plan.</li> <li>• Remove BG5 from the Precinct Plan as this is more appropriately placed within the DCP.</li> </ul>
3.3.2 Active Transport	<b>Recommendation</b> It is recommended that the east-west route of the cycle path be classified as a 'cycle path within the streetscape', rather than 'off-road'.
3.3.5 Road network	<b>Recommendation</b> It is strongly recommended that the road typologies within the Badgerys Creek Precinct be consistent with those in the Draft Mamre Road DCP to ensure consistency in development across the two employment precincts.
3.3.8 Street hierarchy and typology	<b>Recommendation</b> Remove all road typologies below a collector road from the Street Hierarchy and Network map to enable flexibility, and provide for local road networks within the Phase 2 DCP.
3.4.2 Land use and built form	<b>Recommendation</b> LU10 relating to cross ventilation is not a suitable objective for large format warehousing and should be removed or amended to be clear that it does not apply to this type of development.
3.4.3 Height	<b>Recommendations</b> A merit clause to allow for higher development should be incorporated consistent with the Draft Mamre Road DCP which provides that a taller built form is to demonstrate mitigation of solar and visual impacts to the surrounding uses and public amenity, and be accompanied by a visual impact assessment by a suitably qualified consultant.

Section of the Draft Precinct Plan	Recommendation
3.6 Sustainability and Resilience framework	<b>Recommendation</b> <ul style="list-style-type: none"> <li>Amend SR06 and/or SR07 to include the re-use of VENM material from major infrastructure projects as being a supported activity within the Aerotropolis.</li> <li>Remove SR8 which seeks to prioritise the use of materials from within a 30km radius.</li> </ul>

## 2.0 The Elizabeth Enterprise Precinct

### 2.1 Site location and context

The EEP West site is located north of Elizabeth Drive, Badgerys Creek within the Penrith Local Government Area (LGA). The site is located approximately 15km south-east of the Penrith CBD and 40km west of the Sydney CBD, and approximately 800m to the east of the currently under construction WSIA. The location of the site within its surrounding context is shown in **Figure 1**.

The site comprises a 133-hectare contiguous sub-precinct of the broader EEP which extends further to the east within the adjacent Mamre Road Precinct. Stage 1 of the EEP, the immediate focus for Mirvac, has an area of 54.41ha.

The site is irregular in shape, with direct frontage to Elizabeth Drive (southern boundary) of approximately 540m and a public access road (western boundary) of approximately 590m. In addition to the public access road, the site's western boundary adjoins the existing SUEZ Resource Recovery Park of approximately 920m. The site's eastern boundary of approximately 3.4km is formed by the alignment of South Creek, while the northern boundary of approximately 1km sits adjacent to similar Aerotropolis land.

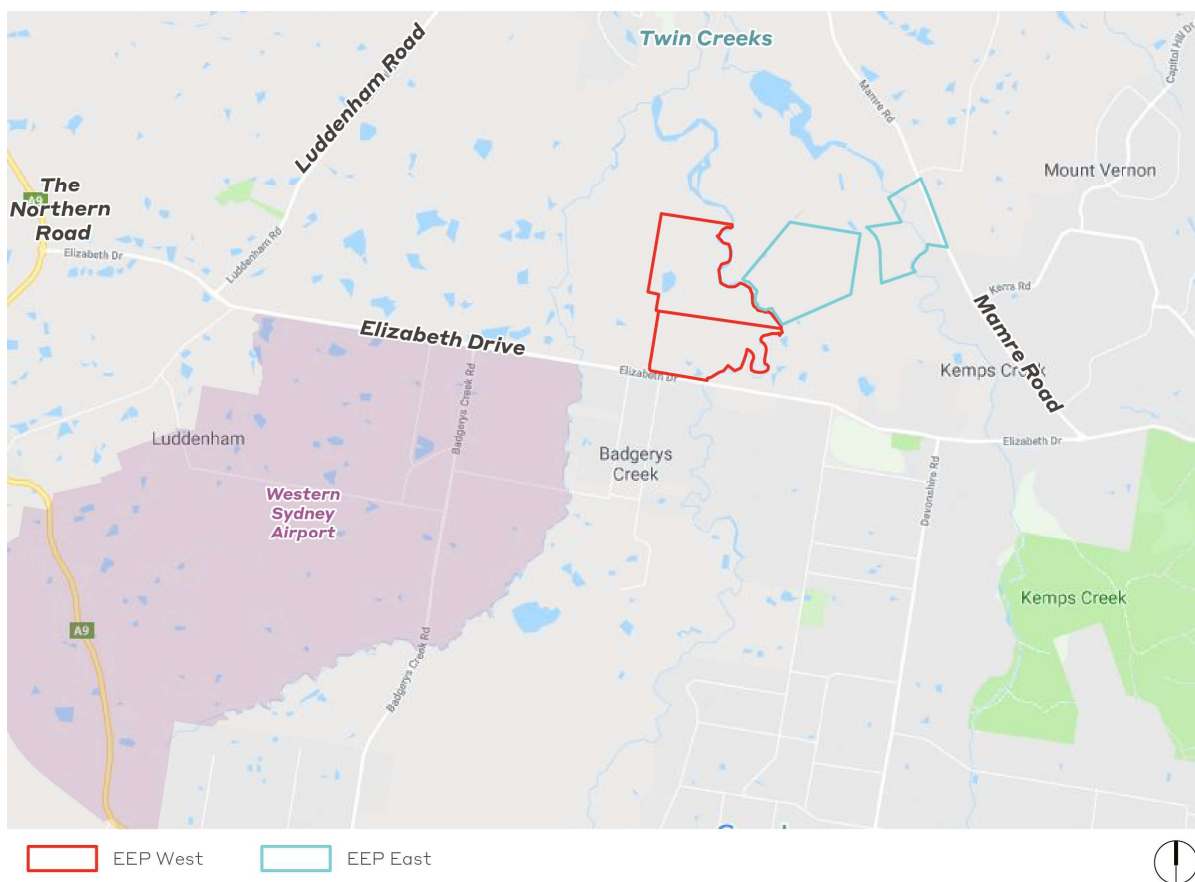
The site was rezoned as part of the gazettal of the State Environmental Planning Policy (Western Sydney Aerotropolis) 2020 (WSA SEPP) and is zoned as Enterprise (ENT) for the area comprising the Badgerys Creek Precinct, with the Wianamatta-South Creek Precinct portion of the site zoned as Environment and Recreation (ENZ).

Key features of the proposed EEP West include:

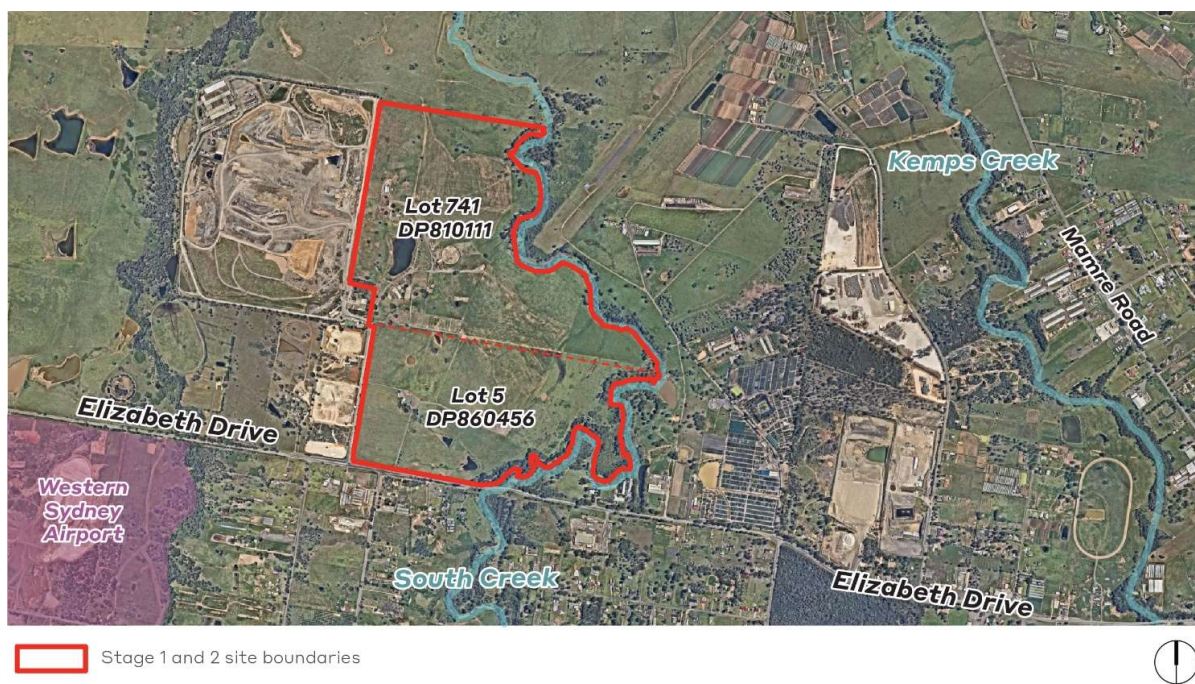
- Placemaking design principles that is connected to country and landscape and responds to Wianamatta South Creek;
- Activation and enhancement of approximately 40ha of South Creek for rehabilitation to provide green grid and an open space network that connects pedestrian and cycle paths with employment and amenities, as well as water management;
- Approximately 82ha of land for flexible employment;
- An identified area of land for local amenity (subject to detailed analysis of requirements);
- A road network that provides flexibility for both staging and intensity which supports key connections to open space and amenity; and
- Creation of key view corridors towards South Creek.

Importantly, the broader vision for the EEP West site is entirely consistent with that of the Draft Precinct Plan, being the delivery of key employment land supporting the development and establishment of the WSIA. In particular, it is consistent with the principles of the Badgerys Creek Precinct, and as such will be a key catalyst for development within this area.





**Figure 1** EEP West boundaries within the surrounding context



**Figure 2** Aerial photograph identifying the extent of the site

### 3.0 General Comments on the Draft Precinct Plan and Process

Mirvac and its consultant team have reviewed the Draft Precinct Plan and have a number of concerns that require additional clarification or reconsideration prior to finalisation of these important strategic documents. Further detailed comments are provided in **Appendix A**.

The most critical aspect of the Draft Precinct Plan is that they are inconsistent with the level of strategic planning proposed in the WSA SEPP. Specifically, the Draft Precinct Plan as exhibited is far too prescriptive and shows significant detail not required for broader strategic planning documents. The Draft Plans should show, at most, high level land use and development outcomes, including indicative collector road alignments, and not the fine grain local streets as shown within the Draft Precinct Plan unless these are clearly noted as indicative. The requirements of the Draft Precinct Plan are more appropriate for the Phase 2 DCP and should include flexibility to pursue alternative solutions where the objectives of the Precinct Plan (when finalised) can be met and to enable flexibility for the orderly and timely development of land.

It also appears that the Draft Precinct Plan has not utilised existing detailed technical studies prepared by landowners which were offered to assist. This is particularly noticeable through the Planning Proposal package submitted to the Planning Partnership in support of rezoning of the EEP West site, which has not been reviewed or considered in sufficient detail by the Draft Precinct Plan, noting there are substantial inconsistencies between that Planning Proposal package and the information within the exhibited Draft Plan. Additionally, landowners were consulted towards the end of the process, and the benefit of their site planning therefore appears to have not been included due to the timeframes associated. The benefit of Landowner's technical studies and proposed designs had the potential to streamline the process and assist with the preparation of the Draft Precinct Plan.

Mirvac understands that Precinct Planning process is a 'design led' process. However there appears to be limited consideration given to the highly functional needs industrial and warehouse development to meet industry demand. A more flexible approach to cater for a range of airport related / complementary uses, especially in the areas close to the airport is supported. This flexibility needs to be embedded in a planning regime, that enables, not stifles catalytic development. The design led process also needs to better consider on-the-ground constraints of greenfield development such as land ownership, topography and existing approvals in place. The strict design controls proposed in the draft Precinct Plan have the potential to stymie the desired economic outcomes of the Aerotropolis and creates the risk that assessment planners will interpret too prescriptively to enable appropriate flexibility for market needs.

In particular, Mirvac have concerns with the typical road cross sections, which essentially propose wider road reserves compared to the draft Western Sydney Street Design Guidelines 2020 and recommend these area reviewed to ensure consistency across precincts of similar use.

Mirvac understands and supports the Western City Parkland objectives, however these need to be balanced with practical, feasible and realistic outcomes. The Draft Precinct Plan should consider these elements, like the Western Sydney Employment Area (WSEA) subject to the State Environmental Planning Policy (Western Sydney Employment Area) 2009 (WSEA SEPP), which strongly advocates and enables best practice outcomes, for example the Calibre development by Mirvac.

The Draft Precinct Plan lacks flexibility and the ability to implement alternate solutions, which should be incorporated to ensure that merit based outcomes can be supported, including variations to the proposed layouts within the Precinct Plan.

Key road corridors should be confirmed within the Precinct Plan as primary connections subject to detailed alignment design with indicative local roads (and options) shown within the DCP and subject to road network modelling outcomes.

In their current form, the Draft Precinct Plan will significantly impede the catalytic development in the Aerotropolis through implementing controls applicable to an end state (e.g. 2056) development, rather than introducing controls that enable interim uses to be delivered (e.g. 2020 to 2030, 2031 to 2040 etc). It is noted that a key concern for all occupiers seeking to relocate to this new precinct will be perception of planning risk in terms of them being able to



secure the new premises they need for their business needs – the success of the Aerotropolis will be increased to the extent that certainty can be improved.

There is a need to align the Aerotropolis Enterprise zone controls (especially within the ANEC 20 noise contour) within the northern Badgerys Creek Precinct with those for the Mamre Road Precinct for consistency. Furthermore, the Enterprise zone provisions in the Draft Precinct Plan need to ensure consistency with the Mamre Road Precinct in the WSEA and other employment precincts which have evolved to create high amenity and design quality development.

The provision of open space throughout the Draft Precinct Plan is unclear, with a lack of clarity in terms of the function and quantum in employment areas remote from residential development. It is not clear who will eventually own the open space areas. Additionally, areas of open space adjacent to South Creek should be included within any future development's open space calculations.

Finally, there are significant concerns about the master planning approval process, the timeframes associated with this process and the value of outcomes in terms of complying development rights. Notwithstanding that the WSA SEPP refers to Master Plan Guidelines as having been issued on 1 October 2020, no such guidelines have been published casting further concerns on the overall value of the process in terms of timing and delivering development outcomes.

No.	Comment/Recommendation
1	The Precinct plan is <b>too prescriptive and needs to focus on the key principles and objectives</b> which are considered important whilst providing sufficient flexibility for the detail to evolve in the next stage of detailed planning (DCP Stage 2, Master planning and site specific Concept Plans and development applications). As the Precinct Plan is called up under the WSA SEPP it needs to be very clear in the SEPP or Precinct Plan where flexibility does exist so that it is not interpreted too prescriptively by assessment authorities.
2	<p>The studies which inform the <b>Draft Precinct Plan have not been sufficiently validated by detailed studies for EEP</b> (in particular heritage, riparian etc.) which has resulted in identification of constraints which have been validated as not being the case in detailed studies.</p> <p>For example detailed studies completed by Mirvac confirm that there is <b>no riparian and no heritage constraints</b> in those areas where the Draft Precinct Plan indicate these are constraints.</p> <p>This detail should be removed from the Draft Precinct Plan and included in the subsequent Development Control Plan, but only following sufficient site validation or detail site investigations.</p>
3	Mirvac commend government for expediting the release of the Draft Precinct Plans notwithstanding the Covid-19 constraints at this time however respectfully request more detailed consultation with landowners to provide greater understanding of site details and vision for proposed development and avoid sub optimal land use outcomes.
4	A <b>merit based provision allowing justified variations</b> (i.e. road network functionality, specific user requirements, detailed site investigations etc) to the Precinct Plan should be included to ensure the most <b>appropriate outcome for a site can be achieved</b> where it still meets the <b>general objectives</b> of the Precinct Plan and WSA SEPP whilst permitting sufficient flexibility as to how this objective is realised in the final plans.

### 3.1 State Environmental Planning Policy (Western Sydney Aerotropolis) 2020

There are several matters that should be considered regarding the WSA SEPP which was not publicly exhibited in draft form for consultation prior to its gazettal in September 2020.

#### 3.1.1 Lack of clear relationship between Precinct Plan and Master Plans

This includes a lack of connectivity between the proposed master planning process, the Precinct Plan and the WSA SEPP itself. In particular there is no direct link between these processes, noting that the master plan guidelines, as referred to under Clause 43, have not yet been released (yet are referred to as being available on the NSW Planning Portal from 1 October 2020, which is not the case). The lack of connection and consistency between these requirements should be clarified and confirmed.

### 3.1.2 Restrictions on the use of Exempt and Complying Development

There is also a concern with the limited availability for complying development to be undertaken. In effect this will have significant issues for development in the Aerotropolis moving forward, as most developments will need to pass through the development application pathway. It is imperative that there is the ability for complying development to be expanded to include the majority of sites, rather than those above 100ha that are utilising the master planning process. It has been a consistent policy of successive NSW governments to reduce the quantum of development required to be approved through the development application process, culminating in the review of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 which significantly expanded the scope of exempt and complying development. The limiting of complying development opportunities in the precinct is detrimental to an efficient planning system and will be a brake on development in the Aerotropolis.

### 3.1.3 Design Excellence

Part 5 of the WSA SEPP identifies the need for design excellence, which is agreed to be an important aspect of development. However, the application of this requirement, specifically the need for a design review panel for sites of a CIV of more than \$20m, or a site area of at least 5,000m<sup>2</sup> or a gross floor area of 7,500m<sup>2</sup>, is highly restrictive as this will capture even the smallest types of developments (particularly small sheds for logistics and warehousing) or development not even involving the erection of a building (e.g. >5,000m<sup>2</sup> of earthworks). These requirements will impede the opportunity to develop small to medium sized projects given the low requirement that will trigger a design review panel. Additionally, the trigger for an architectural design competition (being a CIV of \$40m) means that any development for State Significant Development (which is triggered for a CIV of \$50m or greater) is required to utilise this process (which has not yet been clarified), at substantial expense to landowners and developers. While Mirvac is committed to achieving design excellence, it should be noted that logistics and warehouse style development are limited in terms of design flexibility, particularly given the strict specifications required by both developers and future tenants to meet their needs for operational purposes. Additionally, a design excellent approach at the concept or estate level in lieu of individual buildings may provide a more streamlined approach for occupiers who need certainty and reduced delivery timeframes without detracting from design aspirations.

### 3.1.4 Lack of mechanisms to vary a Precinct Plan

The WSA SEPP needs to ensure there is some form of flexibility for variations to the Precinct Plan when finalised, to allow for site-specific justified variations to form part of development applications for sites, rather than requiring developers to proceed down the master plan process. The WSA SEPP should incorporate a provision that where the Precinct Plan provides for an unsuitable outcome for a site has not been sufficiently validated by studies, an application can be submitted that provides for a suitable alternate solution. This will assist with ensuring development can proceed and will be available to support the operation of the WSIA upon opening in 2026. As such, it is considered the below amendment is required. Words to be deleted are shown in bold strikethrough and words to be added in bold italics.

## Part 7 Precinct plans and master plans

### Division 1 Precinct plans

#### 41 Development must be ~~consistent~~ *generally in accordance with precinct plan*

**(1)** Development consent must not be granted to development on land to which a precinct plan applies unless the consent authority is satisfied that the development ~~is consistent with~~ *generally in accordance with* the precinct plan.

**(2)** *Development consent may, subject to this clause, be granted for development even though the development would be inconsistent with a development standard or requirement imposed by the precinct plan, where the Applicant can demonstrate that:*

- a. Compliance with the development standard or requirement is unreasonable or unnecessary in the circumstances of the case, and*
- b. The proposed development will be consistent with the strategic vision and general objectives for the precinct, and*

- c. The proposed development will not hinder the orderly and co-ordinated provision of infrastructure that is planned for the land, and*
- d. The proposed development is not incompatible with, or will adversely affect, the long-term operations and development of the Airport.*

No.	Comment/Recommendation
4	A <b>merit based provision</b> allowing <b>justified variations</b> (i.e. road network functionality, specific user requirements, detailed site investigations etc) to the Precinct Plan should be included to ensure the most <b>appropriate outcome for a site can be achieved</b> where it still meets the <b>general objectives</b> of the Precinct Plan and WSA SEPP whilst permitting sufficient flexibility as to how this objective is realised in the final plans.

## 4.0 The Badgerys Creek Precinct

This section of the submission provides comments specifically related to the Badgerys Creek Precinct.

Mirvac note that the Badgerys Creek Precinct is identified as a “First Priority Area” and confirm strong support for this outcome given the immediate and short-term demand for the land use typology to be facilitated in this precinct.

It is noted, however, that the Badgerys Creek Precinct was planned as a part component of the Aerotropolis Core and South Creek Precincts, notwithstanding its significantly differing future land use and development typology.

Being included in the planning for the Aerotropolis Core and South Creek Precincts has meant that the Badgerys Creek Precinct lacks any specific focus and appears to have been dealt with as an ‘add-on’ to the other Precincts which will be subject to significantly different land use and potentially different timeframes. A number of objectives and requirements that apply to mixed use development have inadvertently been applied to the Badgerys Creek Precinct which are not appropriate for the type of development that will be delivered in the Precinct e.g. through-site connections. In regard to controls for the Precinct, there should be more consistency with the Mamre Road Precinct Planning controls, for parts of the Badgerys Creek Precinct north of Elizabeth Drive given the inherent interconnectivity and similarities between the two Precincts. There is also a more general need for development controls for large format industrial and warehousing development in Western Sydney to be subject to a consistent approach that aligns with the evolving WSEA framework.

There is clearly a significant over-provision of open space in the Badgerys Creek Precinct, over and above the Wianamatta-South Creek and Badgerys Creek corridors, particularly given that the precinct will always be characterised by employment and low amenity due to airport operations (as indicated by the ANEC contours across the majority of the Precinct). There is also 100% of the precinct in within 800m walk of the Wianamatta-South Creek and within 400m walk of zoned open space which is considered walkable distance for the access to open space.

The nearby SUEZ facility is identified within the Draft Precinct Plan as being proposed for future employment development. This appears at odds with the current and future forms of that land, noting as outlined in a recent Environmental Impact Statement for the facility, potential future uses are generally limited, being identified as a large-scale storage area, solar farm, recreational vehicle track, viewing platform, smaller co-existing uses such as bee keeping, and advertising, given site constraints including ground settlement, cap and landform integrity, and impacts from the WSIA including the obstacle limitation surface and aircraft noise exposure. The designation of this site for future warehouse development in the Precinct Plan may therefore not be readily capable of being achieved however this will be a matter for PPO to review.

No.	Comment/Recommendation
6	<p>The Badgerys Creek Precinct has been identified as an initial <b>‘first priority’</b> and it is imperative this remain the case in the final Precinct Plan.</p> <p>There is <b>extensive customer demand and significant assessment work already undertaken</b> of this precinct to ensure it is <b>‘shovel ready’</b> as soon as possible to make an important contribution to early employment outcomes and catalyst development in advance of Airport operations and can be <b>delivered in line with existing and planning infrastructure</b>. Additionally direct frontage with Elizabeth Drive and servicing solutions already substantially advanced.</p>
7	<p><b>Key development controls within the Badgerys Creek Precinct (North) and EEP West should be consistent with the Mamre Road Precinct</b> (within the Western Sydney Employment Area [WSEA]). Given the site is constrained by the ANEF noise contour, market analysis and extensive discussion with occupiers inform that the proposed land use is anticipated to be consistent with that of Mamre Road Precinct. It is thus recommended that the key development controls (e.g. road reservations, setbacks etc.) should be consistent with the Mamre Road Precinct.</p> <p><b>This would ensure consistency in employment development controls</b>, given the proposed employment uses across both the EEP West and Mamre Road Precinct due to the WSIA flight path overlay and noise affectation.</p> <p>Additionally, the EEP East site, which partly sits within the Mamre Road Precinct, is anticipated to ultimately connect through to the EEP West site and as such consistency in design will be crucial to ensure connectivity is successful.</p>
8	<p><b>Amenity of the Badgerys Creek Precinct needs to be flexible and appropriately scaled</b> to suit demand and should be subject to detailed planning. An approximately 8ha ‘Enterprise Centre’ within EEP West is too large given any centre is likely to primarily service the local employment uses. It is expected that a smaller scale of amenity to suit the local needs of workers is the most likely need and thus the proposed size should be flexible to accommodate this amenity and allow to be ‘right sized’ for need.</p>

## 5.0 The EEP West Site

Mirvac have developed a concept scheme for the EEP West site which responds to market demands and drivers and will substantially contribute to the early development of the Aerotropolis. The EEP West site will deliver employment land and infrastructure to facilitate the desired future land use for the Badgerys Creek Precinct and the broader Aerotropolis.

The below sections relate to Precinct Plan requirements that specifically impact on the EEP West site.

### 5.1 Open Space

In terms of proposed open space provision, Mirvac respectfully objects to the proposed local open space proposed in the Draft Precinct Plan for the Elizabeth Drive frontage of the EEP West site.



**Figure 3 The open space area fronting Elizabeth Drive should be removed from the EEP West site**

This proposed open space lacks justification with regard to future open space demand in the precinct. Development in the precinct will be characterised by low employment density, large format industrial development. This development typology generates little demand for open space. Additionally, the EEP West site sits within the walking catchment of the Wianamatta-South Creek corridor which will provide more than enough recreational opportunities for employees on the site and in the precinct. Per above, 100% of the site is within an 800m walk of the Wianamatta-South Creek corridor. There is also land to the immediate west of EEP West zoned for open space under the WSA SEPP.

The open space arrangement is also shown inconsistently throughout the documents, with some figures (Figure 7, Figure 8, Figure 9, Figure 10, Figure 12, Figure 14 and Figure 15 for example), showing the open space in one location or of a certain size, and other figures showing a different location and different size, and sometimes no open space shown at all.

The location of the open space area appears to have been positioned in a manner due to its association with a perceived heritage item. This is not required, with there being no evidence that there is a heritage item that is required to remain in situ (refer Section 5.2 below).

If the proposed location of the open space area is associated with riparian corridors, this is also not required as there is no evidence of a waterway (refer Section 5.3 below).

It is noted that the Draft Precinct Plan and the supporting Draft Social Infrastructure Needs Assessment prepared by GHD indicate open space benchmarks of 0.2ha per 1,000 residents (a residential rate, and therefore much higher than what would be required for industrial). The Needs Assessment identifies that this rate includes 20% of the worker population – which is noted that the worker population will be significantly higher than the residential population, and as such open spaces will be shared amongst both residents and workers. As such, modifying the benchmark rate of 0.04ha per 1,000 workers (being the 20% of the 0.2ha per 1,000 residents) indicates that the space needed for workers is substantially less. The amount of open space for workers is also dependent on the type of workers.

The EEP West site has the ability to provide 9.034ha per 1,000 workers. This is significantly higher than the benchmark requirements, and indicates the EEP West site does not need the additional open space area as shown in the Draft Precinct Plan.

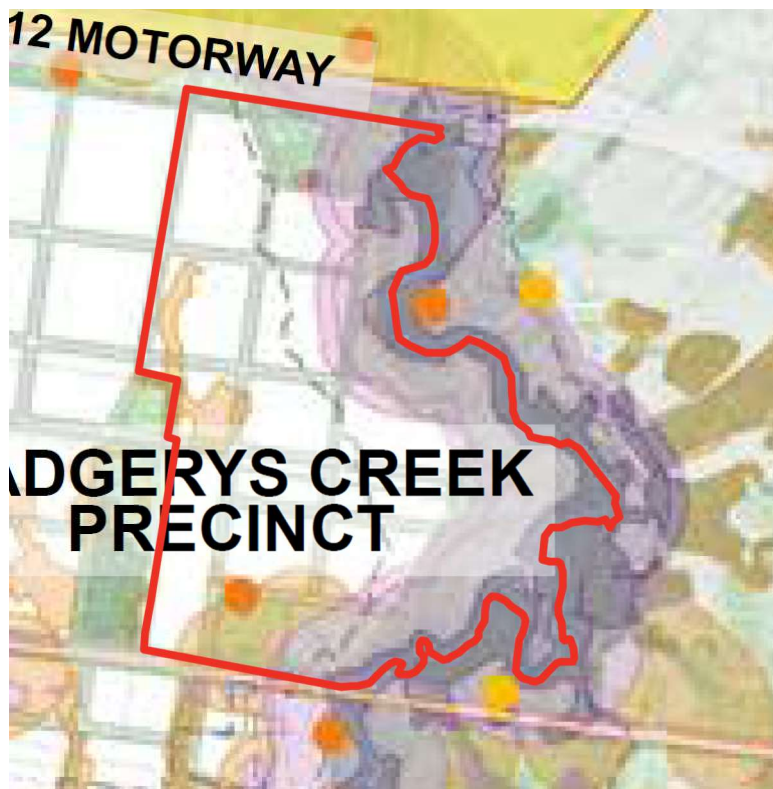
The open space as located in the Draft Precinct Plan is also considered a risk as outlined in the Draft Wildlife Management Report, as the proposed park is proposed within the 3km radius of WSIA operations. In addition, the National Airports Safeguarding Framework identifies parks as being a moderate risk to operations given their inherent wildlife attraction, and that mitigation measures need to be considered to manage this risk. With the intention of the Draft Precinct Plan to increase canopy cover across the Badgerys Creek precinct, this appears to be inconsistent with the Safeguarding Framework which aims to minimise and remove the risk of wildlife strike from airport operations. Provision of an open space area as a park within this location, which will be under the flight path of the future Stage 2 runway of the WSIA, needs to be revisited. Additionally, depending on the future land use of the nearby SUEZ facility, this may negate the need for open space to be provided within the EEP West site as currently proposed by the Draft Precinct Plan.

No.	Comment/Recommendation
5	<p>The proposed <b>provision of open space on EEP West Enterprise zoned land is not required</b> and imposes an unreasonable cost for development. In particular:</p> <ul style="list-style-type: none"> <li>the <b>entire footprint of EEP is within a 400m walk to open space</b> for worker amenity and thus does not give rise to the need for additional open space within the estate.</li> <li>EEP West is situated under the flight path of the WSIA and as such, development of open space with substantial landscaping elements may create wildlife hazards.</li> </ul> <p>EEP West already comprises of over <b>40 ha of open space which is 30% of the site EEP West's site area and thus has ample provision of open space without reducing developable area within the proposed estate</b>. Additionally, in detailed site verification studies there are no identified constraints of a riparian or heritage nature in the location of the proposed open space. The scale of this open space is entirely inconsistent with a location for workers to enjoy respite during lunch breaks since it measures approx. 6 x football fields and thus is too large. The concept for EEP is to celebrate the approx. 3.3km long frontage to South Creek as the key unifying open space element.</p>
8	<p><b>Amenity of the Badgerys Creek Precinct needs to be flexible and appropriately scaled</b> to suit demand and should be subject to detailed planning. An approximately 8ha 'Enterprise Centre' within EEP West is too large given any centre is likely to primarily service the local employment uses. It is expected that a smaller scale of amenity to suit the local needs of workers is the most likely need and thus the proposed size should be flexible to accommodate this amenity and allow to be 'right sized' for need.</p>

## 5.2 Heritage

Section 3.1 of the Draft Precinct Plan identifies a local unlisted heritage item within the proposed open space area of the EEP West site, fronting Elizabeth Drive. It is understood that the site relates to the potential archaeological remains of the first two farm dwellings of the Badgerys family.





**Figure 4** The unlisted heritage item as shown in the Draft Precinct Plan should be removed noting the on-site heritage survey work

Mirvac have undertaken numerous studies and wishes to highlight the preliminary findings of the Non-Aboriginal Salvage Excavation Archaeological Research Design and Aboriginal Text Excavation Reports prepared by Artefact across the EEP West site (**Attachment B and C**):

- No State significant evidence of the early phase of the site was identified, including the wattle and daub cottage (first house of Badgery Family, 1809 – 1810/1812) and the first brick Exeter Farm House (1809-1839);
- Relatively intact and in situ significant archaeological remains are present within two test trenches. It has been identified that additional archaeological remains are expected to be present within and around these test trenches; and
- Previous landscaping works associated with the establishment of the existing laydown area on the ridgeline has truncated the soil profile down to the natural underlying clay and has likely substantially impacted and/or removed any potential archaeological resources that had been located within the large footprint of the laydown area.

Mirvac will continue to work with Artefact and Heritage NSW to ensure appropriate mitigation measures and environmental safeguards are in place in respect of heritage. At this stage based on the investigations undertaken no remains have been uncovered that need to remain in situ.

Artefact's findings are consistent with the Draft Precinct Plan Aboriginal and Non-Cultural Heritage Report prepared by Extent Heritage Advisors which recommends the following in relation to Exeter house:

- Undertake additional research and assessment to determine physical condition and heritage significance; and
- Future development on the site must consider potential archaeological impact.

No.	Comment/Recommendation
2	<p>The studies which inform the <b>Draft Precinct Plan</b> have not been sufficiently validated by detailed studies for EEP (in particular heritage, riparian etc.) which has resulted in identification of constraints which have been validated as not being the case in detailed studies.</p> <p>For example detailed studies completed by Mirvac confirm that there is <b>no riparian and no heritage constraints</b> in those areas where the Draft Precinct Plan indicate these are constraints.</p> <p>This detail should be removed from the Draft Precinct Plan and included in the subsequent Development Control Plan, but only following sufficient site validation or detail site investigations.</p>

### 5.3 Riparian Corridor and Biodiversity

As part of the previous Planning Proposal package submitted to the Planning Partnership and Penrith City Council, a Biodiversity and Riparian Assessment prepared by EcoLogical Australia was provided which reviewed the EEP West site in relation to the presence of riparian corridors (**Attachment A**).

The field findings of that assessment demonstrate that the waterways shown within Figures 10, 12 and 16 of the Draft Precinct Plan do not meet the definition of a 'river' under the *Water Management Act 2000* and the final Precinct Plan should reflect this. It is indicated underneath Figure 16 that the map has been field-validated however this does not appear to have occurred for the EEP West site. The onsite situation for both of the reaches (1A and 1B) indicate they have no defined bed or bank, and the third reach (2A) has no defined channel.

Additionally, the existing farm dams on the site have no ecological significance and are of poor construction, and as such, will provide no amenity, notwithstanding the intention of BG1 of the Draft Precinct Plan which identifies the re-purpose or re-building of farm dams as water features in the landscape. Many figures and plans in the document propose development on this part of the site. In particular, the Draft Wildlife Management Report identifies farm dams as high risk and has the following recommended Mitigation Measure: *"The land use type presents a moderate to high risk and an assessment should be applied to determine the level and acceptability of this risk. Wildlife hazard management measures, and monitoring, are a likely requirement for the land use to proceed."* It is also noted that the flight path of the Stage 2 runway of the WSIA is directly overhead of these dams, which would be inconsistent with the Safeguarding Framework which aims to minimise and remove the risk of wildlife strike from airport operations.





Figure 5 Field validated top of bank outcomes by EcoLogical Australia

No.	Comment/Recommendation
2	<p>The studies which inform the <b>Draft Precinct Plan</b> have not been sufficiently validated by detailed studies for EEP (in particular heritage, riparian etc.) which has resulted in identification of constraints which have been validated as not being the case in detailed studies.</p> <p>For example detailed studies completed by Mirvac confirm that there is <b>no riparian and no heritage constraints</b> in those areas where the Draft Precinct Plan indicate these are constraints.</p> <p>This detail should be removed from the Draft Precinct Plan and included in the subsequent Development Control Plan, but only following sufficient site validation or detail site investigations.</p>

## 5.4 Local Centre

Mirvac support the provision of a small services centre in the EEP West in the location proposed however the size shown in the Draft Precinct Plan is far greater than can be justified given the land use and employment density in the precinct, particularly in the early phases of Aerotropolis. It is recommended that this be modified to provide an appropriately sized local services centre. Alternatively, the final Precinct Plan could require that a retail demand assessment be undertaken as part of future master plan or development approvals for the site.

## 5.5 Street Layout

The Draft Precinct Plan provides a very detailed local street pattern for the EEP West site. There needs to be flexibility in respect to this street pattern to facilitate end user needs. The Precinct Plan, as described elsewhere, should only articulate collector road level, with proposed local roads being indicative and/or desirable only. A merit based variation for alternate solutions needs to be included in the Precinct Plan to afford this level of flexibility, noting that individual landowners should have the ability to develop their site in a feasible and efficient manner based on the proposed end user of the land. Further the street pattern proposed on the EEP West is not cognisant with the required pad sizes likely to be present on the site.

No.	Comment/Recommendation
4	<p>A <b>merit based provision</b> allowing <b>justified variations</b> (i.e. road network functionality, specific user requirements, detailed site investigations etc) to the Precinct Plan should be included to ensure the most <b>appropriate outcome for a site can be achieved</b> where it still meets the <b>general objectives</b> of the Precinct Plan and WSA SEPP whilst permitting sufficient flexibility as to how this objective is realised in the final plans.</p>

## 6.0 Comments on the Objectives and Controls for Development

As part of its review, Mirvac provide the following detail comments on specific provisions within the Draft Precinct Plan that outline the objectives and requirements for future development. This is summarised in **Table 3** below with comments, clarifications and recommendations outlined.

**Table 3 Objectives and Requirements**

Section of the Draft Precinct Plan	Comment and Recommendation
<b>Section 1</b>	
1.1 Vision	<p><b>Comment</b> Mirvac are generally supportive of the proposed Vision and the underpinning frameworks.</p> <p>It is however, noted that the Vision indicates 'Business as Usual' (BAU), yet BAU is generally based on an underlying feasibility of land use and market drivers – these cannot be ignored. The Vision therefore disparages BAU. The Draft Precinct Plan need to also take into account the drivers behind BAU or 'current best practice' and work with them to formulate the vision, rather than ignore these drivers. Current best practice in western Sydney, particularly the WSEA is creating exemplar industrial estates with high quality industrial design and streetscapes. This high quality has resulted from the SSDA development assessment process which has progressively improved design and environmental performance. It is also important to recognise that the Aerotropolis necessarily has to be competitive to secure demand from occupiers. At present the affordability of employment lands in Sydney is historically at record highs compared to Melbourne and Brisbane, with both cities already operating a 24 hour airport.</p> <p><b>Recommendation</b> Ensure the Vision of the Draft Precinct Plan clearly recognises the drivers for Business as Usual including the feasibility of land use and market drivers and customer requirements</p>
1.2 Connecting to Country	<p><b>Comment</b> Mirvac support the intent of Connecting to Country and consider this an important element of the Draft Precinct Plan. Importantly, Mirvac seek to include 'country' as a key component of the Wianamatta-South Creek corridor that sits within the EEP West site and have advanced a range of initiatives in this regard.</p>
1.3 Precinct Plan purpose	<p><b>Comment</b> Mirvac consider the Draft Precinct Plan to be inconsistent with the intent of Part 7 of the WSA SEPP. The Precinct plan is too prescriptive and needs to be focused on the key principles and objectives which are considered important whilst providing sufficient flexibility for the detail to evolve in the next stage of detailed planning (DCP Stage 2, Master planning and site specific Concept Plans and development applications).. The Draft Precinct Plan is however a highly detailed and prescriptive document, for example "performance criteria" have been replaced by prescriptive requirements that would be more appropriate in the Phase 2 DCP. The requirement to be consistent with a Precinct Plan which contains this much detail and prescription will hinder flexibility and make the DA assessment process complex, time consuming and difficult.</p> <p><b>Recommendation</b> Prescriptive detail should be removed from the Draft Precinct Plan and included in the subsequent Development Control Plan, but only following sufficient site validation or detail site investigations.</p>
1.4 Applying the Precinct Plan	<p><b>Comment</b> It is noted that the Precinct Plan could be amended by a development application, by modifying aspects of the Precinct Plan that are objected to through a concurrent Planning Proposal, however this would be a time-consuming process and increase the risk of developments being delayed.</p> <p>It is noted that the EEP West as currently designed does not align with the Draft Precinct Plan, and as such, would require a Planning Proposal to be prepared, which would impact on the delivery timeframes of the project to ensure it is operational when the WSIA accepts its first flight.</p> <p><b>Recommendation</b> Ensure the Precinct Plan is a high level, strategic document with general objectives. This would remove the time consuming and expensive exercise of undertaking a concurrent Planning Proposal each time a development seeks to amend the Precinct Plan as currently drafted.</p>
1.5 Phase 2 DCP	<p><b>Comment</b> Many of the requirements in the Draft Precinct Plan would be more appropriate in the Phase 2 DCP where there would be greater flexibility provided by s3.42 of the EP&amp;A Act which provides that a DCPs principal purposes is to provide guidance and is not a statutory document.</p>
1.9 Mamre Road	<p><b>Clarification</b> Mirvac are also developing a site within the adjacent Mamre Road Precinct. It is noted that Figure 6 of the Draft Precinct Plan identifies what appear to be active transport links on both the Mamre Road site and the EEP West and East sites. Clarification is requested that these are indicative only, as inclusion of these links would severely restrict efficient development on this land.</p>

Section of the Draft Precinct Plan	Comment and Recommendation
<b>Section 2 Precinct Plan Framework</b>	
2.1 Precinct Planning Drivers	<p>The Draft Precinct Plan outlines eight key planning drivers:</p> <ul style="list-style-type: none"> <li>• Connecting to Country</li> <li>• Landscape-led</li> <li>• Great Places</li> <li>• Transport investment and jobs</li> <li>• Circular economy</li> <li>• A resilient city</li> <li>• Urban comfort and green streets</li> <li>• Market factors</li> </ul>
Connecting to Country	<p>As outlined previously, Mirvac support this driver. In particular, Mirvac have several initiatives proposed for the EEP site in terms of Indigenous input in design and ongoing operation.</p>
Landscape-led	<p><b>Comment</b> Mircac support the intended approach. However, the Draft Precinct Plan significantly expands the open space allocation over and above the Aerotropolis Plan. There is a need to ensure that the landscape requirements work with the desired land uses, rather than imposing on the land uses, undermining their functionality and feasibility.</p>
	<p><b>Clarification</b> It is noted that this Key Driver 2 for a Landscape-led approach identifies the need to minimise major earthworks, which are an imperative design requirement for many large scale employment developments.</p>
Great Places	<p><b>Comment</b> Mircac support the enterprise centre designation location (consistent with the EEP West design). This will assist the EEP West in becoming an attractive, best practice employment place, consistent with the delivery of the Calibre estate by Mirvac.</p>
	<p><b>Clarification</b> The enterprise centre is shown in Figure 30 but not in Figure 29 (which highlights a local centre to the west of EEP West) of the Draft Precinct Plan. Mirvac also wishes to question the size of the centre given the likely employment density and land use in the precinct.</p>
Transport, Investment and jobs	<p><b>Comment</b> Mircac support the Elizabeth Drive upgrade as proposed.</p> <p>It is noted that the EEP West road network is consistent with the proposed Eastern Ring Road intersection with Elizabeth Drive.</p>
Circular economy	<p><b>Comment</b> Mircac support the concept of a circular economy.</p>
	<p><b>Recommendation</b> The circular economy should explicitly include re-use of fill from infrastructure projects outside the precinct, with a multitude of State Significant Infrastructure projects having surplus clean fill suitable for re-use within the Aerotropolis.</p>
Resilient City	<p><b>Comment</b> Mircac support this key driver of a resilient city, however this needs to have practical outcomes regarding tree canopy and permeability requirements.</p>
Urban Comfort and green streets	<p><b>Comment</b> Mircac support this concept, however the Draft Precinct Plan needs to look to best practice like the established and ongoing WSEA.</p>



Section of the Draft Precinct Plan		Comment and Recommendation
	Market Factors	<p><b>Comment</b></p> <p>The Draft Precinct Plan, as exhibited, appears to ignore market realities and customers needs by dismissing current best practice solutions, even where best practice and instead proposes untested and unfeasible requirements. Attractive workplaces are already being developed under current best practice and if there is no development due to restrictive requirements, then there will ultimately be a shortage in employment ready developments to accommodate the anticipated growth from the operation of the WSIA.</p>
2.4	Aerotropolis Precinct - Badgerys Creek vision	<p><b>Comment</b></p> <p>It is noted that the Badgerys Creek Precinct has been included with the Aerotropolis Core and Wianamatta-South Creek Precincts. This indicates a lack of focus or understanding of the specific land use needs of the Badgerys Creek Precinct.</p> <p>The vision should reflect the evolution of land-uses, in particular being aware of the short-term land uses that will be established, being large format warehousing which provides an important complementary function to other uses such as advanced manufacturing. A mature Aerotropolis would be required to support any advanced manufacturing in this location, which should be recognised as a longer-term vision for the Precinct.</p> <p><b>Comment</b></p> <p>Objective O2 specifies:  <i>Become the premier location of choice for advanced manufacturing and high technology industries in Australia with accessible infrastructure and public transport and high design quality for fit-for-purpose buildings and open spaces.</i></p> <p>It is considered that the intent to deliver these fit-for-purpose buildings, particularly within the Badgerys Creek Precinct, will be inhibited by the prescriptive 'one size fits' all design controls as currently proposed.</p> <p><b>Comment</b></p> <p>Objective O10 specifies:  <i>Facilitate quality and innovative development to provide for a variety of employment uses.</i></p> <p>This doesn't appear to provide any solid objective or goal, and appears more aspirational than necessary.</p>
<b>Section 3 Precinct Plan</b>		
3.1	Recognise Country	Mirvac strongly support the recognition of country as outlined in the Draft Precinct Plan. In particular, this is a strong theme throughout Mirvac developments and is clearly articulated within the vision for the EEP West site.
3.1.1	Aboriginal heritage	<p><b>Clarification</b></p> <p>Figures 8 and 9 of the Draft Precinct Plan identify parts of the EEP West site as containing low, moderate and high Aboriginal cultural sensitivities.</p> <p><b>Comment</b></p> <p>RC4 specifies:  <i>Avoid development in areas of High Aboriginal Heritage Sensitivity and minimise development in areas of moderate sensitivity.</i></p> <p>Areas of moderate sensitivity should be subject sufficient site validation or detail site investigations.</p>
3.1.2	Non-Aboriginal Heritage	<p><b>Comment</b></p> <p>There is no clear definition of a 'heritage item', and no actual list of what the heritage items identified on Figure 8 are, which include 'unlisted' items, such as the item on the EEP West site.</p> <p>Additionally, RC11 refers to Badgerys Exeter Farm and refers to this having potential to be State significant, subject to further investigations. Substantial heritage work has been undertaken on the EEP West site which has previously been provided to the Planning Partnership that outlines the actual validated heritage values of the site.</p>
3.2	Blue Green Infrastructure Network	<p><b>Comment</b></p> <p>There are several principles identified within this section of the Draft Precinct Plan which will have significant impacts on the development of EEP West and should be re-considered to accommodate large format warehousing type development.</p>

Section of the Draft Precinct Plan	Comment and Recommendation	
	Principle 4	This principle relates to tree canopy coverage. The Precinct Plan needs to be clear regarding contributing to targets and <u>not</u> meeting targets, as different land uses have different challenges in this regard. In particular, the EEP West site, sitting under the approach to the WSIA runway, will be limited in canopy that can be provided due to the requirements of the Airport Safeguarding Framework.
	Principle 11	The heavy impermeable clayey nature of the subsoils throughout the Badgerys Creek Precinct significantly limit infiltration. In addition, increased permeability is an issue for large format development given the large roof sizes, and hardstand required to achieve the GFA requirements of the market and will limit the viability of development. Sufficient flexibility is required to enable industry needs to be realised and specialised built form solutions to be delivered for occupiers.
	Principle 12	<p>The requirement for a minimum 30% of site area being deep soil is not practical. It is noted that the Draft Mamre Road DCP does not specify a minimum for deep soil, rather focuses on ensuring minimum dimensions are provided.</p> <p><b>Recommendation</b> It is understood the requirement for deep soil may have been driven from achieving the waterway health MARV volumetric reduction target. The requirement for deep soil should be applied as an estate-wide target of 10-15% in-line with landscaping targets and include designated open space areas.</p>
	Principle 13	The re-use of farm dams is not practical for large format development and is inconsistent with retention of ephemeral streams and their natural functions. Furthermore, the re-use of farm dams can introduce issues in terms of efficient development layouts.
	Principle 14	<p><b>Clarification</b> This Principle 14 seems to be focused on high and medium density residential or mixed use precincts. The EEP West will be a low density employment precinct. Furthermore, the proposed park within the EEP West site, fronting Elizabeth Drive, does not satisfy this criteria as the site is not a medium density area.</p> <p>It is questioned as to the need for additional open space when all workers will be within a short walk to designated open space outlined in the Aerotropolis Plan.</p>
	Principle 16	This Principle identifies the need for an overall tree canopy cover of 40%. As outlined above under Principle 4 (with these two ideally being combined into one consolidated Principle), different land uses such as employment land have challenges in meeting these high targets. Notwithstanding, large scale landscaping to achieve canopy cover appears at odds with the Airport Safeguarding Framework.
3.2.1 Wianamatta-South Creek Corridor	<p><b>Clarification</b> Figure 12 identifies an indicative WSUD basin within EEP West Stage 2. Clarification is requested as to the intent of this basin noting that the current working EEP West design incorporates its own basins.</p>	
3.2.4 Riparian Corridors and Farm Dams	<p><b>Comment</b> The objectives are vague as to the designation of riparian corridors.</p> <ul style="list-style-type: none"> <li>• BG1 requires that farm dams be re-purposed. As above, this is impractical for employment areas with large footprint requirements and level land being needed. It is noted the existing farm dams on EEP West will be removed.</li> <li>• BG2 requires the retention of Strahler Order 2 streams. There is no waterway on EEP West Stage 1, and based on physical investigations there is no vegetation riparian zone present.</li> </ul> <p><b>Clarification</b> It is queried whether the requirement under BG7, to retain an existing dam and then licence that dam, is an unreasonable burden on landowners given the dam may have been in existence for a significant timeframe prior to ownership.</p>	

Section of the Draft Precinct Plan	Comment and Recommendation
<p>3.2.5 Integrated water management and water sensitive urban design</p>	<p><b>Comment</b> The retention of stormwater for re-use on site under BG02 is impractical due to low water demand of the land use typology. The requirement for trunk drainage under BG4 to be through natural creek lines or constructed natural drainage channels is an inefficient and expensive use of otherwise valuable employment land. It is also not practical given the development footprint and level pad requirements for large format development.</p> <p><b>Comment</b> There is an opportunity presented by the Aerotropolis as a whole in terms of a regional water solution for the collection of rain water and use throughout the broader Sydney water network. In terms of rainfall on roofs of warehousing, this water could be collected and through a series of network upgrades, directed into the Sydney drinking water catchment for use. A consideration for this form of regional water re-use should be considered as part of the Precinct Plan and also future WSA SEPP amendments.</p> <p><b>Recommendation</b> BG6 should provide that piped stormwater management solutions be acceptable rather than sterilising land to achieve the same outcome.</p>
<p>3.2.6 Undisturbed Soil Network</p>	<p><b>Objection</b> Mirvac object to the designation of part of the site on Elizabeth Drive as being designated 'undisturbed soil in Figure 14. There is no justification for this land to be identified in such a manner, given it has historically been disturbed from farming activities over the years.</p> <p><b>Comment</b> The requirement under BG4 relating to tree canopy cover seems unrelated to soil networks and is also highly prescriptive for a Precinct Plan. BG5 also appears to be out of context in this location and should be removed.</p> <p><b>Clarification</b> BG3 acknowledges that there has not been any accurate mapping of soil types. It is also unclear whether the undisturbed soil network can be disturbed if the soil horizon is restored at the conclusion of works. This BG3 also seems to consider that streets form part of the undisturbed soil network which would be impossible to achieve.</p> <p><b>Recommendation</b></p> <ul style="list-style-type: none"> <li>• BG1 needs to be more specific that this applies to Horizon A and B only.</li> <li>• Remove BG4 relating to canopy cover from the Precinct Plan.</li> <li>• Remove BG5 from the Precinct Plan as this is more appropriately placed within the DCP.</li> </ul>
<p>3.2.7 Public Domain and Canopy Cover</p>	<p><b>Objection</b> Mirvac object to BG2 which designates a Local Park on the EEP West site in Figure 15, on the basis of the surrounding land use and easy proximity for workers to access the Wianamatta-South Creek Corridor to the east and the zoned park to the west of the site. There are also multiple inconsistencies between several figures within the Draft Precinct Plan regarding the extent of the Local Park.</p> <p>Mirvac object to the "Riparian / Linear" parkland designation on EEP West site to the east of the Local Park, noting this appears to be based on the PMF rather than the 100 year flood level.</p> <p><b>Clarification</b> Clarification is also requested as to whether open space will be compulsorily acquired.</p>
<p>3.2.9 Scenic and Cultural Connection</p>	<p><b>Comment</b></p> <ul style="list-style-type: none"> <li>• As outlined previously, the retention of ephemeral creeks is not practical for large format industrial sites as indicated under BG5.</li> <li>• Figure 18 also identifies part of the EEP West developable area as Wianamatta, Badgerys Creek and Thomsons Creek riparian corridor with associated vegetation "framing long views". The EEP West master plan design provides view corridors to South Creek and beyond</li> </ul>

Section of the Draft Precinct Plan	Comment and Recommendation
3.3.1 Transport Strategy	<p><b>Clarification</b> Figure 19 identifies:</p> <ul style="list-style-type: none"> <li>Elizabeth Drive as a Primary Arterial Road being a 60m road corridor <ul style="list-style-type: none"> <li>It needs to be clarified that this road corridor includes all infrastructure with no further land take required</li> </ul> </li> <li>A local bus routes travelling through the EEP West site <ul style="list-style-type: none"> <li>This is supported however it is noted that the bus route runs along the existing SUEZ landfill site which will be operational for many years, potentially impacting the viability of that bus route</li> </ul> </li> <li>Key signalized intersection at the accesses to EEP West <ul style="list-style-type: none"> <li>This is supported.</li> </ul> </li> </ul> <p><b>Clarification</b> AM1 identifies that a Travel Demand Management Strategy should be prepared, however it is not clear what this strategy should contain.</p>
3.3.2 Active Transport	<p><b>Comment</b> Figure 20 identifies a Principal regional cycle path network (off-road) running along the creek edge but also east-west through the EEP West site.</p> <p><b>Recommendation</b> It is recommended that the east-west route of the cycle path be classified as a 'cycle path within the streetscape', rather than 'off-road'.</p>
3.3.4 Freight	<p><b>Comment</b> The EEP West site is consistent, and aligns with, the Greater Sydney Freight Network. Additionally as the site is located under the flight path and as such achieves the intent of AM4 enabling 24 hour operations.</p>
3.3.5 Road network	<p><b>Comment</b> Figure 22 identifies Access Road 1 which provides the main access through through EEP West Stage 1 as a 'Local Collector Road' and the balance of the roads in EEP West as 'Industrial Street' - both road typologies have a typical cross section of 25m. It is noted that both collector and industrial roads have the same typical cross sections.</p> <p><b>Recommendation</b> It is strongly recommended that the road typologies within the Badgerys Creek Precinct be consistent with those in the Draft Mamre Road DCP to ensure consistency in development across the two employment precincts.</p>
3.3.8 Street hierarchy and typology	<p><b>Comment</b> Figure 22 is far too detailed for a Precinct Plan. The Precinct Plan should be limited to a collector road level to provide for an element of flexibility based on land use and more detailed technical study of elements like slope, geotechnical elements etc. The prescribed street network may contradict the achievement of other requirements in the Precinct Plan such as stormwater management and the quantum of earthworks etc. The rigid prescriptive local street network may be appropriate for full Aerotropolis development in 100 years or so, however needs to accommodate interim road layouts. AM3 in particular should be removed from the Precinct Plan.</p> <p><b>Clarification</b> It is questioned as to why two cycleways are needed within an industrial street as shown on the proposed street cross sections.</p> <p><b>Recommendation</b> Remove all road typologies below a collector road from the Street Hierarchy and Network map to enable flexibility, and provide for local road networks within the Phase 2 DCP.</p>
3.4 Land Use and Built Form Framework	<p><b>Comment</b> Principle Guidelines are far too many and, in many cases, duplicate each other. There is no principle that acknowledges the functionality of certain land uses and the need for a flexible approach to built form and design to facilitate these uses.</p>



Section of the Draft Precinct Plan	Comment and Recommendation
3.4.1 Hierarchy of Centres	<p><b>Clarification</b> LU1 does not identify a centre on the EEP West site, however Figure 30 identifies an “enterprise centre” on the site. The enterprise centre is generally located consistent with a proposed centre in the EEP West however as shown is probably too large given the low density employment in the precinct and its proximity to the identified ‘local centre’ to the south-west of the SUEZ facility. Additionally, the role and function of “enterprise centre” is not included in Table 2.</p>
3.4.2 Land use and built form	<p><b>Comment</b> These are generally acceptable objectives, however it is noted the majority of the EEP West is identified as enterprise and light industry.</p> <p><b>Clarification</b> An enterprise centre is shown on Figure 30, consistent with LU4, however clarification is requested as to the flexibility of this.</p> <p><b>Recommendation</b> LU10 relating to cross ventilation is not a suitable objective for large format warehousing and should be removed or amended to be clear that it does not apply to this type of development.</p>
3.4.3 Height	<p><b>Comment</b> The EEP West site is provided with a 24m height limit. It is questioned whether this will provide flexibility for potential high-bay developments. Additionally, increasing this height will not impact on Obstacle Limitation Surfaces associated with the WSIA.</p> <p><b>Recommendations</b> A merit clause to allow for higher development should be incorporated consistent with the Draft Mamre Road DCP which provides that a taller built form is to demonstrate mitigation of solar and visual impacts to the surrounding uses and public amenity, and be accompanied by a visual impact assessment by a suitably qualified consultant.</p>
3.4.5 Yield and Density Framework	<p><b>Objection</b> LU3 appears to require justification for not meeting the employment density targets in Table 4. Mirvac objects to this, particularly given potential high levels of automation likely in advanced logistics and manufacturing and it represents an overly prescriptive requirement.</p>
3.4.6 Urban Typologies	<p><b>Comment</b> Table 5 outlines the urban typology for large format industrial, with a 30% permeability requirement as a base scenario. This is highly impractical for the typology, and will result in unviable development and a competitive disadvantage to other states. In addition, the example Figure 33 is highly improbable and impractical for large format industrial development.</p>
3.4.8 Subdivision and block structure	<p><b>Comment</b> LU1 requires that a subdivision block size for the Enterprise Zone be a maximum of 350m by 350m, allowing a total block area of 12.25ha. There needs to be flexibility here to accommodate larger warehouses, for example similar to the Hoxton Park scale, as some larger format industrial facilities would not fit on a 12.25ha site.</p>
3.4.9 Open Space typology	<p><b>Objection</b> Mircac object to LU1 which specifies the open space typologies and open spaces identified in Figure 15 be adopted. The proposed park spaces on the EEP West site are not appropriate given the type of development to be accommodated and as previously indicated should be removed from the Precinct Plan. It is noted that the EEP West land within the South Creek corridor will be considered a Regional Parkland, and that the full area of EEP West is within 400m of zoned open space areas.</p>
3.4.11 Sites Greater than 5,000m <sup>2</sup>	<p><b>Objection</b> These provisions should not apply in the Enterprise Zone where large format industrial development is proposed. Through site connections are not practical and represent operational and security issues for large format logistic facilities.</p>
3.4.12 Amalgamation	<p><b>Comment</b> The Draft Precinct Plan has not adequately taken into consideration existing land ownership and sought to minimise the need for land amalgamation up front. Figure 40 identifies the Local Park in EEP West and states it requires ‘coordinated development’. It also identifies an east-west corridor through the EEP West which is not shown in Figure 15.</p>

Section of the Draft Precinct Plan	Comment and Recommendation
	<b>Clarification</b> It is unclear how the amalgamation of land will be encouraged.
3.4.13 Roofscapes	<b>Comment</b> LU1 represents a very vague requirement and the practicality and expense of rainwater detention is questioned.
3.5.1 Social community and cultural infrastructure	<b>Clarification</b> Figure 48 is not clear as to what facilities are designated for the EEP West site adjacent to the South Creek corridor. This should be clarified so it can be considered in future development plans. It is noted, however, that Mirvac have a strong relationship with a number of cultural bodies who would be willing to assist in developing a facility within the EEP West site.
3.6 Sustainability and Resilience framework	<b>Comment</b> <ul style="list-style-type: none"> <li>SR06 and SR07 provide for the opportunity to build on the circular economy principles, including the re-use of recovered materials. This represents the ability to re-use fill materials from State Significant Infrastructure projects from outside the Aerotropolis to ensure the circular economy principles are achieved.</li> <li>SR8 requires the procurement of building materials from within a 30km radius – given the extent of development occurring throughout Greater Sydney, this will result in the inability to re-use recovered materials from some substantial infrastructure projects outside of that 30km radius.</li> </ul> <b>Recommendation</b> <ul style="list-style-type: none"> <li>Amend SR06 and/or SR07 to include the re-use of VENM material from major infrastructure projects as being a supported activity within the Aerotropolis.</li> <li>Remove SR8 which seeks to prioritise the use of materials from within a 30km radius.</li> </ul>
<b>Section 5 Infrastructure Delivery and Staging</b>	
5.2 Sequencing Priorities within Initial Precincts	<b>Comment</b> Mirvac support the EEP West Stages 1 and 2 being within the first priority area in sequencing

## 6.1 Required Figure Amendments

There are several figures within the Draft Precinct Plan which require amending to reflect on-site conditions of the EEP West as indicated above. It is noted these were discussed in the meeting held with the Planning Partnership on 3 March 2021.

Importantly, across all figures within the Draft Precinct Plan, the open space area shown adjacent to Elizabeth Drive is to be removed.

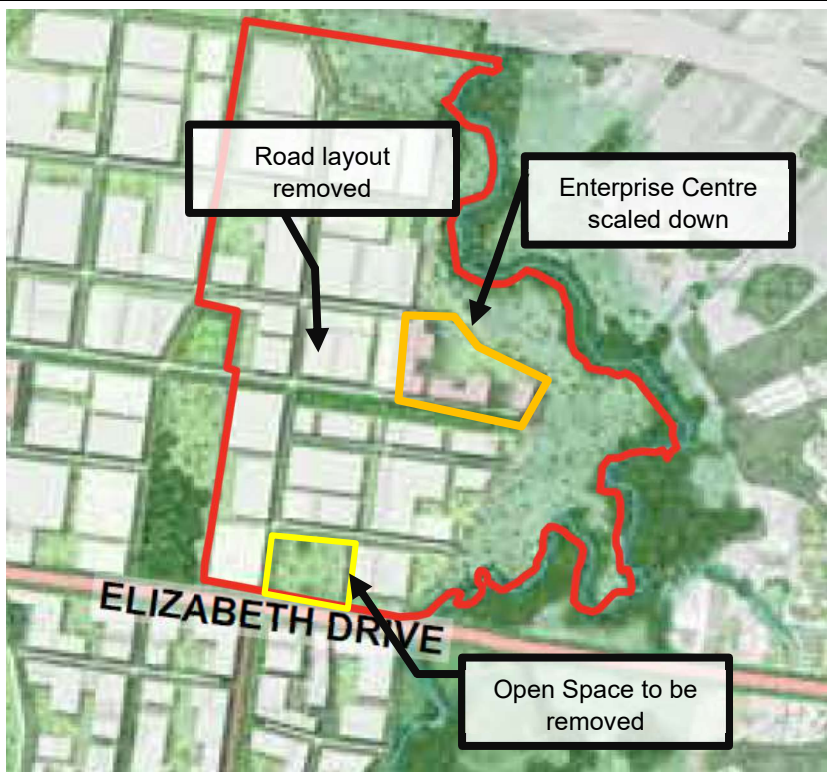
Figure Reference	Figure Extract	Proposed Amendments
Executive Summary	 <p>Road layout removed</p> <p>Enterprise Centre scaled down</p> <p>Open Space to be removed</p> <p>ELIZABETH DRIVE</p>	<p>This figure is required to be amended to remove the open space (shown in yellow) fronting Elizabeth Drive within the EEP West site (shown in red), and to reduce the scale of the enterprise centre (orange) to a more feasible and appropriate size and note that the size is subject to market demand or not prescribed</p> <p>The street grid and development blocks should be clarified as indicative only and the road layout removed.</p>

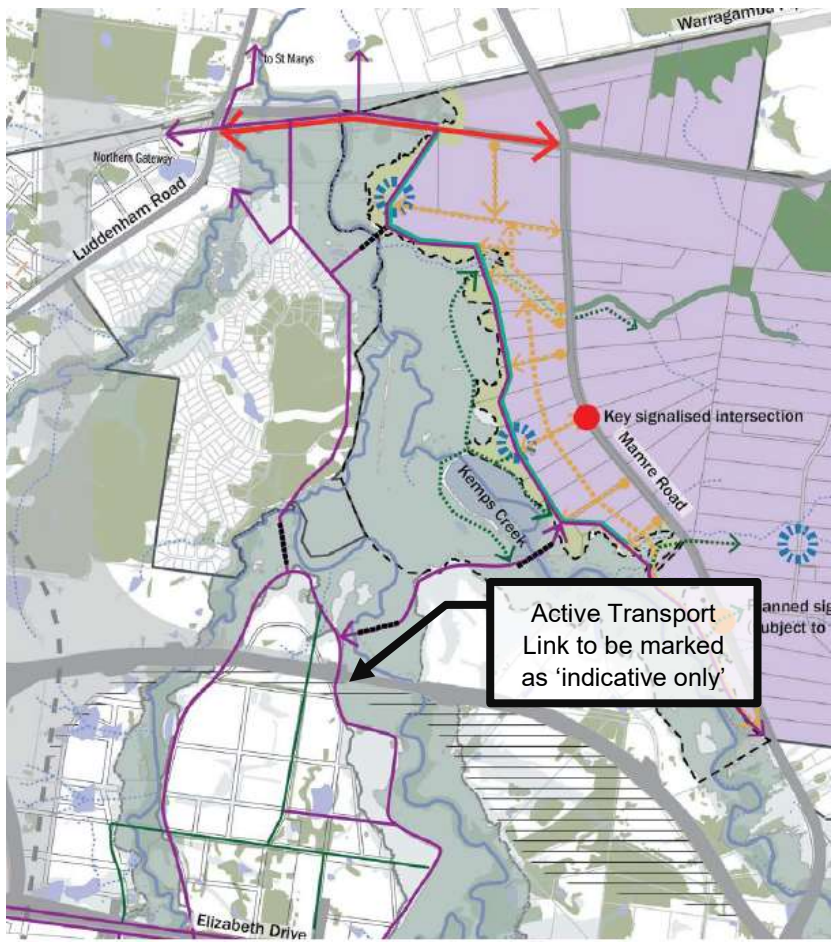
Figure Reference	Figure Extract	Proposed Amendments
Figure 6	 <p>The map extract shows a section of the Western Sydney Aerotropolis. A purple-shaded area represents the eastern boundary of EEP West. A red line with arrows indicates a proposed active transport link along this boundary. A callout box with an arrow pointing to this line contains the text: "Active Transport Link to be marked as 'indicative only'". Other features on the map include Luddenham Road, Northern Gateway, To St Marys, Warragambie, Key signalled intersection, Mamre Road, Kemps Creek, and Elizabeth Drive.</p>	<p>The 'active transport link' shown along the eastern boundary of EEP West (in purple) should be marked as 'indicative only'.</p>



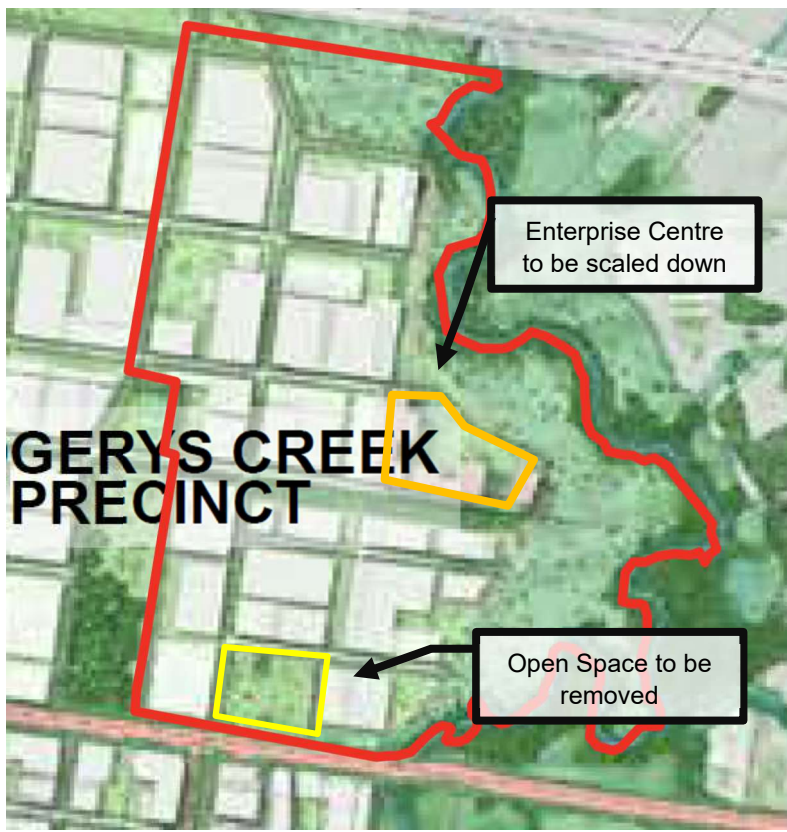
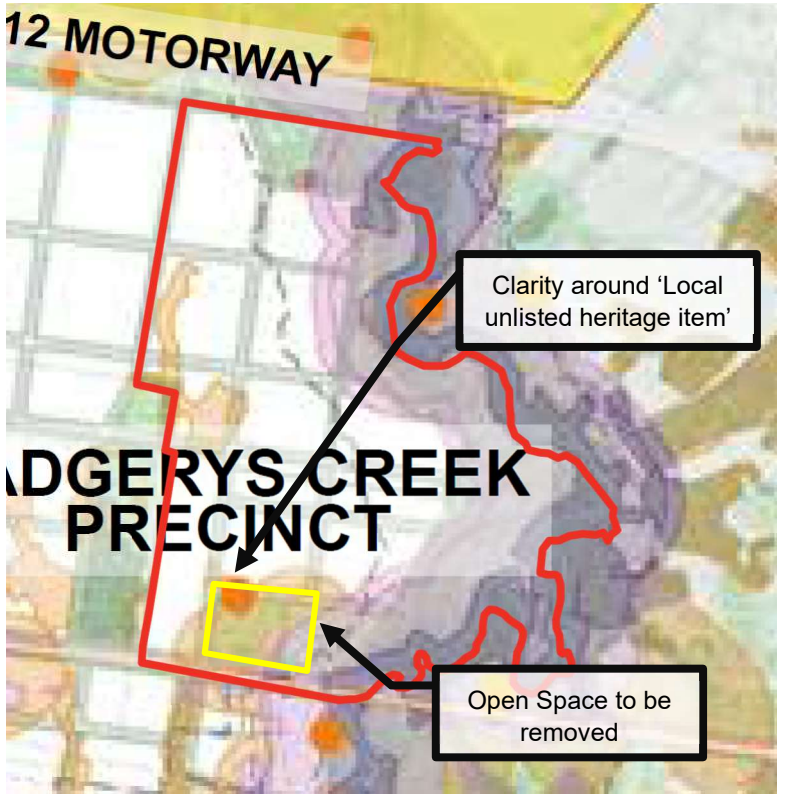
Figure Reference	Figure Extract	Proposed Amendments
Figure 7	 <p><b>GERYS CREEK PRECINCT</b></p> <p>Enterprise Centre to be scaled down</p> <p>Open Space to be removed</p>	<p>This figure is required to be amended to remove the open space (shown in yellow) fronting Elizabeth Drive within the EEP West site (shown in red), and to reduce the scale of the enterprise centre (orange) to a more feasible and appropriate size.</p> <p>The street grid and development blocks should be clarified as indicative only and the road layout removed.</p>
Figure 8	 <p><b>12 MOTORWAY</b></p> <p><b>BADGERYS CREEK PRECINCT</b></p> <p>Clarity around 'Local unlisted heritage item'</p> <p>Open Space to be removed</p>	<p>This figure is to be amended to remove reference to there being a 'local unlisted heritage item' present on the site.</p> <p>There is no clear definition of a 'heritage item', and no actual list of what the heritage items identified on Figure 8 are.</p> <p>Substantial heritage work has been undertaken on the EEP West site which has previously been provided to the Planning Partnership that outlines the actual ground-truthed heritage values of the site.</p> <p>The open space is to be removed from this figure.</p>

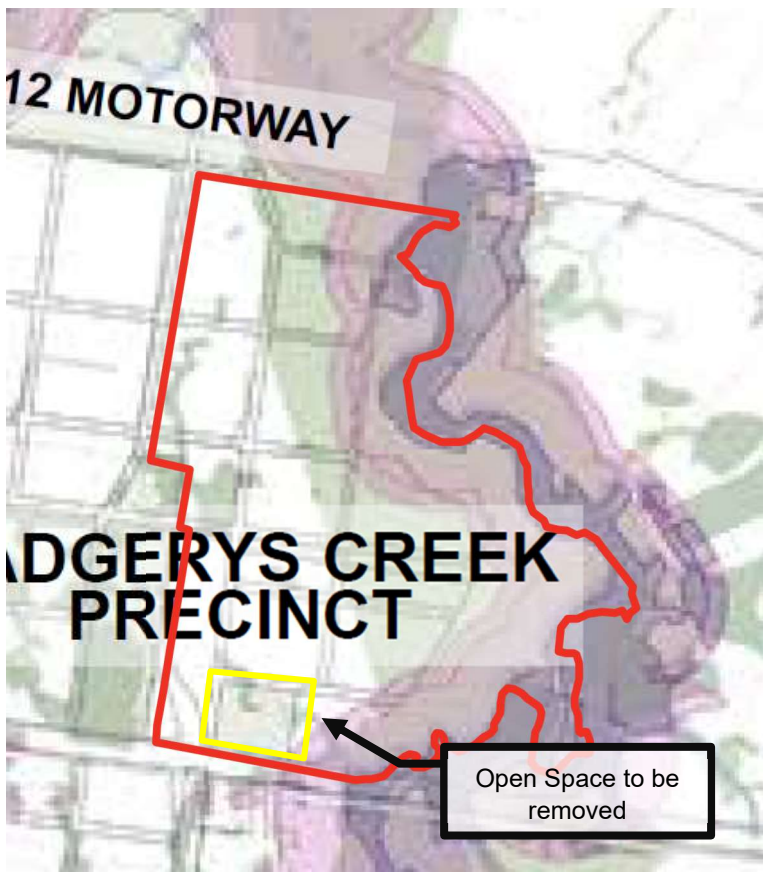
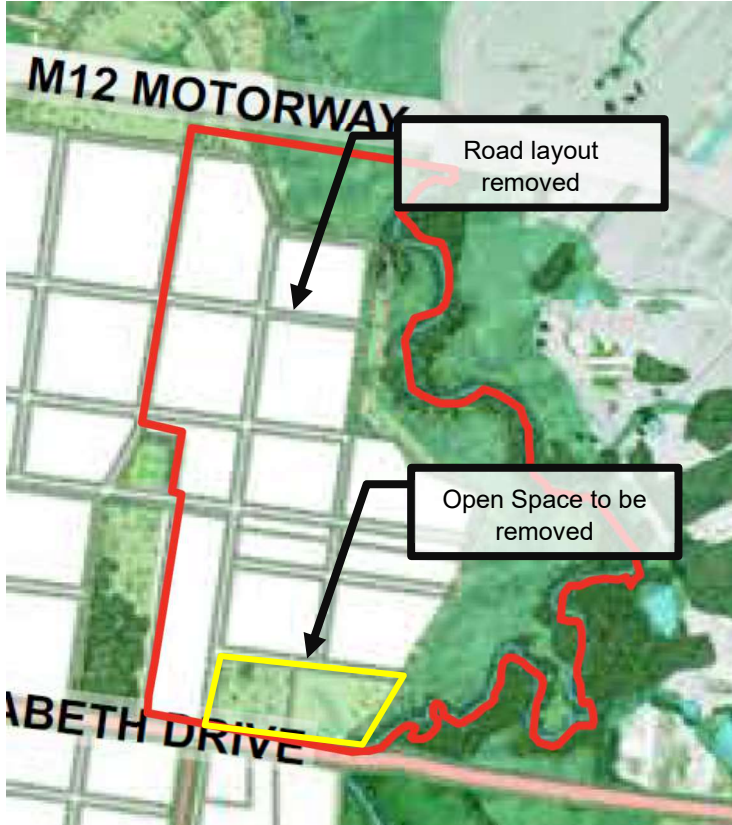
Figure Reference	Figure Extract	Proposed Amendments
Figure 9	 <p>A map of the Badgerys Creek Precinct. The M12 Motorway is shown at the top. A red outline defines the precinct boundary. A yellow rectangle highlights a specific area within the precinct. An arrow points from a text box labeled 'Open Space to be removed' to this yellow rectangle.</p>	<p>The open space is to be removed from this figure.</p>
Figure 10	 <p>A map of the Badgerys Creek Precinct, similar to Figure 9 but with more detail. The M12 Motorway is at the top and Elizabeth Drive is at the bottom. A red outline defines the precinct boundary. A yellow rectangle highlights an area. Two arrows point from text boxes to specific areas: 'Road layout removed' points to a road intersection, and 'Open Space to be removed' points to the yellow rectangle.</p>	<p>There are inconsistencies with the extent of the (to be removed) open space area fronting Elizabeth Drive. This open space area is to be removed.</p> <p>The street grid and development blocks should be clarified as indicative only and the road layout removed.</p>



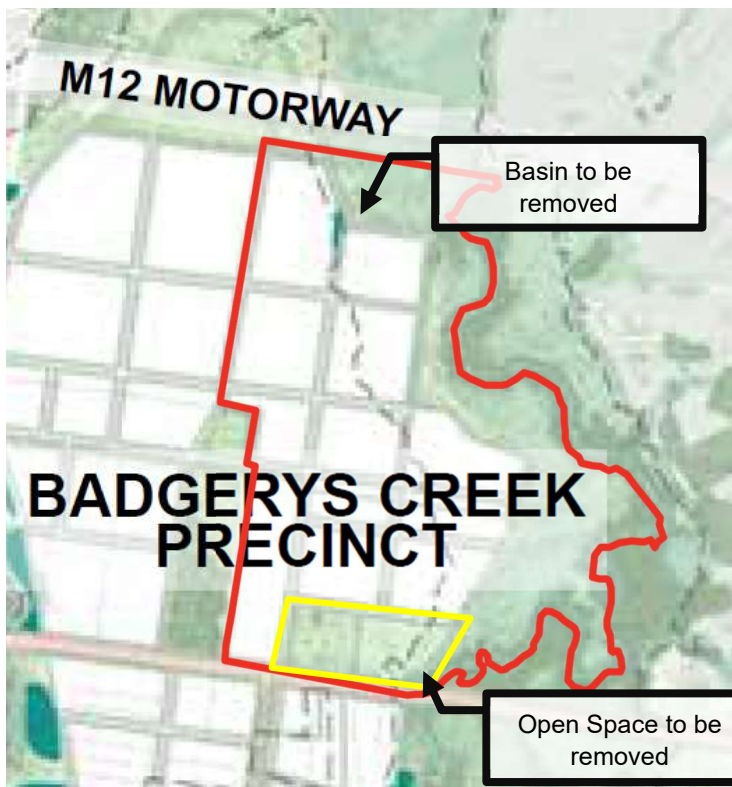

Figure Reference	Figure Extract	Proposed Amendments
Figure 12	 <p>The map shows the Badgerys Creek Precinct outlined in red. The M12 Motorway is visible at the top. A yellow rectangle in the lower part of the precinct is labeled 'Open Space to be removed'. A pink rectangle near the top right is labeled 'Basin to be removed'.</p>	<p>There are inconsistencies with the extent of the (to be removed) open space area fronting Elizabeth Drive. This open space area is to be removed.</p> <p>This figure shows an indicative WSUD basin which should be removed given current plans for EEP West include basins, designed for efficient water management.</p> <p>The street grid and development blocks should be clarified as indicative only and the road layout removed.</p>
Figure 14	 <p>The map shows the Badgerys Creek Precinct outlined in red. The M12 Motorway is visible at the top. A yellow rectangle in the lower part of the precinct is labeled 'Open Space to be removed'. A grey rectangle in the upper part of the precinct is labeled 'Undisturbed soil layer to be removed as open space being removed'.</p>	<p>The undisturbed soil network layer on the site should be removed as there is a lack of justification for this, and with the open space as shown being removed will be developable land.</p> <p>The street grid and development blocks should be clarified as indicative only and the road layout removed.</p>

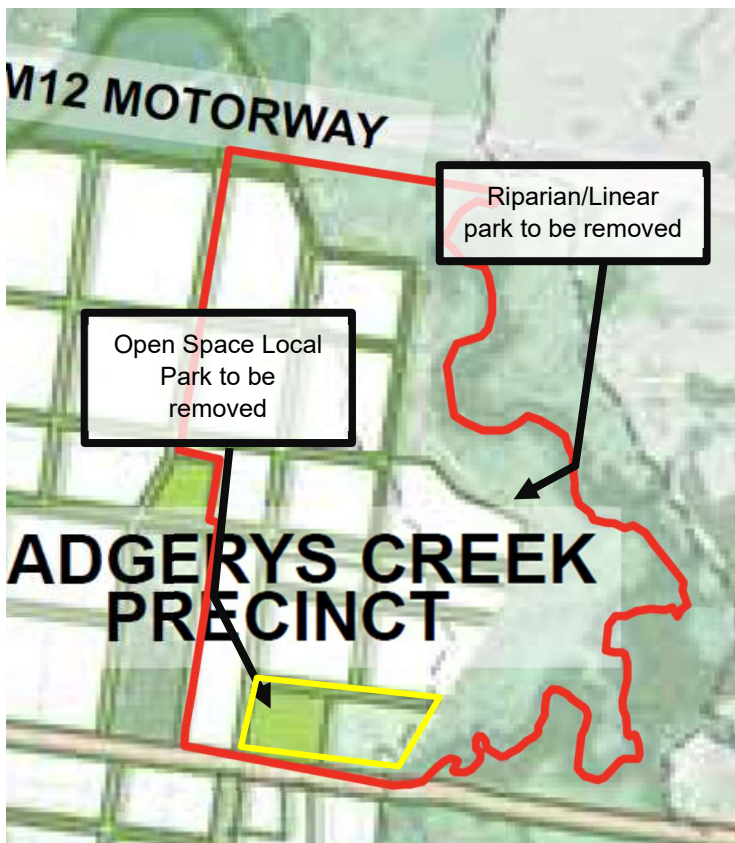
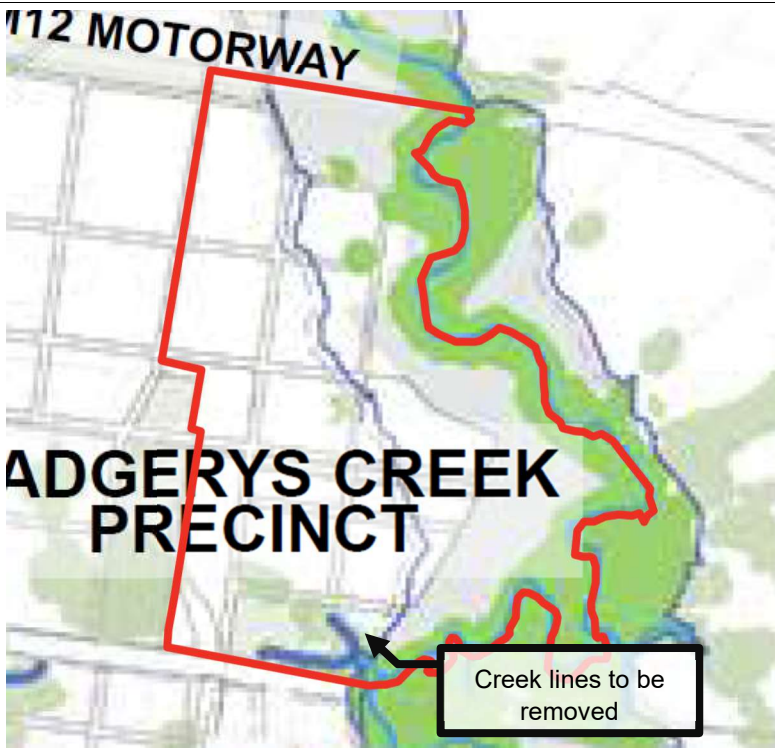
Figure Reference	Figure Extract	Proposed Amendments
Figure 15	 <p>The map shows the Adgerys Creek Precinct bounded by a red line. The M12 Motorway is visible at the top. Two callout boxes with arrows point to specific areas: 'Open Space Local Park to be removed' points to a green rectangular area in the lower-left, and 'Riparian/Linear park to be removed' points to a green area along the eastern boundary.</p>	<p>Figure 15 does not contain the east-west corridor as shown in Figure 40.</p> <p>With the full site area of EEP West being within 400m of the South Creek corridor, there is no need to provide additional open space on-site, and as such the proposed park spaces should be removed, in particular the local park adjacent to Elizabeth Drive.</p> <p>The 'Riparian/Linear' park in the east should also be removed as this appears to be based on the PMF rather than the 100 year flood level.</p> <p>The street grid and development blocks should be clarified as indicative only and the road layout removed.</p>
Figure 16	 <p>The map shows the Adgerys Creek Precinct bounded by a red line. The M12 Motorway is visible at the top. A callout box with an arrow points to a blue line representing a creek, with the text 'Creek lines to be removed'.</p>	<p>The waterway shown in Figure 16 does not meet the definition of a waterway. It is indicated underneath Figure 16 that the map has been field-validated however this does not appear to have occurred for the EEP West site. This should be amended as necessary.</p>



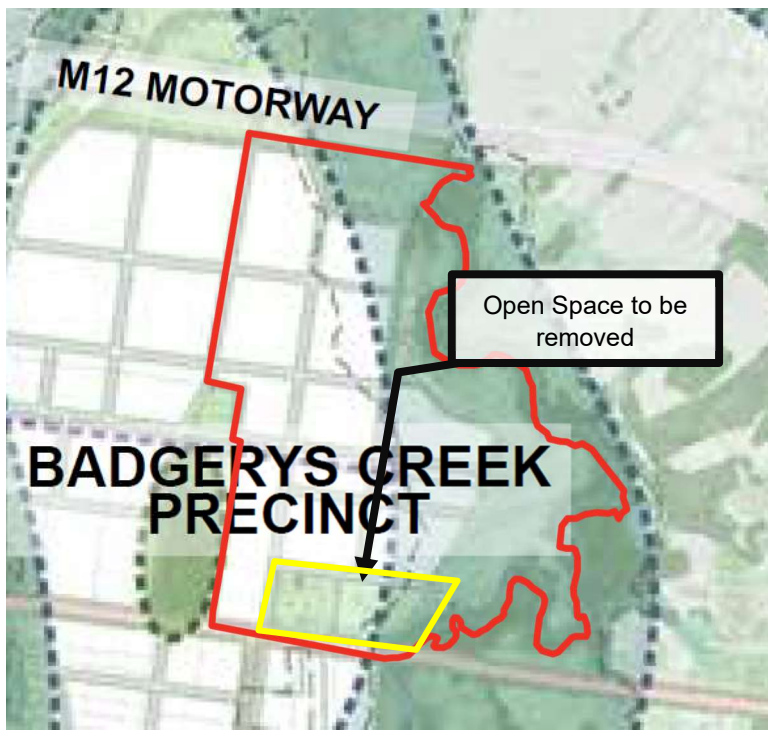
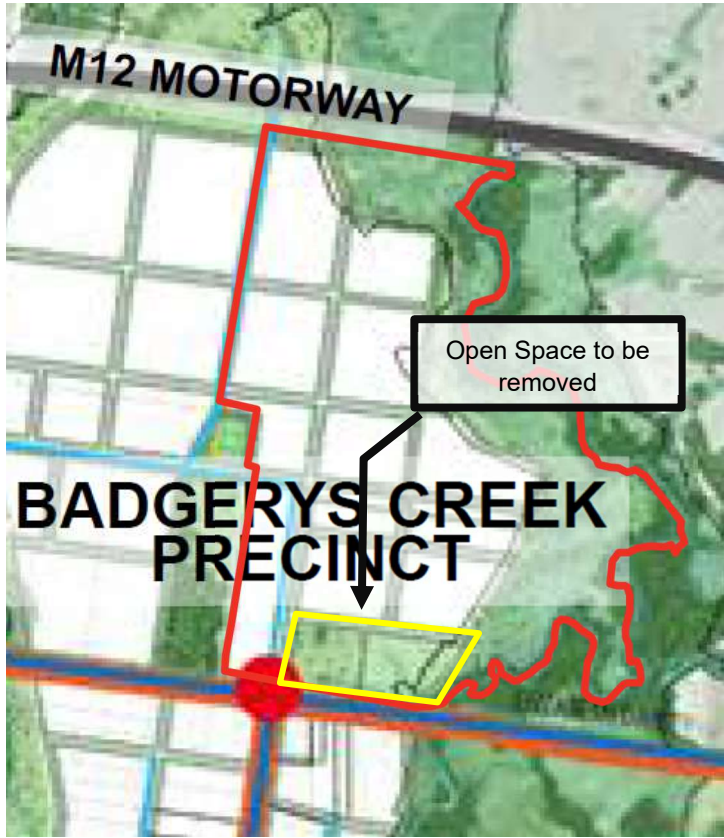
Figure Reference	Figure Extract	Proposed Amendments
Figure 18	 <p>The map shows the M12 Motorway at the top. A red outline defines the Badgerys Creek Precinct. A yellow rectangle is located within the precinct, and a black arrow points from a text box labeled 'Open Space to be removed' to this rectangle.</p>	<p>This figure is to be amended to remove the open space fronting Elizabeth Drive.</p>
Figure 19	 <p>The map shows the M12 Motorway at the top. A red outline defines the Badgerys Creek Precinct. A yellow rectangle is located within the precinct, and a black arrow points from a text box labeled 'Open Space to be removed' to this rectangle. The street grid and development blocks are highlighted in blue.</p>	<p>This figure is to be amended to remove the open space fronting Elizabeth Drive.</p> <p>The street grid and development blocks should be clarified as indicative only and the road layout removed.</p>



Figure Reference	Figure Extract	Proposed Amendments
Figure 20	 <p>The map shows the Badgerys Creek Precinct outlined in red. The M12 Motorway is visible at the top. A black arrow points to a horizontal road within the precinct, labeled 'East-west cycle route to be re-classified'. Another black arrow points to a yellow-outlined rectangular area, labeled 'Open Space to be removed'.</p>	<p>It is recommended that the east-west route of the cycle path be classified as a 'cycle path within the streetscape', rather than 'off-road'.</p> <p>The street grid and development blocks should be clarified as indicative only and the road layout removed.</p>
Figure 21	 <p>This map is similar to Figure 20 but includes a red dot at the intersection of the precinct boundary and a road. The labels 'East-west cycle route to be re-classified' and 'Open Space to be removed' are present. The precinct boundary is red, and the open space is yellow-outlined.</p>	<p>It is recommended that the east-west route of the cycle path be classified as a 'cycle path within the streetscape', rather than 'off-road'.</p>



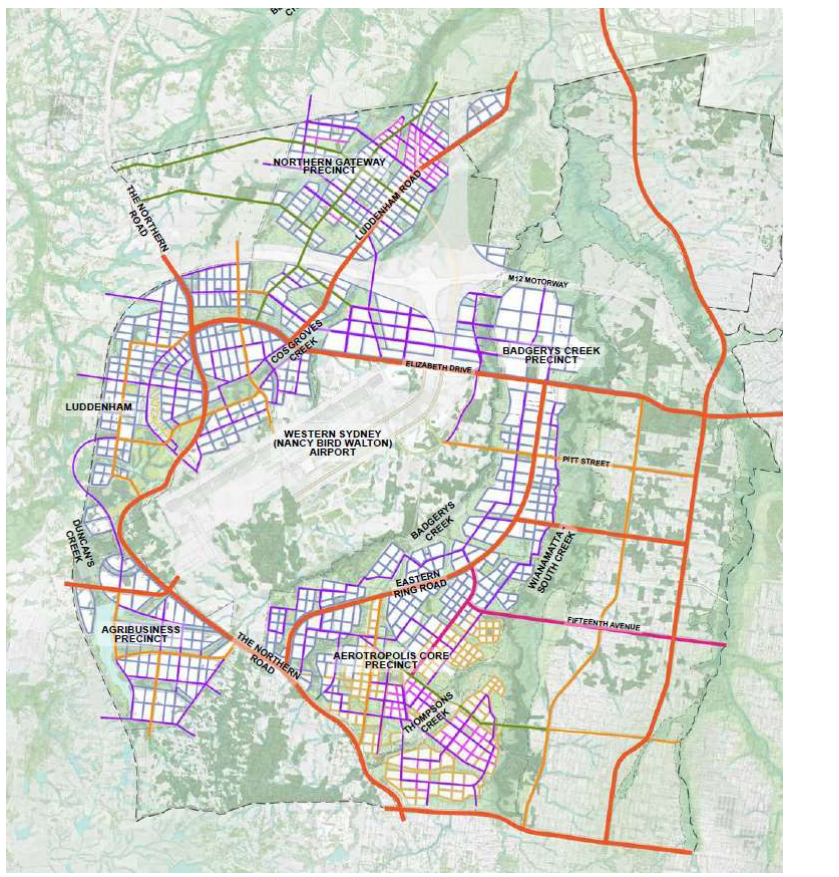
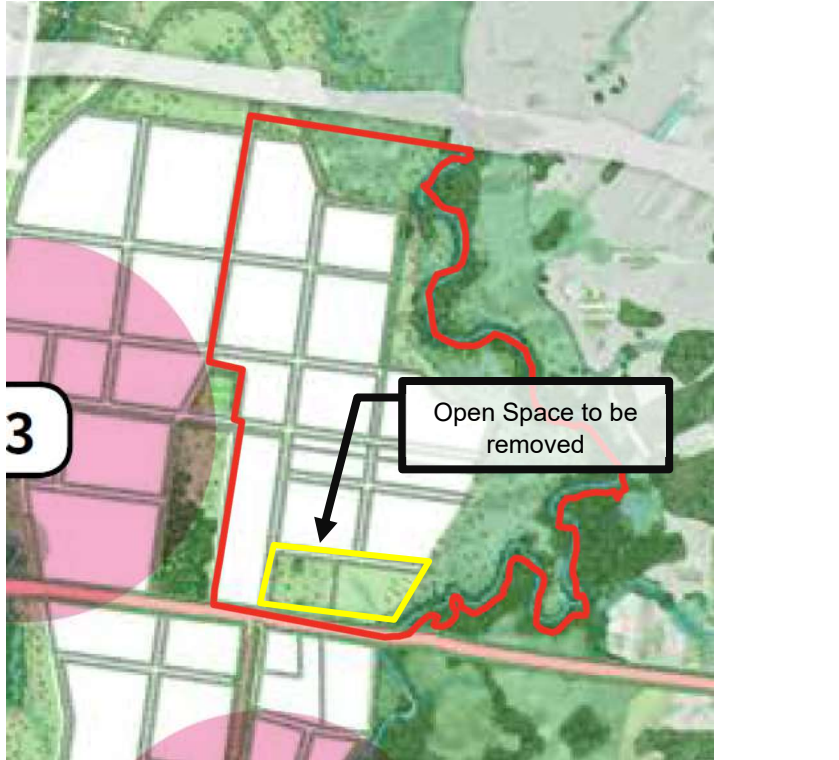
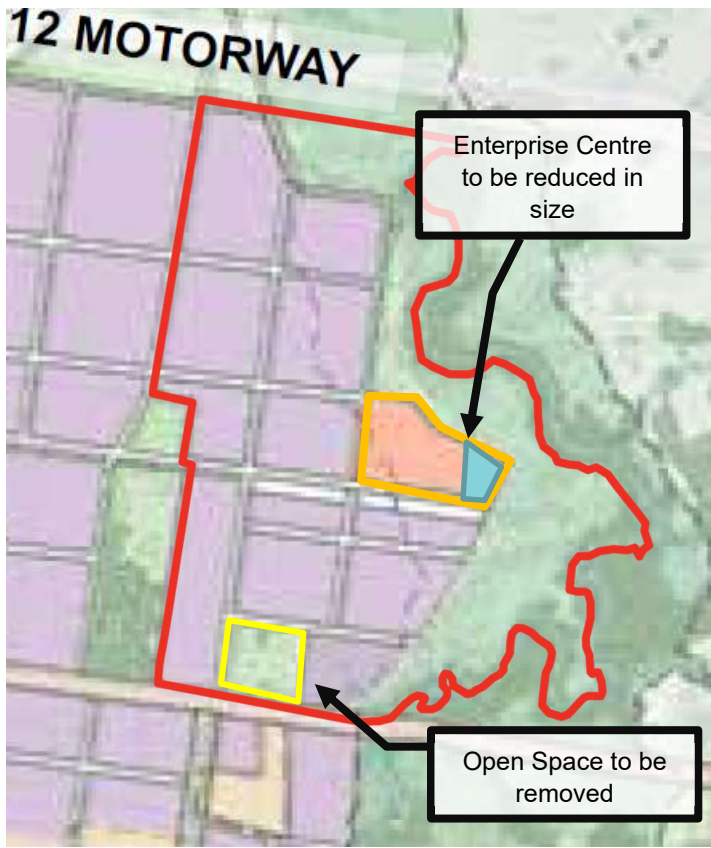
Figure Reference	Figure Extract	Proposed Amendments
Figure 22		<p>Figure 22 is too detailed for a Precinct Plan. All road types below collector roads should be removed.</p> <p>The open space shown on EEP West fronting Elizabeth Drive is to also be removed.</p> <p>The street grid and built form should be clarified as indicative only other than a key north south extension from Martins Road and a potential east west link through south of the SUEZ site</p>
Figure 29		<p>The open space is to be removed from this figure.</p> <p>The street grid and development blocks should be clarified as indicative only and the road layout removed.</p>

Figure Reference	Figure Extract	Proposed Amendments
Figure 30		<p>The Enterprise Centre as shown is to be reduced in scale given the envisaged viability and requirements for the EEP West site. The blue area is the intended size for this Enterprise Centre.</p> <p>The open space is to be removed from this figure.</p> <p>The street grid and development blocks should be clarified as indicative only and the road layout removed.</p>

## 7.0 Conclusion

In summary, the requirements in the Draft Precinct Plan are far too prescriptive and detailed for a Precinct Plan. Many of the prescriptive requirements would be more appropriate in the Phase 2 DCP with the ability to vary or provide alternative solutions where the objectives of the final Precinct Plan can still be met or to facilitate orderly and timely development.

Mirvac is willing to meet with the Planning Partnership and DPIE to run through these concerns to ensure that the final version of the Precinct Plan is appropriate in terms of its planning controls and operability to enable the delivery of the Badgerys Creek Precinct in support of the broader Western Sydney Aerotropolis and look forward to the opportunity to progress the vision for EEP and advance this exciting precinct.

21 January 2021

Our ref: 12694

Mirvac  
George Street Sydney

Attention: Daniel Brook

Dear Daniel,

**Draft Aerotropolis Planning Package and the Elizabeth Enterprise Precinct (EEP) for Mirvac**

Eco Logical Australia has reviewed biodiversity and riparian related documents that have been publicly exhibited for the Western Sydney Aerotropolis to determine how they affect Stage 1 and 2 of Mirvac's Elizabeth Enterprise Precinct (EEP).

The EEP is split between two Aerotropolis precincts:

- The riparian corridor and floodprone land generally sit within the Wianamatta-South Creek Precinct
- The developable land sits within the Badgerys Creek Precinct

The attached table highlights clauses of note in the documents but has not attempted to identify all references to biodiversity or riparian management. In addition to the documents reviewed, parts of the EEP site will be subject to the Cumberland Plain Conservation Plan. A significant portion of Stage 2 is proposed as 'Non-certified – Western Sydney Aerotropolis' which are intended to be used for open space and environmental landuses, not development. The boundary of the non-certified land appears to be based on flooding constraint rather than biodiversity. This has previously been discussed with Mirvac and is not discussed further in this report.

The main findings of the review are that there is an inconsistency between exhibited maps that is relevant to EEP:

- Figure 3 (Structure Plan), figure 4 (Zoning Plan) and figure 7 (Joint Precinct Plan) are generally consistent with regard to environmental areas on the EEP site which are restricted to the floodprone land.
- However figures 10, 12 and 16 of the Draft Aerotropolis Precinct Plan indicate an area of open space extending into the developable areas in the southern portion of EEP Stage 1. This appears to be provided to protect two small 1<sup>st</sup> or 2<sup>nd</sup> order watercourses as shown on Figure 16.

Eco Logical Australia undertook field survey in this area and found that the mapped watercourses did not meet the definition of a 'river' under the Water Management Act. Grassy drainage depressions may




convey surface water after rainfall, but there was no defined bed or bank (ie, no channel) and little native vegetation. Attachment 2 contains a description of these reaches.

In order to obtain consistency in planning framework, Eco Logical Australia recommends a submission advising that that watercourses shown in Figures 10, 12 and 16 (as potentially other figures) do not exist on ground and that plans should be based on ground-truthed information where available.

If you have any questions regarding the following analysis, please do not hesitate to contact me on [REDACTED]

Regards,

A light blue rectangular box containing a handwritten signature in dark ink, which appears to be 'DB'.

David Bonjer

Principle Planner, NSW

Document/section	Clause	Relevance to EPP
<b>Draft Biodiversity Assessment Report</b>		This document applies to the Growth Centres Precincts only and therefore does not apply to the EEP site.
<b>Draft Growth Centres Biodiversity Consistency Report</b>		As above.
<b>Draft Growth Centres Strategic Assessment Consistency Report</b>		As above.
<b>Draft Aerotropolis Precinct Plan</b>		
2. Precinct Plan Framework Key driver 2: Landscape-led	<i>A landscape-led approach recognises waterways, parks or green spaces as the kind of elements that should shape the future of a city.</i>	The EEP has a significant riparian area that will require protection and management. This is consistent with the ELA Riparian Report.
3.2 Blue Green Grid	Guiding Principle 9: <i>Retain 2<sup>nd</sup> order and ephemeral creeks along their natural alignment and restore them with appropriate planting in open space areas</i>	Several of the figures in the Draft Aerotropolis Precinct Plan (figures 10, 12, 16 etc) show an area of open space and retention of watercourses near Elizabeth Drive. ELA field validated that these watercourses (1 <sup>st</sup> and 2 <sup>nd</sup> order) did not meet the definition of a 'river'. The Aerotropolis Plan may be looking to re-establish watercourses in these drainage depressions for overland flow. Attached below are photos and descriptions of these areas.
	Guiding principle 16: <i>Achieve an average overall tree canopy of 40%, with the approach for 60% canopy for local open space, 45% for district open space and 65% for regional open space, and where tree canopy cover that falls within the APZs, cannot be included within the tree canopy target.</i>	The floodprone area of the EEP has existing tree canopy. The % cover has not been calculated, however additional tree planting may be required within the open space area to meet this target.
	Conceptual approach (pp68-69) indicates vegetated 40m wide corridor and outside that on flood prone land there should be recreation/leisure with lawn, trees, parks etc	The ELA riparian assessment shows the 40m corridor from Top of Bank. The Aerotropolis Plan is therefore consistent with ELA assessment and NRARs Guidelines for Riparian Corridors on Waterfront Land.
3.2.4 Riparian Corridors and farm dams	BG5 <i>Protect, restore and maintain vegetated riparian zones (VRZ) adjacent to creeks and other water bodies and explore opportunities to revegetate beyond standard VRZs to maximise</i>	Given the amount of open space available outside of the 40m corridor, Mirvac could revegetate beyond the 40m.

Document/section	Clause	Relevance to EPP
	<i>biodiversity outcomes and achieve urban canopy targets, particularly within Wianamatta-South Creek Precinct.</i>	
3.2.8 Biodiversity and vegetation corridors	<p>BGO3</p> <p><i>Avoid development in areas of high biodiversity value and designate urban capable land to be biodiversity certified in each nominated area identified in the draft Cumberland Plain Conservation Plan.</i></p>	<p>Figure 16 on page 84 shows riparian corridor (within 40m of Top of Bank) as HEV. This is consistent with standard approach and should not impinge on developable footprint.</p> <p>However the figure also shows <i>HEV waterways and water dependent ecosystems outside VRZ</i> on the two 'watercourses' near Elizabeth Drive. ELA field survey indicated these mapped watercourses did not meet the definition of a river. The draft Cumberland Plain Conservation Plan only shows protection of the main riparian corridor and does not include the two small mapped watercourses. We also note that the Draft Stormwater and Water Cycle Management Plan acknowledges that groundtruthing of watercourses is still being undertaken for that report.</p>
Supporting map with lot boundaries	Map shows South Creek and no other tributaries within Stage 1 and 2.	The mapped rivers in his figure are consistent with ELAs assessment.
<b>Draft Stormwater and Water cycle Management Plan</b>		
s3.4	<p>Groundtruthing still being done and will recommend waterways for retention.</p> <p>A Riparian corridor strategy is currently being completed that will include top of bank mapping that will inform setbacks for development and stormwater assets</p>	<p>Opportunity to submit that ELA has groundtruthed watercourses and believes the small mapped watercourses near Elizabeth Drive do not meet the definition of a 'river'.</p>
<b>Draft Western Sydney Wildlife Management Assessment Report</b>	<p>Page 52</p> <p>AS08 Landscaping within the Enterprise Zone and Agribusiness Zone must comply with the Landscape design Guidelines dated May 2020 except where the property is subject to biodiversity certification or identified as one of the key government commitments</p>	<p>There is potential conflict between the recommended species planting list contained in the Wildlife Assessment Report and the objectives to retain and manage riparian corridors. The Wildlife Management Report acknowledges this conflict.</p> <p>Whilst the issue is not likely to affect the development footprint for the EEP, the inconsistency between documents has potential to cause problems when designing the development and obtaining approval from agencies.</p>

Document/section	Clause	Relevance to EPP
	AS09 Any stormwater detention within the 3km and 8km wildlife buffer is to be designed to fully drain within 48 hours after a rainfall event.	



Figure 1 Extract from Figure 16 in the draft Aerotropolis Precinct Plan



# Validated Top of Bank (March 2018)



## Legend

- Site Boundary
- Riparian Corridor
- Inner 50% of VRZ

## Validated top of bank (proposed WM Act status)

- Not a River
- River

0 40 80 160  
Metres

GDA 1994 MGA Zone 56

nearmap  
29/12/2018



eco  
logical  
AUSTRALIA  
www.ecoaus.com.au

Prepared by: EM Date: 13/03/2019



**Reach 1A and 1B:** These first order streams have no defined bed or bank or evidence of geomorphic processes. Both creeks were cleared grassy depressions that may flow during heavy rain. The riparian zone and drainage line was cleared grazing land. Dense thickets of *Rubus fruticosus* (Blackberry) were present in Reach 1A.



*1A Facing upstream – no defined channel*



*1A Facing downstream – no defined channel*



*1B Facing upstream – no defined channel*



*1B Facing downstream – no defined channel*

**Reach 2A:** The second order stream had no defined channel until the dense riparian trees near South Creek. Here the channel was 1 – 2 m wide with steep banks up to 3 m high. This meandering channel was dry with no aquatic macrophytes present except near the confluence with South Creek where the invasive species *Alternanthera philoxeroides* (Alligator Weed) dominated the dry channel. *Casuarina glauca* lined both banks. There was no fish habitat present, but during floods the water would backup from South Creek. The dense groundcovers and woody debris provides suitable habitat to frogs.





*Start of the channel – facing downstream*



*Facing upstream*



# Elizabeth Enterprise Precinct Stage 1

Non-Aboriginal Archaeological  
Research Design

Report to Mirvac Projects Pty Ltd

July 2020



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## EXECUTIVE SUMMARY

Mirvac Projects Pty Ltd (Mirvac) are proposing to develop a Waste Disposal Facility at 1669 – 1732 Elizabeth Drive, Badgerys Creek, for the disposal of clean waste spoil material resulting from the construction of critical State Significant Infrastructure and building projects.

Artefact Heritage (Artefact) were engaged by Mirvac to prepare a Statement of Heritage Impact (SoHI) report for the project in 2019.<sup>1</sup> The SoHI found that the study area was once the property of James Badgery, an early settler in the colony, and that his original homestead “Exeter Farm”, was once located on the property. The SoHI concluded that there was the potential for significant archaeological remains related to Badgery’s “Exeter Farm” homestead to be located within the study area and recommended further archaeological management of these resources prior to ground disturbing works conducted at the site.

As a result, Mirvac engaged Artefact to prepare a non-Aboriginal Archaeological Research Design (ARD)<sup>2</sup> in support of an application for a section 139 exception (s139) for archaeological testing under the NSW *Heritage Act 1977* (approved by Heritage NSW, Department of Premier and Cabinet (Heritage NSW, DPC) on 8 January 2020, DOC19/1036338).

The test excavation program confirmed that the study area contains locally significant archaeological relics associated with the second Exeter Farm house (c. late 1800s, locally significant) and works associated with a post-1920 farm building (does not reach the local significance threshold). No evidence of state significant archaeological remains associated with the early development of the site were identified, including the wattle and daub cottage (first house of Badgery Family, 1809 – 1810/1812) and the first brick Exeter Farm House (constructed c. 1810). The results of the test excavation have been summarised in Section 3.3.1.

Consequently, the ARD recommended that a s140 excavation permit should be sought from Heritage NSW, DPC to approve archaeological salvage excavations at the study area. This ARD has been prepared to support this application.

## Conclusions

Based on the results of historical research and archaeological testing, this ARD has identified the following:

- James Badgery received a land grant, which included the current study area, in 1809. Badgery established a working farm and dairy with the assistance of government-allotted convict labour
- Badgery built his first substantial house on the property between 1810 and 1812, a brick homestead called Exeter Farm. Two potential locations for this homestead were identified from historical research. The location was unable to be verified following a site visit with an individual involved in the 1973 excavation of the first Exeter house and archaeological test excavation in 2020

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<sup>1</sup> Artefact, 2019a. Elizabeth Enterprise Precinct, Stage 1: Non-Aboriginal Statement of Heritage Impact. Report prepared for Mirvac.

<sup>2</sup> Artefact, 2019b. Elizabeth Drive Non-Aboriginal Archaeological Research Design Report. Report prepared for Mirvac.

- Later landowners constructed a second Exeter Farm homestead, probably in the late nineteenth century, which became the primary residence of the property. This building was demolished in 2006.
- Historical test excavation completed in 2020 identified intact archaeology associated with the second Exeter house and remains of a later 20<sup>th</sup> century farm building
- Proposed ground disturbing works would entirely remove all areas of predicted significant archaeological potential. The proposal would result in a **major** impact to potential archaeological remains.

## Recommendations

- A program of archaeological monitoring and salvage should be carried out within the study area prior to subsurface excavations. This program would include both monitoring and targeted salvage excavations, predominantly focused on areas known to contain intact artefact bearing deposits of local significance. This document accompanies an application for a s140 excavation permit from NSW Heritage Division. The archaeological salvage program would be undertaken within the requirements of this permit.
- If archaeological remains of State significance, or locally significant remains not identified in the SoHI or this ARD, are unexpectedly identified during the archaeological program, works in the affected area would cease and Heritage NSW, DPC would be notified. Additional assessment and further approval may be required prior to the recommencement of excavation
- Should State significant remains associated with early nineteenth century convict accommodation and workshops be identified significantly intact during test excavation work, opportunities for retaining these remains *in situ* and redesigning works to avoid impacts should be considered.

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## 1.0 INTRODUCTION

### 1.1 Introduction

Mirvac are proposing to develop a Waste Disposal Facility at 1669 – 1732 Elizabeth Drive, Badgerys Creek, for the disposal of clean waste spoil material resulting from the construction of critical State Significant Infrastructure and building projects (the project).

Artefact Heritage (Artefact) were engaged by Mirvac to prepare a Statement of Heritage Impact (SoHI) report for the project in 2019.<sup>3</sup> The SoHI found that the study area was once the property of James Badgery, an early settler in the colony, and that his original homestead “Exeter Farm”, was once located on the property. The SoHI concluded that there was the potential for significant archaeological remains related to Badgery’s “Exeter Farm” homestead to be located within the study area and recommended further archaeological management of these resources prior to ground disturbing works were conducted at the site.

As a result, Mirvac engaged Artefact to prepare a non-Aboriginal Archaeological Research Design (ARD)<sup>4</sup> in support of an application for a section 139 exception (s139) for archaeological testing under the NSW *Heritage Act 1977* (approved by Heritage NSW, Department of Premier and Cabinet (Heritage NSW, DPC) on 8 January 2020, DOC19/1036338).

The test excavation program identified an intact archaeological resource associated with the second Exeter Farm house (c. late 1800s, locally significant) and a post-1920 farm building (does not reach the local significance threshold). No evidence of state significant archaeological remains associated with the early development of the site were identified, including the wattle and daub cottage (first house of Badgery Family, 1809 – 1810/1812) and the first brick Exeter Farm House (constructed c. 1810). The results of the test excavation have been summarised in Section 3.3.1.

Consequently, the ARD recommended that a s140 excavation permit should be sought from Heritage NSW, DPC to approve archaeological salvage excavations at the study area. This ARD has been prepared to support this application.

### 1.2 Study area

The study area comprises 1669 – 1723 Elizabeth Drive, Badgerys Creek (Lot 5 / DP 860456). The study area is a 54.41 hectare (ha) rural property located within the boundaries of the Penrith Local Government Area (LGA) and the Western Sydney Priority Growth Area. The study area is within the parish of Claremont within the country of Cumberland. The location of the study area is illustrated in Figure 1.

### 1.3 Authorship

This report was prepared by Jenny Winnett (Principal and Excavation Director), Duncan Jones (Principal) and Jayden van Beek (Senior Heritage Consultant). Josh Symons (Principal) and Jacob Mark (Historian) prepared the background to 3.1 of this report. Management input and review was provided by Dr Sandra Wallace (Managing Director).

<sup>3</sup> Artefact, 2019a. Elizabeth Enterprise Precinct, Stage 1: Non-Aboriginal Statement of Heritage Impact. Report prepared for Mirvac.

<sup>4</sup> Artefact, 2019b. Elizabeth Drive Non-Aboriginal Archaeological Research Design Report. Report prepared for Mirvac.

Figure 1: Location and extent of study area



### Study Area

19024 Elizabeth Drive Enterprise Precinct

LGA: Penrith

Scale: 1:7500  
Size: A4  
Date: 22-03-2019



## 1.4 Limitations

This report is based on historical research and field inspections. These methods are not always precise and are subject to methodological inaccuracies. Therefore, there is always the potential for unexpected archaeological remains to be encountered during subsurface excavations. It is possible that further historical research or the emergence of new historical sources may support different interpretations of the evidence in this report.

The maps in this report are for informational purposes only and are not suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information.

The significance assessment made in this report is a combination of both facts and in accordance with a standard set of assessment criteria. It is possible that another professional may interpret the historical facts and physical evidence in a different way.

A summary of the statutory requirements regarding heritage is provided in Section 2.0. It should be noted that legislation, regulations and guidelines change over time and users of this report should satisfy themselves that the statutory requirements have not changed since the report was written.

This ARD and Excavation Methodology targets non-Aboriginal archaeology only (with the exception of contact archaeology). A separate Aboriginal Archaeological Assessment has been prepared by Artefact Heritage to manage this component of the project.



## 2.0 STATUTORY CONTEXT

### 2.1 Heritage Act 1977

The NSW *Heritage Act 1977* (Heritage Act) is the primary piece of State legislation affording protection to heritage items (natural and cultural) in NSW. Under the Heritage Act, 'items of environmental heritage' include places, buildings, works, relics, moveable objects and precincts identified as significant. Significance is based on historical, scientific, cultural, social, archaeological, architectural, natural or aesthetic values.

The State Heritage Register (SHR) was established under Section 22 of the Heritage Act and is a list of places and objects of particular importance to the people of NSW, including archaeological sites. The SHR is administered by the Heritage NSW, DPC and includes a diverse range of over 1500 items, in both private and public ownership. To be listed, an item must be deemed to be of heritage significance for the whole of NSW.

#### 2.1.1 2009 Relics Provisions

The Heritage Act provides protection for archaeological 'relics' including significant archaeological material or deposits. Section 4 (1) of the Heritage Act (as amended in 2009) defines a relic as:

---

*...any deposit, artefact, object or material evidence that:*

*relates to the settlement of the area that comprises New South Wales, not being Aboriginal settlement, and is of State or local heritage significance*

---

Furthermore, the document *Assessing Significance for Archaeological Sites and 'Relics'* includes the following regarding archaeological relics:

---

*Relevant case law and the general principles of statutory interpretation strongly indicate that a 'relic' is properly regarded as an object or chattel. A relic can, in some circumstances, become part of the land be regarded as a fixture (a chattel that becomes permanently affixed to land).<sup>5</sup>*

---

Section 139 (Division 9: Section 139, 140 – 146) of the Heritage Act states:

- (1) A person must not disturb or excavate any land knowingly or having reasonable cause to suspect that the disturbance or excavation will or is likely to result in a relic being discovered, exposed, damaged or destroyed unless the disturbance is carried out in accordance with an excavation permit.
- (2) A person must not disturb or excavate any land on which the person has discovered or exposed a relic except in accordance with an excavation permit.
- (3) This section does not apply to a relic that is subject to an interim heritage order made by the Minister or a listing on the State Heritage Register.
- (4) The Heritage Council may by order published in the Gazette create exceptions to this section, either unconditionally or subject to conditions, in respect of any of the following:
  - a. Any relic of a specified kind or description,

---

<sup>5</sup> *Assessing Significance for Archaeological Sites and 'Relics'*, Heritage Branch, Department of Planning, 2009:7.



- b. Any disturbance of excavation of a specified kind or description,
- c. Any disturbance or excavation of land in a specified location or having specified features or attributes,
- d. Any disturbance or excavation of land in respect of which an archaeological assessment approved by the Heritage Council indicates that there is little likelihood of there being any relics in the land.

Excavation permits are issued by the Heritage Council of NSW, or its Delegate, under Section 140 of the Heritage Act. An application for an excavation permit must be supported by an ARD and Archaeological Assessment prepared in accordance with relevant archaeological guidelines. Impact to known archaeological relics should not occur prior to approval from Heritage NSW, DPC.

### 2.1.2 Works

The Heritage Act places 'works' in a separate category to archaeological 'relics'. 'Works' are typically remnants of historical structures that are considered to be items of environmental heritage but are not associated with artefact bearing material. Impacts to a 'work' do not require approval from the NSW Heritage Council or its delegate. The following examples of remnant structures have been considered to be 'works' by the NSW Heritage Council:

- Evidence of former infrastructure, where there are no historical artefacts in association with the item
- Historical building footings where there are no historical artefacts in association with the item.

Where buried remnants of historical structures are located in association with historical artefacts in controlled historical contexts (such as intact historic glass, ceramic or bone artefacts), which have the potential to inform research questions regarding the history of a site, the above items may not be characterised as 'works' and may be considered to be 'relics'. The classification of archaeological resource as a 'work' therefore is contingent on the predicted remains being associated with historical structures as well as there being no prediction of the recovery of intact artefactual deposits which may be of research interest.

Archaeological works must be managed in accordance with their significance.

## 2.2 Environmental Planning and Assessment Act 1979

The *Environmental Planning and Assessment Act 1979* (EP&A Act) establishes the framework for cultural heritage values to be formally assessed in the land use planning and development consent process. The EP&A Act consists of three main parts of direct relevance to Aboriginal cultural heritage; Part 3 which governs the preparation of planning instruments, Part 4 which relates to development assessment processes for local government (consent) authorities, and Part 5 which relates to activity approvals by governing (determining) authorities.

Planning decisions within LGAs are guided by Local Environmental Plans (LEPs). Each LGA is required to develop and maintain an LEP that includes Aboriginal and historical heritage items which are protected under the EP&A Act and the *Heritage Act 1977*. The study area is located in the Penrith LGA and is subject to consents under the Penrith LEP 2010.

### 2.2.1 Penrith LEP 2010

The study area falls within the boundaries of the Penrith LGA. Clause 5.10 outlines the provisions which apply to heritage conservation and requirements in relation to development applications affecting a heritage item or within a conservation area. The aim of the LEP in relation to heritage is to conserve the heritage significance of heritage items and heritage conservation areas, including associated fabric, settings, views and archaeological sites. The LEP lists identified items of heritage significance in Schedule 5.

The Penrith Development Control Plan (DCP) provides guidelines for development proposals and heritage under Part C 7 Culture and Heritage. It provides examples of the types of development and how this could affect heritage, and what requirements are needed before development can commence, such as heritage impact statements. Controls are listed depending on what type of development is proposed. The controls for currently listed LEP items encourage the retention of the items while enabling sympathetic change. New development must not diminish the significance of the item.

The following clauses apply to places of heritage significance within the Penrith LGA, under Part 5 Clause 5.10 of the Penrith LEP 2010:

---

(1) *Objectives*

*The objectives of this clause are as follows:*

(a) *to conserve the environmental heritage of Penrith*

(b) *to conserve the heritage significance of heritage items and heritage conservation areas, including associated fabrics, settings and views,*

(c) *to conserve archaeological sites,*

(d) *to conserve Aboriginal objects and Aboriginal places of heritage significance*

---

## 3.0 REVISED ARCHAEOLOGICAL CONTEXT

### 3.1 Introduction

Archaeological potential is defined by the NSW Heritage Division Archaeological Assessment Guidelines as ‘the degree of physical evidence present on an archaeological site’. Archaeological potential can be subdivided into the following categories, based on the likely occurrence of archaeological material, previous impacts, findings from nearby archaeological excavations and previous geotechnical investigations:

<b>High Potential</b>	areas with known archaeological remains evidenced by ground truthing and/or a lack of previous impacts;
<b>Moderate Potential</b>	areas that may have archaeological remains based on other lines of evidence such as maps or documents where the extent of impacts is unknown;
<b>Low Potential</b>	areas that are likely to have minimal archaeological remains based on analysis of known or likely disturbance and previous land use and occupation;
<b>Nil Potential</b>	areas where it is known that archaeological remains will not occur such as deep basements, heavily disturbed ground and areas known to have remained unoccupied throughout the area’s European history

### 3.2 Historical development

The following provides an overview of the historical context of the study area taken primarily from the SoHI<sup>6</sup> and ARD prepared for the project.<sup>7</sup> These documents have been submitted to Heritage NSW, DPC in support of s139 exception application DOC19/1036338. Additional historical context is included in these documents.

Based on historical research and aerial imagery for the Exeter Farm site, construction and demolition events within the study area are summarised in Table 1.

**Table 1: Overview of historic land use and associated structures in the study area**

Date	Structures in study area
<b>c.1809</b>	Construction of wattle and daub residence. It is possible that this included the construction of basic amenities, including a separate kitchen, skillions, outbuildings and wells/cisterns.  It is assumed that this period would also have seen the clearing of area around the house for later construction of Exeter House, construction of fencing and establishment of gardens.  The study area would initially have required vegetation clearing. Land clearing activities are typically archaeologically ephemeral, as is the use of partially cleared land for grazing of livestock.
<b>1810 - 1812</b>	Enclosure of the land with fencing, divided into paddocks with stockyards and a large garden by the house.
<b>1823</b>	Description of the property as comprising a convict quarters, hut for the overseer near the back fence, hut for the blacksmith and his wife, Exeter Farm farmhouse, and a barn.
<b>1869</b>	Description of the property as a notable dairy farm in the area

<sup>6</sup> Artefact 2019a.

<sup>7</sup> Artefact 2019b.

Date	Structures in study area
1920	Crown plan made, property briefly used as part of the Soldier Settlement Scheme
c.1930	Construction and improvement of buildings for continued dairying operations
c.1955-1961	Possible date for the demolition of the original brick farmhouse
1973	Excavation of a part of the footings of the original farmhouse by the land owners at that time (Nobbs) and descendants of the Badgery family. The two 1799 English farthings placed under the foundations by James and Elizabeth Badgery were retrieved during these works. The precise location of this building was not clearly identified.
Pre September 2006	Later brick farmhouse and remaining farm structures demolished.

The development of the study area has been divided into the phases outlined in Table 2. The development of the site in terms of structural remains is illustrated in Figure 2.

**Table 2: Historical phases of land use in the study area**

Phase	Date	Historical activities
<b>Phase 1: Badgery Land Grant</b>	1809 – 1839	Land grant to James Badgery, land clearing, construction of original wattle and daub residence, brick farmhouse, blacksmith workshop, convict accommodation and farm sheds.
<b>Phase 2: 19<sup>th</sup> C. Dairy</b>	1840 – 1920	Property is taken up by the Roberts family and is known to be a notable dairy by the 1860s. The brick farmhouse (demolished in 2006) was constructed during this time to replace the original brick farmhouse as the primary residence.
<b>Phase 2: 20<sup>th</sup> C. Dairy</b>	1921 - 2006	Brief use as part of Soldier Settlement Scheme, owned by Kent and Nobbs families as an active dairy during this time. The western annex to the late 19 <sup>th</sup> c. farmhouse and possible brick cottage in the northern paddock are demolished in the late 1950s
<b>Phase 4: Modern use</b>	2006 – present	Residential buildings, sheds and barns demolished, and the property used for agistment.

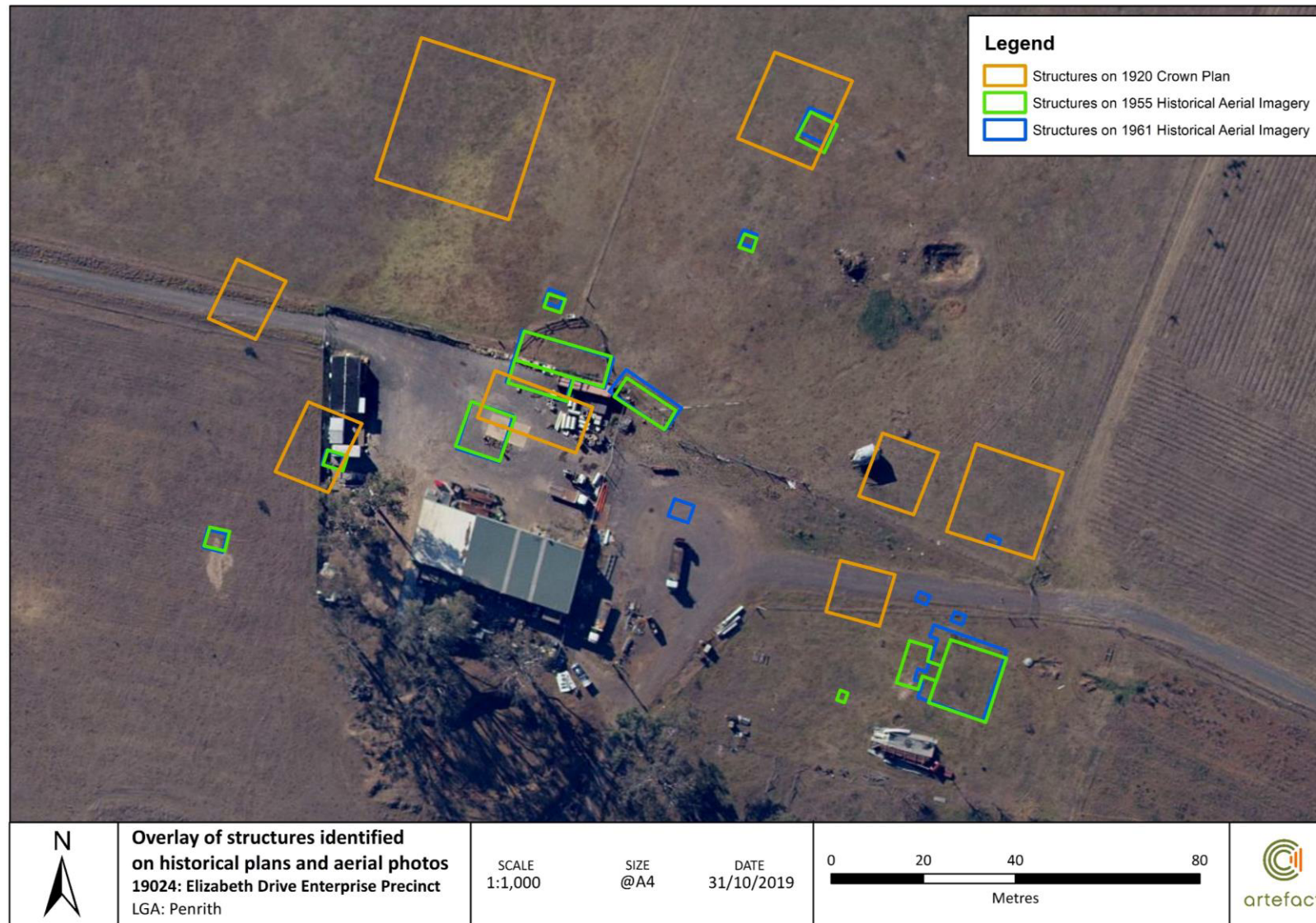


Figure 2: Overlay of structures in the study area from the 1920 crown plan, and 1955 and 1961 aerial photographic imagery



### 3.3 Results of archaeological testing

#### 3.3.1 Historical testing

The archaeological test excavation was conducted under a s139 exception DOC19/1036338, between 9 – 20 March 2020. A total of five test trenches were excavated in accordance with the methodology outlined in the ARD and illustrated on Figure 8.<sup>8</sup>

A summary of the findings from each test trench is included in Table 3 below.<sup>9</sup>

The test excavation findings have contributed to the partial revision of the assessment of archaeological potential completed in 2019, as summarised in Section 3.4.

The testing program did not identify remains associated with historical Phase 1 in the location determined to be most likely to contain such resources. However, the site retains the potential to contain evidence of this phase below the remains of the second Exeter house.

The second most likely location of the Phase 1 Exeter farmhouse was determined to be the ridgeline, currently occupied by an asphalted laydown area. This area was archaeologically tested and found to be truncated down to the natural clay. This likely occurred during establishment of the laydown. Consequently, it was determined that the landscaping activities near TT 4 and TT 5 have likely had a greater impact on potential archaeological deposits than originally anticipated. It is unlikely archaeological remains, with the exception of deeper subsurface structural remains (wells, cisterns, etc), survive intact in this location.

**Table 3: Discussion of test trench locations as outlined in the ARD**

Test Trench Number	Assessed potential	Testing results
TT 1	Evidence of former 'brick cottage' identified on the 1920 crown plan (possibly first Exeter Farm homestead)	Concrete and brick footings and postholes associated with a post-1932 agricultural building
TT 2	Evidence of the western annex to the second Exeter Farm House (possibly associated with the first Exeter Farm homestead)	Remains of the second Exeter Farm house western annex were present in the form of brick footings and flooring. The brick and mortar used suggests a construction date between c.1860 and 1890. Artefacts identified dated into the 1930s. External features included a brick surface and cistern.
TT 3	Evidence of the second Exeter Farm House and its structural relationship with the western annex (and possible first Exeter Farm brick homestead)	Remains of the second Exeter Farm house were present in the form of brick and sandstone footings. The bricks and mortar were consistent with those identified in TT 2.
TT 4 and TT 5	Evidence of a former shed or stable identified in the 1920 crown plan	No archaeological remains identified, the area had been truncated to the underlying natural clays

<sup>8</sup> Artefact 2019b.

<sup>9</sup> Artefact 2020. *Elizabeth Enterprise Precinct, Historical Archaeological Test Excavation Results*. Report prepared for Mirvac.



**Figure 3: Northwest view showing the location of the brick wall <028> in relation to the remains of the western annex**



**Figure 4: Southeast profile view of TT 3 at the eastern end of the western annex, with the mortar like layer (010) transitioning to (060) as it moves outside the former structure**



**Figure 5: Northwest view off TT 3 showing the location of the sandstone footings <029>**



**Figure 6: Northeast detail view of the sandstone footings <029> of the second Exeter Farm House**

### 3.3.2 Aboriginal testing

Artefact Heritage was engaged by Mirvac to conduct Aboriginal archaeological test excavations for the project across two Potential Archaeological Deposits (PADs) identified during production of an Aboriginal Archaeological Survey Report (ASR).<sup>10</sup> Test excavation of PAD01 and PAD02 was undertaken in accordance with the Code of Practice<sup>11</sup> between 17 February and 6 March 2020 (see Figure 9).<sup>12</sup>

A total of 88 excavation units (excavation unit = 50 centimetres by 50 centimetres) were excavated across two testing areas. A total of two excavation units were expanded to 1 m x 1 m test pits (comprised of four individual excavation units) where comparatively higher densities of Aboriginal objects were recovered. An additional excavation unit was also placed 10 metres from an existing high-density pit to further investigate the geographic distribution of the high-density deposit within the established requirements of the Code of Practice.

<sup>10</sup> Artefact Heritage, *Elizabeth Precinct Stage 1, Archaeological Survey Report*, Report to Mirvac Projects Pty Ltd, 2019

<sup>11</sup> Department of Environment, Climate Change and Water NSW, *Due Diligence Code of Practice for the Protection of Aboriginal Objects in New South Wales*, September 2010

<sup>12</sup> Artefact Heritage, *Elizabeth Enterprise Precinct Stage 1, DRAFT Aboriginal Test Excavation Report* for Projects Pty Ltd, April 2020

A total of 89 artefacts were retrieved during excavation, including nine artefacts produced from nineteenth century 'black' bottle glass (Figure 7).<sup>13</sup> These artefacts were assessed as being intentionally manufactured tools.<sup>14</sup>

Badgery family history provides an account of the family assenting to a small group of Aboriginal people to camp on South Creek within their property, prior to the Badgery family leaving the property by the mid-1830s.<sup>15</sup> While this account is not directly corroborated, it is evidence that Aboriginal people may have camped on the property during Badgery's ownership. It is possible the worked glass artefacts are evidence of contact between Aboriginal people and the occupants of Exeter Farm. The resource has been assessed as having a high level of scientific significance.<sup>16</sup> The Aboriginal Archaeological Test Excavation Report has recommended that an area based Aboriginal Heritage Impact Permit (AHIP) is obtained for those portions of the study area to be impacted by the proposed works, to allow the surface collection of artefacts and targeted salvage excavation.



**Figure 7: Glass artefacts recovered from EP AS 02**

<sup>13</sup> Artefact Heritage, April 2020, p.50

<sup>14</sup> Artefact Heritage, April 2020, p.50

<sup>15</sup> Hardy 1989: 19

<sup>16</sup> Artefact Heritage, April 2020, p.76



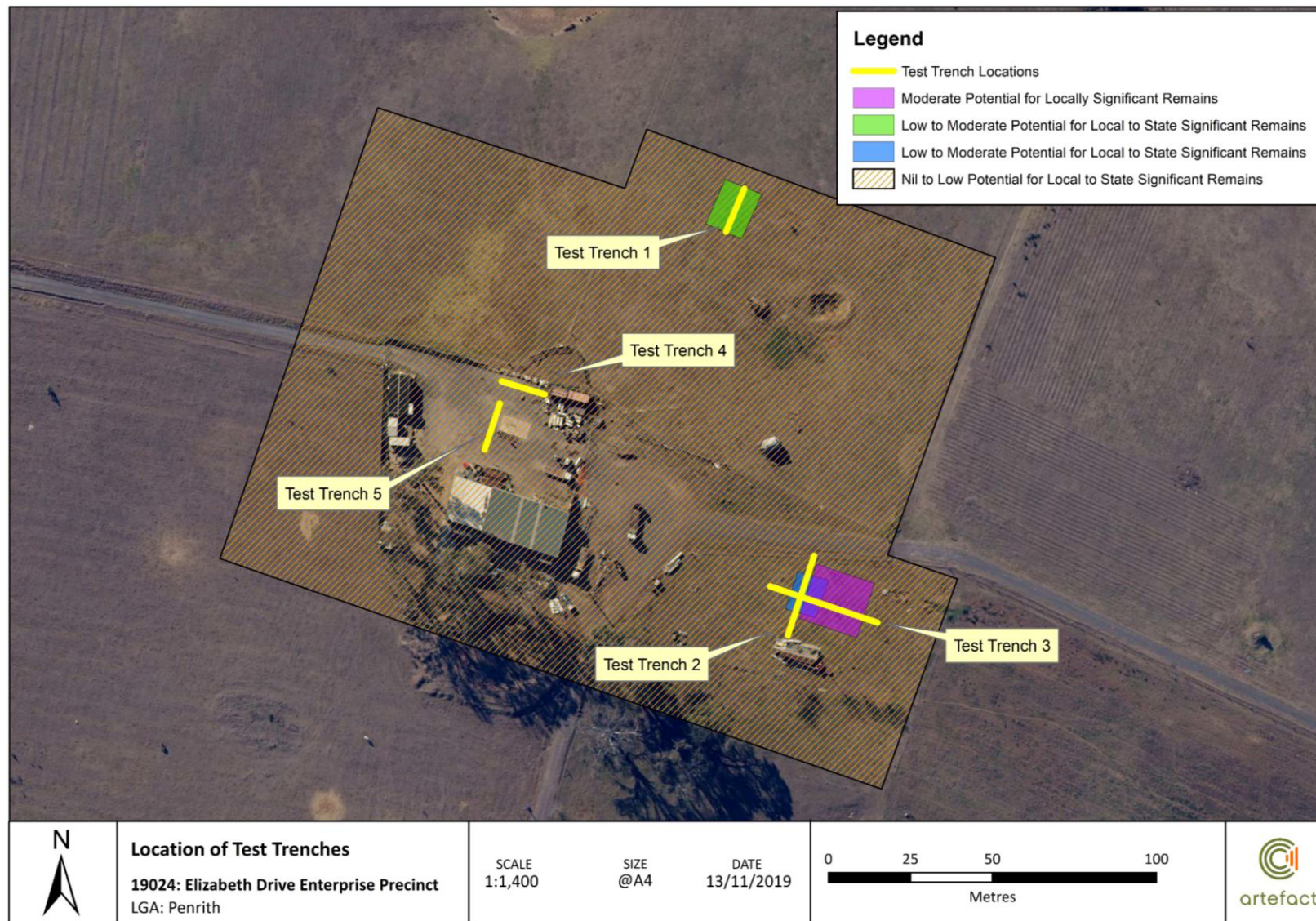


Figure 8: Locations of archaeological test trenches and archaeological potential as assessed in the 2019 ARD



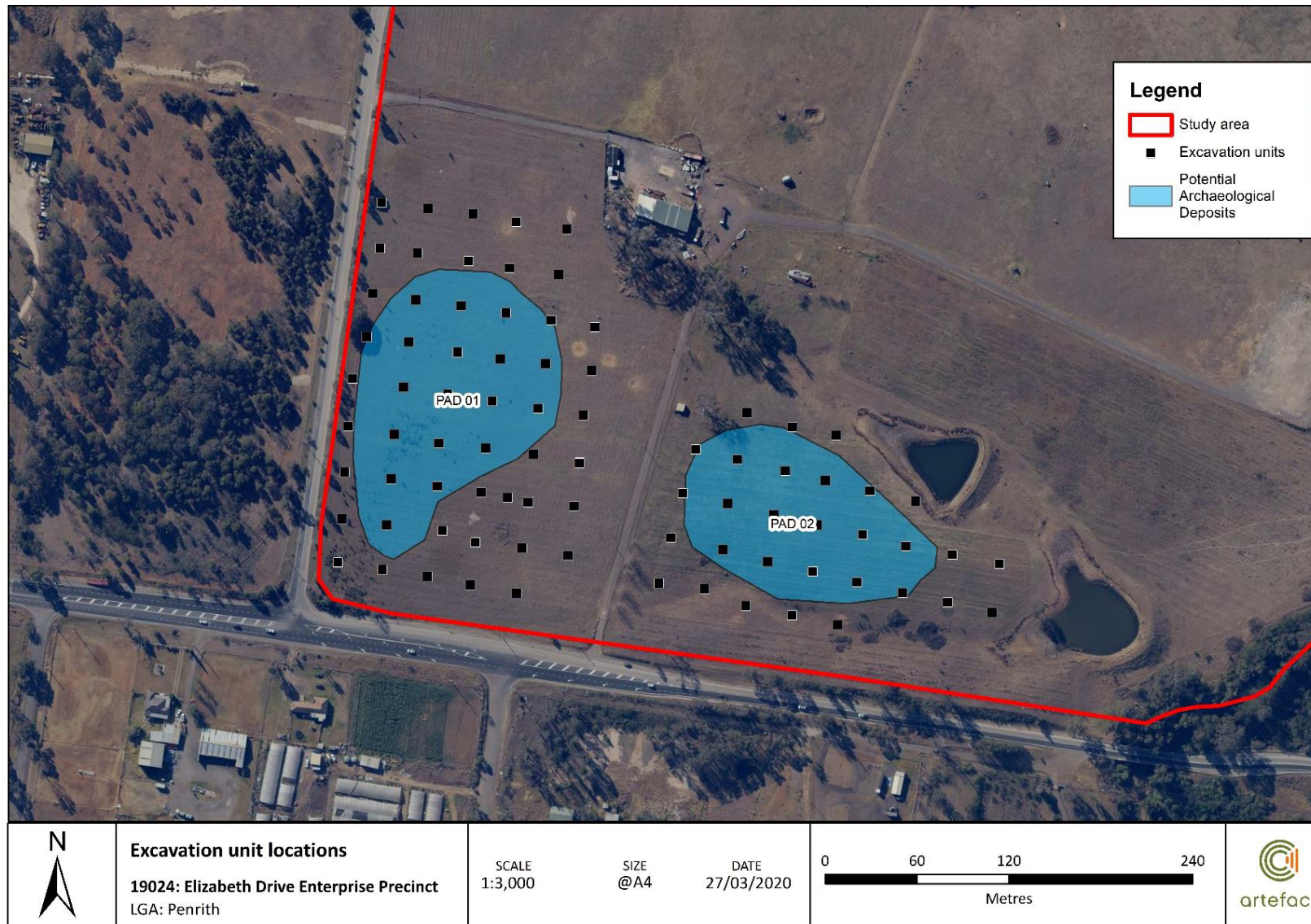


Figure 9: Excavation units across PAD 01 and PAD 02

### 3.4 Revised assessment of archaeological potential

A detailed assessment of the archaeological potential and significance of the site was outlined in the 2019 ARD<sup>17</sup> and has been summarised in Table 4 below. This revised assessment, also in Table 4, is based on the following assumptions:

- Testing has demonstrated that excavation undertaken in the last 20 years and associated with the establishment of the existing laydown area on the ridgeline has truncated the soil profile down to the natural underlying clay and this has likely substantially impacted and/or removed any potential archaeological resources in this location (as illustrated on Figure 10)
- Excavation in 1973 by Margot Badgery and the Nobbs family removed archaeological remains associated with the first Exeter Farm House. Two 1799 English farthings placed under the foundations by James and Elizabeth Badgery were retrieved during these works.<sup>18</sup> There is also reference to some of the bricks and a part of the hearthstone being retrieved and used as part of a memorial to the Badgery family at Badgerys Creek School.<sup>19</sup> It is noted that when one of the historical society members involved in the 1973 excavation attended site at the invitation of Artefact in 2019 they were unable to conclusively identify the site of the first Exeter Farm House
- Remains of the 'brick cottage' identified on the 1920 crown plan and historic aerials in the north of the study area was identified during testing, and does not pre-date the early 20th century
- Due to the presence of intact Phase
- There is limited potential for the portion of the study area nominated for historical archaeological management to contain contact archaeology. However, the presence of worked glass artefacts to the south mean that this possibility cannot be entirely discounted.

The revised areas of archaeological potential are illustrated in Figure 10.

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<sup>17</sup> Artefact 2019b.

<sup>18</sup> Donald and Dunson, 1996, p. 4

<sup>19</sup> Hardy, 1989, p. 21

**Table 4: Assessment of predicted archaeological remains within the study area**

Phase	Known structure/activity	Potential archaeological remains	2019 assessment	Updated assessment
<b>Phase 1 Badgery Land Grant (1809 – 1839)</b>	Wattle and daub cottage (first house of Badgery Family 1809 – 1810/1812)	<ul style="list-style-type: none"> <li>• Post holes, rubbish scatters, evidence of beaten earth working surfaces or paving</li> <li>• Evidence of land clearance and cultivation of land, manipulation and use of early watercourse, postholes / working or yard surfaces / occupation or refuse deposits / artefacts / footings associated with early huts, rubbish pits or wells.</li> </ul>	Nil to Low	<b>Nil to Low</b>
<b>Phase 1 Badgery Land Grant (1809 – 1839)</b>	<u>Northern Location</u> for the First Exeter House, surrounds and gardens	<ul style="list-style-type: none"> <li>• Evidence of former masonry buildings or structures (brick or stone footings, associated deposits)</li> <li>• Occupation deposits (underfloor accumulations, yard scatters, rubbish pits)</li> <li>• Paving associated with external yard divisions and landscaping</li> <li>• Postholes associated with fence lines</li> <li>• Beaten earth or paved surfaces, hearth, chimney remnants, refuse deposits associated with external kitchen</li> <li>• Evidence of landscaping (such as stone or brick retaining walls, edging, hard surfaces indicating former pathways, stone flagging)</li> <li>• Rubbish pits.</li> </ul>	Low to Moderate	<b>Low</b>

Phase	Known structure/activity	Potential archaeological remains	2019 assessment	Updated assessment
Phase 1 Badgery Land Grant (1809 – 1839)	Southern location for the First Exeter House, surrounds and gardens	<ul style="list-style-type: none"> <li>Evidence of former masonry buildings or structures (brick or stone footings, associated deposits)</li> <li>Occupation deposits (underfloor accumulations, yard scatters, rubbish pits)</li> <li>Paving associated with external yard divisions and landscaping</li> <li>Postholes associated with fence lines</li> <li>Beaten earth or paved surfaces, hearth, chimney remnants, refuse deposits associated with external kitchen</li> <li>Evidence of landscaping (such as stone or brick retaining walls, edging, hard surfaces indicating former pathways, stone flagging)</li> <li>Rubbish pits.</li> </ul>	Low to Moderate	<p><b>Low potential</b> for deeper subsurface structural remains within the laydown area (pink on Figure 10)</p> <p><b>Low</b> within the area identified as containing an intact resource associated with the second Exeter Farm house (green on Figure 10)</p>
		<ul style="list-style-type: none"> <li>Post holes associated with ephemeral structures such as coops, stalls, stables, stock yard fencing</li> <li>Indicators of natural flooring including areas of compacted earth or paving indicating the location of flooring, occupation or underfloor deposits, hard stands/working surfaces</li> <li>Evidence of landscaping (such as stone or brick retaining walls, garden soils, terracing)</li> <li>Structures typically located in rear yards such as privies, wells, cisterns or cesspits</li> <li>Rubbish pits</li> </ul>		<p><b>Low potential</b> for deeper subsurface structural remains within the laydown area (pink on Figure 10)</p> <p><b>Low</b> within the area identified as containing an intact resource associated with the second Exeter Farm house (green on Figure 10)</p>



Phase	Known structure/activity	Potential archaeological remains	2019 assessment	Updated assessment
<b>Phase 2: 19<sup>th</sup> C. Dairy (1840 – 1920)</b>	Second Exeter Farm House and grounds	<ul style="list-style-type: none"> <li>Evidence of former masonry buildings or structures (brick or stone footings, associated deposits)</li> <li>Occupation deposits (underfloor accumulations, yard scatters, rubbish pits)</li> <li>Paving associated with external yard divisions and landscaping</li> <li>Postholes associated with fence lines</li> <li>Beaten earth or paved surfaces, hearth, chimney remnants, refuse deposits associated with external kitchen</li> <li>Evidence of landscaping (such as stone or brick retaining walls, edging, hard surfaces indicating former pathways, stone flagging)</li> <li>Rubbish pits.</li> </ul>	Moderate	<b>High</b> – remains identified during testing (green on Figure 10)
<b>Phase 2: 19<sup>th</sup> C. Dairy (1840 – 1920) and Phase 3: 20<sup>th</sup> C. Dairy (1921 – 2006)</b>	Late nineteenth and early twentieth century farm buildings	<ul style="list-style-type: none"> <li>Posts and postholes associated with timber support posts, walls, pens and fences</li> <li>Evidence of former masonry buildings or structures (brick, stone or concrete footings, associated deposits)</li> <li>Paving associated with external yard divisions and landscaping</li> <li>Beaten earth or paved surfaces, yard surfaces</li> <li>Isolated artefact deposits</li> <li>Evidence of landscaping (such as stone or brick retaining walls, edging, hard surfaces indicating former pathways, stone flagging)</li> </ul>	<p>Nil for archaeological remains related to Phase 2</p> <p>Low for archaeological remains related to Phase 3</p>	<p><b>Low</b> for archaeological remains related to Phase 2</p> <p><b>High</b> for archaeological remains related to Phase 3 (remains identified during testing)</p>

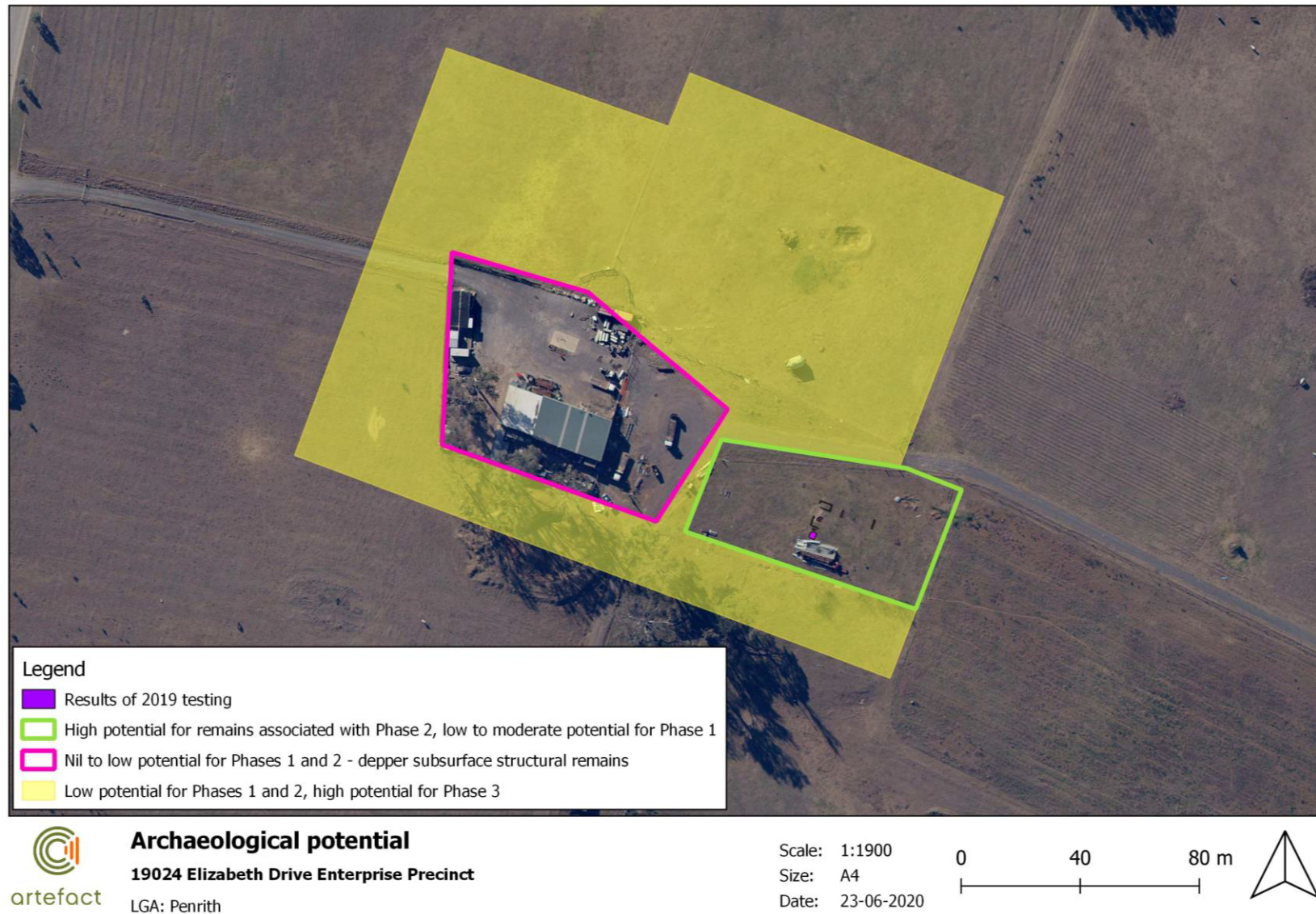


Figure 10: Revised assessment of archaeological potential with results of significant remains identified during testing

### 3.5 Assessment of archaeological significance

In 2009, Heritage NSW, Department of Premier and Cabinet (Heritage NSW, DPC; formerly NSW Heritage Division of the Office of Environment and Heritage) issued a set of guidelines titled *Assessing Significance for Historical Archaeological Sites and 'Relics'*. These guidelines call for broader consideration of multiple values of archaeological sites beyond their research potential. Under the guidelines, the significance of a potential archaeological site can then be assessed as being of local or State significance. If a potential relic is not considered to reach the local or State significance threshold, then it is not a relic under the Heritage Act.

The significance of the potential archaeological resource, defined as being all potential archaeological remains within a site as identified in Table 4, has been assessed using the NSW heritage assessment criteria and described in Table 5.

**Table 5: Significance assessment for archaeological remains of Exeter Farm**

Criteria	Discussion
<b>A - Historical Significance</b>  <i>An item is important in the course or pattern of the local area's cultural or natural history</i>	<p>Potential archaeological remains associated with Exeter Farm would have historical significance for its ability to provide information relating to the early European settlement and land use along Badgerys Creek from 1809 onwards. The farm was established and occupied by James Badgery and his family who raised cattle, thoroughbred horses, and cultivated crops. They were well known figures within the colony during this period and continue to be remembered amongst members of the wider Sydney region today. Governor Macquarie is known to have visited the farm in November 1810.</p> <p><b>Archaeological resources associated with James Badgerys Exeter Farm would be of local significance under this criterion, depending on the degree of intactness and legibility of the remains.</b></p>
<b>B - Associative Significance</b>  <i>An item has strong or special associations with the life or works of a person, or group of persons, of importance in the local area's cultural or natural history</i>	<p>Potential archaeological remains associated with Exeter Farm would be directly related to James Badgery and his family. The land was first granted to James by Colonel Patterson in 1809, and then again by Macquarie in 1812. Macquarie made a visit to the house in November 1810 with Gregory Blaxland. James Badgery would go on to become a prominent landowner and pastoralist in the colony, with the family expanding land-holdings to Spring Grove, Sutton Forest, and through the Roberts family to Exeter Farm. The watercourse 'Badgerys Creek' and adjoining suburb are both named in James Badgery's honour.</p> <p><b>Archaeological resources associated with James Badgerys Exeter Farm would be of local significance under this criterion, depending on the degree of intactness and legibility of the remains.</b></p>
<b>C – Aesthetic Significance</b>  <i>An item is important in demonstrating aesthetic characteristics and/or a high degree of creative or technical achievement in the local area</i>	<p>Although it is recognised that exposed <i>in situ</i> archaeological remains may have distinctive/attractive visual qualities, only rarely are these considered 'important in demonstrating aesthetic characteristics and/or a high degree of creative or technical achievement in NSW'.</p> <p><b>The potential archaeological resource associated with Exeter Farm is unlikely to meet the significance threshold for local or State significance under this criterion.</b></p>
<b>D – Social Significance</b>  <i>An item has strong or special association with a particular community or cultural group in the local area for social, cultural or spiritual reasons</i>	<p>Potential archaeological remains associated with Exeter Farm are likely to contain social significance amongst members of the surrounding community, as well as individuals or associations interested in the early colonial history of Penrith and NSW. It is also likely that potential remains would hold significance amongst descendants of the Badgery family and other individuals who lived on the property prior to 2006.</p> <p><b>If substantial and intact archaeological resources associated with Exeter Farm were found, they may have local significance under this criterion.</b></p>

Criteria	Discussion
<b>E – Research Potential</b>  <i>An item has potential to yield information that will contribute to an understanding of the local area's cultural or natural history</i>	<p>Potential archaeological remains associated with Exeter Farm would have the ability to yield information relating to early colonial construction techniques, agricultural practices and pastoral activities (and their evolution) across the site from 1809 to the early 20<sup>th</sup> century. They may also provide information regarding domestic activities that occurred at the property and the use of outbuildings that may not be included in available documentary resources. The known presence of convict workers on the site may, if artefactual remains related to convict occupation were identified, provide unique material insights into the lifeways of early indentured settlers in western Sydney.</p> <p>The site has the potential to contain intact artefact bearing deposits with the potential to yield significant information regarding the evolving agricultural and pastoral activities of an early homestead in western Sydney. The archaeological resource has potential to yield information relating to the early 19<sup>th</sup> century construction techniques, and the individuals that occupied that homestead and labour quarters. Intact artefact-bearing structures or deposits, such as wells, rubbish pits and underfloor deposits, may provide an archive of information that may not be able to be ascertained through other historical sources. As the precise location of many of the structures across the property from the early 19<sup>th</sup> century is unknown, it is possible that archaeological remains may provide some insight into the early layout of the estate.</p> <p><b>Archaeological resources associated with James Badgerys Exeter Farm would be of local to State significance under this criterion, depending on the degree of intactness and legibility of the remains. Remains which are demonstrably associated with indentured convict workers would be of State significance under this criterion.</b></p>
<b>F – Rarity</b>  <i>An item possesses uncommon, rare or endangered aspects of the local area's cultural or natural history</i>	<p>If intact archaeological remains associated with Exeter Farm were identified within the study area, they would be considered rare due to limited information available regarding land use and social activities at the property over time. In addition, few examples of intact colonial agricultural estates are known in the archaeological record and potential archaeological remains dating to early settlement as well as <i>in situ</i> evidence of early agricultural practices, if found to be substantially intact and extensive, would be of contributory value to this criterion at a State level.</p> <p><b>Archaeological resources associated with James Badgerys Exeter Farm would be of local to State significance under this criterion, depending on the degree of intactness and legibility of the remains.</b></p>
<b>G – Representative</b>  <i>An item is important in demonstrating the principal characteristics of a class of NSW's cultural or natural places of cultural or natural environments (or the cultural or natural history of the local area)</i>	<p>If intact archaeological remains associated with Exeter Farm were identified within the study area, they would represent physical evidence of pastoral and agricultural activities that took place within the first decades of European settlement in NSW. They would also represent principal characteristics of large farmsteads owned and operated by successful pastoralists in the early to mid-19<sup>th</sup> century including a homestead, outbuildings, gardens and paddocks.</p> <p><b>Archaeological resources associated with James Badgerys Exeter Farm would be of local to State significance under this criterion, depending on the degree of intactness and legibility of the remains.</b></p>

### 3.5.1 Archaeological significance of specific predicted remains

Due to the long use and re-use of the site as an active dairy and farm, the archaeological significance of potential remains in the study area are associated with specific historic phases, structures and land uses of the land. Table 6 provides a summary of the specific archaeological significance of predicted archaeological remains.



**Table 6: Assessment of archaeological significance for specific potential archaeological remains**

Phase	Specific remains	Arch. Potential	Discussion of significance in relation to specific archaeological remains	Significance
<b>Phase 1 Badgery Land Grant (1809 – 1839)</b>	Wattle and daub cottage (first house of Badgery Family 1809 – 1810/1812)	<b>Nil to Low</b>	The first residence of James Badgery and his family was attested as a small wattle and daub structure and archaeological remains relating to this former building may have the ability to demonstrate early vernacular rural architecture. Domestic artefact deposits have the potential to inform on early colonial lifeways and living practices. The precise location of this cottage is unknown and archaeological remains of this type are considered unlikely to be significantly preserved in the study area. Robust and legible remains associated with the structure and its inhabitants would be of local to State significance, depending on the degree of intactness of the deposit.	<b>Local to State</b>
	<u>Northern Location</u> for the First Exeter House, surrounds and gardens	<b>Low</b>	The first brick house constructed by the Badgery family, along with its outbuildings and gardens, has the potential to provide material information on an early homestead in the rural Cumberland Plain. Structural remains have the potential to inform early rural architectural techniques while artefactual deposits have the potential to provide information on past lifeways and living and working practices from early 19 <sup>th</sup> century Sydney.	<b>Local to State</b>
	<u>Southern location</u> for the First Exeter House, surrounds and gardens	<b>Low</b>		<b>Local to State</b>
	Early farming sheds, convict quarters and early farm infrastructure	<b>Nil to Low</b>	Early farming workshops, sheds and workers accommodation would likely have been timber buildings which may have the ability to demonstrate early vernacular rural architecture. Domestic and agricultural-associated artefact deposits have the potential to inform on early colonial lifeways and living practices. The precise location of these remains are unknown and archaeological deposits of this type are considered unlikely to be significantly preserved in the study area. Robust and legible remains associated with these structures, their use and their inhabitants would be of local to State significance, depending on the degree of intactness of deposits.	<b>Local to State</b>
<b>Phase 2: 19<sup>th</sup> C. Dairy (1840 – 1920)</b>	Second Exeter Farm House and grounds	<b>Moderate</b>	<p>This farm house was constructed at an unknown time in the (probably late) 19<sup>th</sup> century, was demolished in 2006 and was used as the primary residence for the property during that time. While twentieth century remains are unlikely to reach the threshold for local significance, it is possible that the wider gardens and outbuildings may be remnant or repurposed from an earlier historical phase.</p> <p>Depending on the intactness of remains and the degree of association with earlier phases of the use of the property, archaeological structures or deposits associated with the second Exeter Farm House may be of local significance.</p>	<b>Local</b>

Phase	Specific remains	Arch. Potential	Discussion of significance in relation to specific archaeological remains	Significance
<b>Phase 3: 20<sup>th</sup> C. Dairy (1921 – 2006)</b>	Mid to late twentieth century farm buildings	<b>Low</b>	Remains associated with twentieth century farm buildings would not reach the threshold for local significance.	<b>Nil</b>

### 3.5.2 Revised statement of archaeological significance

Archaeological remains associated with Phase 1 of the development of Exeter Farm may have historical, social, associative and representative significance at a State level through their association with prominent landowner and pastoralist James Badgery, his family and descendants. The success of the estate can be partially attributed to the use of convict labour, and archaeological evidence associated with convict housing or land-use would have significant research potential. If artefactual remains related to convict occupation were identified, provide unique material insights into the lifeways of early indentured settlers in western Sydney. Research and testing undertaken indicates that the potential for State significant relics to survive is low, and that the known and potential archaeological resource is associated with Phase 2 and 3.

Archaeological remains identified during testing are associated with Phase 2, the second Exeter Farm House. These were assessed as having local significance due to their integrity and historical association with earlier phases of use of the estate. The beehive cistern was assessed as having local significance for its association with water conservation efforts prior to the introduction of town water and sewer services, and the provision of water in rural areas. The artefact assemblage observed was dated to the twentieth century and the preliminary artefact analysis indicates that it has little potential to provide discrete information relating to nineteenth century domestic lifeways. The site has the potential to contain additional remains of local significance below the depths excavated during testing

## 4.0 ARCHAEOLOGICAL METHODOLOGY

### 4.1 Archaeological impact assessment

The proposal seeks approval for a Waste Disposal Facility at 1669 – 1732 Elizabeth Drive, Badgerys Creek, for the disposal of clean waste spoil material resulting from the construction of critical State Significant Infrastructure and building projects.

The proposed Waste Disposal Facility at 1669 – 1732 Elizabeth Drive, Badgerys Creek would include the following activities:

- The demolition and removal of existing rural structures;
- Termination, connection or augmentation of services and utilities to the site;
- Dewatering and decommissioning of existing farm dams;
- Clearing of existing vegetation on the subject site;
- The importation, placement and compaction of clean waste spoil material as defined within the Fill Management Protocol supporting this application;
- Ancillary onsite earthworks associated with the waste disposal facility; and
- Construction of stormwater, erosion and sediment control systems.

Ground disturbing works would entirely remove all areas of predicted significant archaeological potential. The proposal would result in a **major** impact to potential archaeological remains.

### 4.2 Proposed excavation methodology

The study area has potential to contain archaeological remains of State and local significance associated with all phases of the development of the study area. The following sections outline the archaeological management for each of these areas. Generally, these guiding precepts are followed:

- Manage archaeological resources in accordance with the relics provisions of the *Heritage Act 1977* with appropriate approval from Heritage, NSW DPC in the form of a Section 140 permit
- Investigate and record archaeological resources in accordance with archaeological best practice, NSW Heritage Council guidelines, the conditions of any permits issued under the Heritage Act and any requirements of Penrith City Council.

As the archaeological potential of the site varies, it is proposed that management of the potential archaeological resource include the following processes. The recommended archaeological management of the site is also illustrated in Figure 11.

- Heritage induction
- Salvage in areas with high potential to contain locally significant archaeological remains
- Monitoring and salvage (if required) in areas with high potential to contain less significant archaeological remains
- Unexpected finds procedure in areas of nil-low potential.

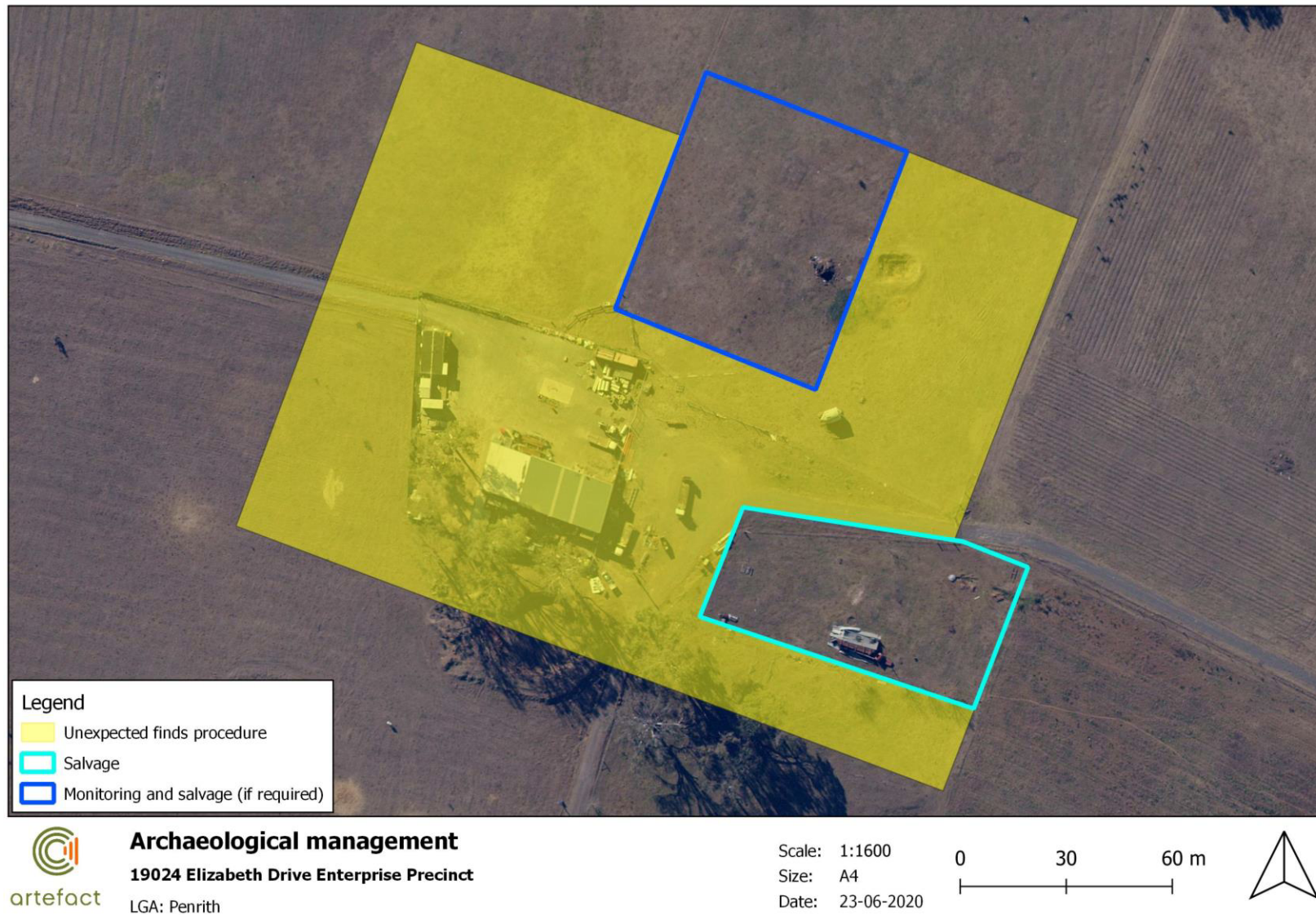


Figure 11: Archaeological management plan



#### 4.2.1 Heritage induction

Archaeological heritage would be included in the general project induction for all personnel. At a minimum, this would include an overview of the project's obligations, archaeological management and the role of the archaeological team.

#### 4.2.2 Monitoring

It is proposed that those areas identified as having limited potential to contain significant archaeological relics, but high potential to contain less significant evidence of former structures, be subject to archaeological monitoring and salvage (if required).

Archaeological monitoring is where an archaeologist is in attendance and supervising construction excavation work with potential to expose or impact archaeological remains. Monitoring is generally undertaken where there is low or low-moderate potential for significant archaeological remains and/or where minor excavation work is in an area of archaeological sensitivity.

If archaeological remains are identified during archaeological monitoring, they would be recorded and assessed to determine if further investigation is required. Localised stoppages in excavation work would be required to facilitate this process. Works would not recommence until the monitoring archaeologist has completed the recording and is satisfied that further investigation is not required.

If significant archaeological remains are identified, then further investigation (salvage) would be required prior to construction impacts. In this instance, the salvage excavation methodology outlined in Section 4.3.3 would be followed.

The monitoring program would be undertaken by experienced archaeologists, at the same time as the salvage excavation in the easternmost portion of the site and managed by a qualified Excavation Director.

In the event that unexpectedly intact state significant archaeological remains, or significant remains not identified in the archaeological assessment, are encountered during the monitoring program, Heritage NSW, DPC would be consulted.

#### 4.2.3 Salvage excavation

During testing in 2019 the former homestead site was identified as containing intact archaeological remains associated with the second Exeter Farmhouse. This area has the potential to contain artefact bearing deposits reaching the local significance threshold. This area also has some potential to contain remnant archaeological evidence of the first Exeter Farmhouse. It is therefore recommended that this area be subject to open area salvage excavation. Salvage excavation may also be undertaken where archaeological monitoring or the Unexpected Finds Procedure have identified that other areas are likely to have high potential to contain further archaeological remains.

In the event that intact State significant archaeological remains, or significant remains not identified in the archaeological assessment, are encountered during works, then further assessment and approvals from Heritage NSW, DPC may be required before works can proceed.

Open area salvage excavation is a method of archaeological investigation in which the full horizontal extent of a site is investigated and cleared, preserving the stratigraphic record. The methodology outlined below would be followed.

##### 4.2.3.1 Survey

The study area would be surveyed using a total station, or by hand surveying techniques, to create accurate squares in which to excavate. If using a total station, the site will be gridded to an

appropriate datum such as the Map Grid of Australia (MGA) in 5 x 5 m squares, which will be used to facilitate the detailed planning process.

#### **4.2.3.2 Clearing of vegetation and topsoil**

Where vegetation in the paddock can be slashed safely without affecting remnant structures in the ground, this will be the first site activity.

An excavator controlled by an experienced operator would remove sterile topsoil in shallow scrapes under direction of the Excavation or Site Director to the top of archaeological layers. The initial focus will be the backfilled test trenches excavated during the 2019 testing program, with excavation extended outwards from this point.

Each architectural feature will be cleared of overlying soil and grass and exposed as clearly as possible without the removal of deposits or intact fabric using a combination of machine and hand excavation. When intact soil deposits are encountered, hand excavation and recording would commence.

#### **4.2.3.3 Hand excavation**

Upon encountering archaeological material mechanical excavation would cease and excavation using hand tools would be undertaken by archaeologists trained in on-site historical excavation methods, under the guidance of the Excavation Director.

Project works would not proceed until the salvage excavation is completed and the Excavation Director has provided clearance.

#### **4.2.3.4 Deeper subsurface structural remains**

Should deeper subsurface structural remains be identified, such as wells, basements or cesspits, excavation of the deposits within would be controlled where possible. A probable cistern was identified during testing in 2019.

Features of this type may contain substantial amounts of backfilled material and artefactual remains. Artefacts find their way into these features through a number of actions, including deliberate placement and accidental loss. Structures of this type often contain a number of backfill or deposition events and are typically excavated using a combination of machine excavation and hand excavation at depth. Any material removed by excavator would be examined for artefacts by the archaeologists. Accumulated deposits, if intact and uncontaminated, may be useful for soil and pollen analysis.

If the well or cesspit is found to extend to a substantial depth complete excavation of the fill may not be possible due to Occupational Health and Safety requirements. In this situation fill would be removed to a safe depth to allow for the recording of the structure and collection of a representative stratified sample of any fill or artefacts. It is possible that further excavation or monitoring of particularly deep structures, such as wells, may be able to be undertaken by machine at a later date. As this would involve the removal of substantial amounts of soil, the archaeological program would need to have been finalised in the immediate vicinity to avoid disturbance to any archaeological relics or deposits.

#### **4.2.3.5 Underfloor and occupation deposits**

Underfloor and occupation deposits may be present within internal spaces below the former residence, or accumulated below verandah spaces. Underfloor deposits may provide particularly useful archaeological information in the context of domestic or commercial spaces.

Intact underfloor deposits would be excavated in a grid system, either 50 centimetre or 1 metre depending on extent of deposit. Excavation would be by context if stratigraphic layers are identifiable. If the deposit is homogenised, excavation would proceed in 5 or 10 centimetre spits. Excavated

material would be wet or dry sieved. The range and percentage of archaeological material collected would be in accordance with a sieving strategy developed by the Excavation Director.

This type of investigation can recover data that may be utilised in the analyses of interior spaces and in the identification of activities within those spaces.

#### 4.2.4 Unexpected finds procedure

It is not anticipated that works would encounter a significant or substantial historical archaeological resource in those areas with nil to low potential to contain archaeological resources (as illustrated in Figure 11). Therefore, excavation works in these areas can commence under an Unexpected Finds Procedure. If unanticipated archaeological items are identified during excavation in those areas not subject to archaeological monitoring or salvage excavation, the following procedure should be followed:

- Cease all project activity in the vicinity of the find
- Leave the material in place and protect it from harm
- Erect a 10 metre exclusion zone using temporary fencing and/or signage
- Contact a suitably qualified archaeologist to provide an assessment of the find
- Should the assessment identify that the archaeological remains have significance, further assessment and approvals from Heritage NSW, DPC may be required before works can proceed.

During the works, it is recommended that environmental management and construction teams are to be made aware of the nature of the potential archaeological resource outlined in this assessment by undertaking the following:

- Incorporation of the Unexpected Finds Procedure into any construction management plans
- Incorporation of a heritage induction into the general site induction, outlining the history and heritage significance of the potential archaeological remains, the type of remains that may be found, and the procedure to be followed in the event of an unexpected find (see Section 4.2.1).

#### 4.3 Recording methodology

The archaeological archival recording would be undertaken in accordance with best practice and Heritage NSW, DPC guidelines. The level of recording detail would be in accordance with the significance of the archaeological remains. State significant remains would require more detailed recording, in particular photographic, survey, and photogrammetry. The recording methodology includes the following:

- A site datum would be established
- A standard context recording system would be employed. The locations, dimensions in plan and characteristics of all archaeological features and deposits would be recorded on a sequentially numbered register
- Scaled section drawings where appropriate.

- Scaled trench plans would be drawn showing the location of archaeological deposits revealed by excavation
- Photographic recording of all phases of the work on site would be undertaken
- Digital photography, in RAW format, using photographic scales where appropriate. A photographic record of all phases of the work on site would be undertaken.

#### 4.4 Artefacts

Artefacts are likely to be uncovered during archaeological investigations. Artefacts from secure or *in situ* contexts would be collected and recorded. Should relics made from hazardous material be encountered they will be recorded but not collected.

Should diagnostic or significant artefacts be present within the fill layers (out-of-context), a sample would be retained as part of the archaeological record. Any discarded items will be recorded on context or discard sheets (in the case of sieving).

Examples of structural material (building fabric) will be sampled where required and may include brick, mortar, stone, timber and plaster.

An artefact retention policy for the archaeological program is shown in Figure 12.

Retained artefacts would be cleaned processed, catalogued and analysed by an archaeologist experienced in historical artefact assemblages. Artefact analysis would include production of a database in accordance with best practice archaeological data recording. The resulting information would be included in the final excavation report.

Artefacts recovered from the archaeological investigations would be the property of the applicant and would be securely stored by them following completion of post-excavation analysis. Where possible artefacts should be incorporated into interpretive displays.



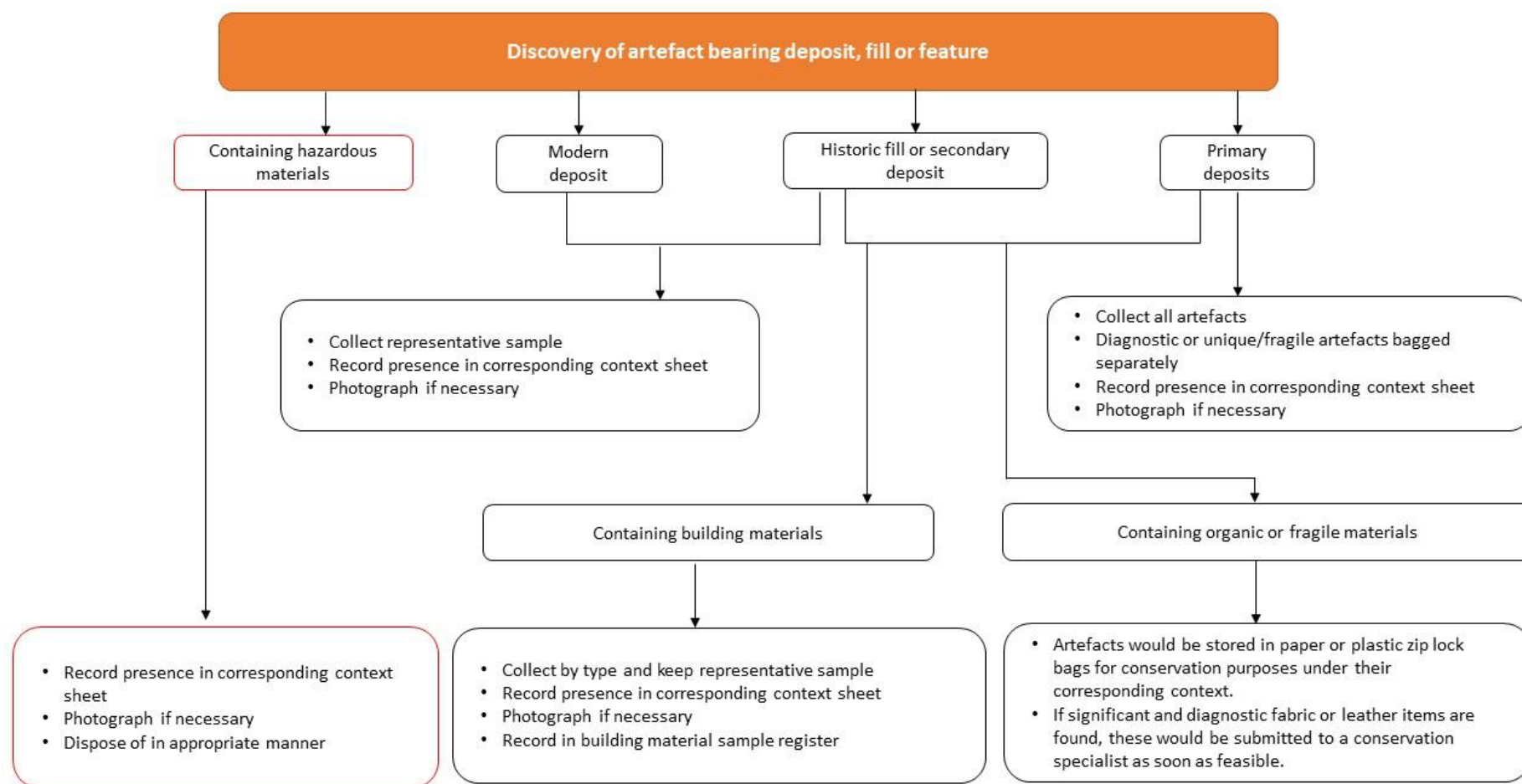


Figure 12. Artefact retention policy for the Elizabeth Enterprise precinct

## 4.5 Preliminary results reporting

Preparation of a preliminary 500 word archaeological results report is a typical condition of a s140 excavation permit. This report would be prepared following completion of archaeological investigation stages.

The report would outline the main archaeological findings, post-excavation and analysis requirements, and could also include any further archaeological investigation requirements for a particular construction task.

## 4.6 Post-excavation analysis and final report

Following the completion of on-site archaeological works, post-excavation analysis of the findings would be undertaken. An archaeological excavation report will be produced that will comprehensively describe and interpret the findings of the investigation within the context of the research design and research questions.

The document would be issued as a single report incorporating the findings of the archaeological program. This would include artefact analysis, environmental and building material sample analysis, stratigraphic reporting, production of illustrations and detailed site plans. The archaeological remains would be interpreted, and research questions addressed. The report would include a reassessment of archaeological significance based on the investigation results and outline any future statutory requirements.

The report would be prepared in accordance with any requirements condition in the s140 excavation permit.

## 4.7 Management of Aboriginal objects

The 2020 Aboriginal Archaeological Test Excavation Report<sup>20</sup> recommends an AHIP be obtained for salvage within the study area. The AHIP application process is occurring concurrently with the s140 application process.

If Aboriginal objects are located during archaeological monitoring and salvage, works would cease, and the find would not be impacted. The find would be recorded and registered in accordance with the requirements of the Code of Practice.

Although there is generally low potential that the proposed salvage area to contain contact archaeology in the form of worked glass artefacts, it is recommended that Registered Aboriginal Parties be included in the historical excavation process.

## 4.8 Management of state significant archaeological 'relics'

If substantial remains likely to be considered State significant or associated with Phase 1 are identified, excavations would cease and Heritage NSW, DPC would be notified.

The exposed remains would be surveyed, recorded, protected and left *in situ*, waiting advice from Heritage NSW, DPC. It is noted that additional assessment and approvals may be required to remove state significant archaeological remains.

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<sup>20</sup> Artefact Heritage, *Elizabeth Enterprise Precinct Stage 1, DRAFT Aboriginal Test Excavation Report* for Projects Pty Ltd, April 2020

## 4.9 Archaeological team

The archaeological team from Artefact Heritage would comprise:

- Excavation Director – Jenny Winnett
- Site Directors/Project Management – Duncan Jones and Jayden van Beek
- Archaeological Assistants – Josh Symons, Alyce Haast, Isabel Wheeler and other staff and sub-consultants as necessary
- Archaeological Surveyor - Guy Hazell
- Environmental sampling – Sam Player and Dr Mike McPhail
- Artefact analysis – Michael Lever and Jenny Winnett.

## 5.0 ARCHAEOLOGICAL RESEARCH DESIGN

### 5.1 Introduction

An archaeological research design is a theoretical framework designed to support archaeological field investigations with the aim of extracting information regarding the development and function of the site, whilst also placing that information within a wider research context. The following research design is based on the outcomes of archival and documentary research as well as the assessment of archaeological potential and significance. It aims to develop questions that will contribute to current and relevant knowledge about the place, a historic theme and individuals that cannot be sourced from documentary evidence.

### 5.2 Historic themes

Historical themes are a way of describing important processes or activities which have significantly contributed to Australian history at a national and state level. The Heritage Council of NSW has prepared a list of state historic themes relevant to the demographic, economic and cultural development of the state. The use of these themes provides historical context to allow archaeological items to be understood in a wider historical context. Historical themes relevant to the subject site are summarised in Table 7.

**Table 7: Historic themes for archaeological resources in the study area**

Australian Theme	NSW Theme	Discussion
Peopling Australia	Convict	James Badgery was known to have convict workers appointed to his property to assist in land clearing and developing his cattle and horse farm. These convicts were attested to have their own accommodation on the property. Archaeological remains related to convict domestic and agricultural practices may therefore be present which could address this historic theme.
Developing local, regional and national economies	Agriculture	Badgery's Exeter Farm was developed primarily as a pastoral property however gardens and crops were also grown there. Archaeological remains related to the operation of this farm would address this historic theme.
Developing local, regional and national economies	Industry	A blacksmith's workshop was attested in historical documents as being present on the site in the 1820s. Due to the relative remoteness of the property during this time, blacksmithing and ironmongery would have been required to be produced at the property for the operation of the farm, particularly for horse-rearing and racing. Any intact archaeological remains related to this former workshop be identified they would address this historic theme.
Developing local, regional and national economies	Pastoralism	Badgery's Exeter Farm was developed for grazing and dairying from soon after its establishment, and a number of sheds, pens and stables were constructed for the operation of the farm. Archaeological remains associated with these structures would address this historic theme.
Developing Australia's cultural life	Domestic Life	Badgery's Exeter Farm consisted of the homestead for the landowning Badgery family but was also the location where indentured convict and other workers lived while they worked on the property. Archaeological remains associated with their accommodation, subsistence, cooking, clothing and toiletries may be present which would address this historic theme.



## 5.3 Research questions

The significance of a potential archaeological resource lies in its ability to respond to research agendas in a meaningful way, rather than duplicating known information, or information that might be more readily available from other sources such as documentary records or oral history. Therefore, the aim of the following questions is to ensure that the proposed archaeological investigation is focused on genuine research needs.

These research questions are predominantly focused on historical Phase 2. The Statement of Significance in Section 3.5.2, in combination with the NSW Historic Themes in Section 5.2,<sup>21</sup> have provided the basis for the research design framework. Additional research questions may be added if the archaeological resource allows for further, or more in-depth, investigation.

The archaeological resource within the study area has the potential to contribute to research areas such as:

- Consumer behaviour and the household
- Evolution of a working rural estate throughout the 19<sup>th</sup> century
- Rural construction methods
- Comparative analysis of archaeological results to similar agricultural estates in western Sydney.

Additional research questions may be posed (and existing questions modified) as the archaeological excavation progresses and the extent and condition of the archaeological resource is revealed.

### 5.3.1 Consumer behaviour and the household

Archaeological testing has identified that evidence of the second farmhouse is likely to consist of additional stone and brick footings, postholes associated with timber structures and outhouses, and potentially deposits containing evidence of occupation including underfloor deposits and yard scatters. The site may contain evidence of cottage gardens, the layout and use of yard areas, and artefact scatters and refuse pits associated with former residents. A probable cistern was also identified. Excavation of the cisterns, and any wells if they are present, has the potential to provide insight into discard practises, and determine the ways in which the household was disposing of its waste.

Material culture studies is a research area that is utilised by archaeologists to better understand the ways that gender, social standing, ethnicity, and religion are expressed through artefactual remains. Our knowledge of the day-to-day life of lower and working-class individuals is typically lacking in the historic written record. Archaeological investigation has the ability to identify the 'lifeways' of these individuals in a meaningful way.

Evidence of domestic occupation and identity would relate to the NSW Historic Theme of 'Domestic life', 'Accommodation' and 'Utilities'.

Potential research questions relating to the lifeways of these individuals include the following:

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<sup>21</sup> Heritage Council 2001

- Do any intact under floor deposits provide useful spatial information, identify discrete activity areas or provide spatial data on the range of tasks undertaken within the cottages over time? Is there evidence of 'working' versus 'living' areas of the farm house?
- Is there evidence that the residents were engaged in recreational activities? (gaming, smoking, sewing, etc)
- What food were the residents of the cottages consuming? Is there evidence of the cooking methods, brand or food preferences?
- What evidence is there of gardens, and the layout and use of the yard areas?
- Does the archaeological resource provide insight into activities split along gender or age lines? Is there evidence for the presence of women and children?
- Does the archaeological resource provide evidence of social standing and status? Is there evidence that former inhabitants of the site displayed their social standing or ethnicity through items of personal adornment or preferences for certain consumables?
- Can artefactual evidence be directly associated with the Badgery family, their descendants or their employees?

### 5.3.2 Evolution of a rural estate throughout the 19<sup>th</sup> century

The archaeological resource has the potential to provide insight into the development of the estate throughout the 19th and early 20th centuries.

Previous archaeological studies involving pastoral outbuildings in NSW have tended to predominantly focus on the archaeological remains of living quarters such as cottages. The main reason for this is that living spaces are generally more likely to be found in association with concentrated deposits of archaeological materials in comparison to agricultural structures such as sheds, which past studies have suggested can be difficult to interpret without more substantial archaeological remains.

However, pastoral outbuildings have the potential to offer insight into the agricultural practices of the site, which played an important role in the economy of the wider region.

- Does the archaeological resource support the documentary evidence and its analysis or can it provide information that is not available elsewhere?
- Due to the long use and re-use of the site as a rural dairy, to what extent can archaeological remains (structural or artefactual) be individuated clearly between time periods and phases of use? Were early nineteenth century structures maintained on the property and utilised into the late nineteenth or twentieth centuries? What evidence of use and renovation of structures is identifiable in the study area? Does the continued use of structures and areas on site reduce our ability to discern earlier uses of these structures and areas?
- Is a former western annex to the second Exeter Farm House, demolished between 1955 and 1961, the site of the former first Badgery Exeter Farm House? If remains of this former building are identified and they are not the first Exeter Farm House, what was this building and when was it constructed?

- If the location of the first Exeter Farm House is identified, how does this improve our spatial understanding of other attested structures at the property, including convict worker's accommodation, blacksmith's workshops and farm sheds?
- Can the homestead be reconstructed using archaeological evidence?
- Do structural remains associated with this phase of activity show any evidence of hearths, chimneys or manufacturing furnaces (such as a blacksmith's workshop), which may provide information on domestic and agricultural working practices from that era?
- When was the second Exeter Farm House constructed? Can structural remains and contextual information provide a clear date or date range for the original construction of the building?
- Were landscaped gardens present in the vicinity of the second Exeter Farm house? Is there preserved archaeological evidence for these gardens? Are these remains discernible from earlier landscaping and garden features?
- Were stables and outbuildings of the second Exeter Farm house constructed before the second Exeter Farm house was built, showing continuity of use?

### 5.3.3 Construction methods

The study area has been in use as an agricultural estate up to the present day. The archaeological investigation has the potential to identify the extent to which earlier buildings been re-used or modified.

- Does evidence of earlier phases of the farm house survive, and can phases of construction be ascertained from the archaeological record?
- Were the materials used in the construction of the buildings on the site locally manufactured and sourced, or were they imported from elsewhere? Do the construction materials provide some insight into the ways in which local materials were adapted to suit local conditions?
- Does fabric survive that could provide information on the layout of the farm house?
- If evidence of outbuildings or convict accommodation is identified, have they been constructed of different materials that may help differentiate archaeological remains of these buildings from the main residence?

### 5.3.4 Comparative studies

- How do the archaeological remains compare to those obtained from previous estates developed for use as Soldier settlements, such as Oakdale South?
- Can the archaeological resource provide insight into the layout of the former estate? Is this similar to extant estates of the same period i.e. Bella Vista Farm?

## 6.0 CONCLUSIONS AND RECOMMENDATIONS

### 6.1 Conclusions

Based on the results of historical research and archaeological testing, this ARD has identified the following:

- James Badgery received a land grant, which included the current study area, in 1809. Badgery established a working farm and dairy with the assistance of government-allotted convict labour
- Badgery built his first substantial house on the property between 1810 and 1812, a brick homestead called Exeter Farm. Two potential locations for this homestead were identified from historical research. The location was unable to be verified during a site visit with an individual involved in the 1973 excavation of the first Exeter house and archaeological test excavation in 2020
- Later landowners constructed a second Exeter Farm homestead, probably in the late nineteenth century, which became the primary residence of the property. This building was demolished in 2006.
- Historical test excavation completed in 2020 identified intact archaeology associated with the second Exeter house and remains of a later 20<sup>th</sup> century farm building
- Proposed ground disturbing works would entirely remove all areas of predicted significant archaeological potential. The proposal would result in a **major** impact to potential archaeological remains.

### 6.2 Recommendations

- A program of archaeological monitoring and salvage should be carried out within the study area prior to subsurface excavations. This program would include both monitoring and targeted salvage excavations, focused on intact artefact bearing deposits of local significance. This document accompanies an application for a s140 excavation permit from NSW Heritage Division. The archaeological salvage program would be undertaken within the requirements of this permit.
- If archaeological remains of State significance, or locally significant remains not identified in the SoHI or this ARD, are unexpectedly identified during the archaeological salvage program, works in the affected area would cease and Heritage NSW, DPC would be notified. Additional assessment and further approval may be required prior to the recommencement of excavation
- Should State significant remains associated with early nineteenth century convict accommodation and workshops be identified significantly intact during test excavation work, opportunities for retaining these remains *in situ* and redesigning works to avoid impacts should be considered.



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# Elizabeth Enterprise Precinct, Stage 1

Aboriginal Cultural Heritage  
Assessment Report

June 2020

Report to Mirvac Projects Pty Ltd.



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## EXECUTIVE SUMMARY

Mirvac Projects Pty Ltd (Mirvac) are proposing to develop a Waste Disposal Facility at 1669 – 1732 Elizabeth Drive, Badgerys Creek, for the disposal of clean waste spoil material resulting from the construction of nearby Critical State Significant Infrastructure (CSSI) and building projects. The proponent is seeking approval for the proposed works through a Development Application (DA) to Penrith City Council.

Artefact Heritage (Artefact) were engaged by Mirvac to prepare an Aboriginal Archaeological Survey Report (ASR) which identified Aboriginal artefact sites and areas of Potential Archaeological Deposit (PAD) at the project site. Artefact have prepared this Aboriginal Cultural Heritage Assessment Report (ACHAR) to assess potential impacts to Aboriginal sites and support an application for an Aboriginal Heritage Impact Permit (AHIP) to the Department of Planning, Industry and Environment (DPIE) for the proposed works.

This ACHAR is supported by an appended Archaeological Test Excavation Report (ATER) and the previously prepared ASR. These reports outline the results of previous survey and test excavations in the area and outline the archaeological values of the study area.

Artefact have prepared this ACHAR in accordance with the *Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW* (the ACHAR Guide) (Office of Environment and Heritage [OEH] 2011) and the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (the Consultation Requirements) (Department of Climate Change & Water [DECCW] 2010b).

It was found that:

- A total of eight Aboriginal sites have been identified within the study area, comprised of one subsurface artefact site, six surface artefact sites and one area of PAD
  - Elizabeth Precinct Artefact Scatter 02 (EP AS 02 - AHIMS ID 45-5-5236) has been assessed as demonstrating high archaeological significance
  - Elizabeth Precinct Isolated Find 01 (EP IF 01 - AHIMS ID 45-5-5232) and Elizabeth Precinct Isolated Find 02 (EP IF 02 - AHIMS ID 45-5-5231) have been identified as demonstrating moderate archaeological significance
  - Elizabeth Precinct Artefact Scatter 01 (EP AS 01 - AHIMS ID 45-5-5233), Elizabeth Precinct Isolated Find 03 (EP IF 03 - AHIMS ID 45-5-5230), Elizabeth Precinct Isolated Find 04 (EP IF 04 - AHIMS ID 45-5-5331) and Elizabeth Precinct Isolated Find 05 (EP IF 05 - AHIMS ID 45-5-5330) have been identified as demonstrating low archaeological significance
  - Elizabeth Precinct PAD 03 (EP PAD 03 - AHIMS ID 45-5-5234) is outside of the impact area and no archaeological test excavation was conducted at this site for this assessment. This area of PAD is considered to contain unknown significance
- The proposed works will impact the following identified sites:
  - EP AS 01
  - EP AS 02
  - EP IF 01
  - EP IF 02

- EP IF 03
- EP IF 04
- EP IF 05
- One site, Elizabeth Drive AFT 1 (ED AFT 1) (AHIMS ID 45-5-5259) is located 2 metres to the south of the southern boundary of the study area. This site will not be impacted by the proposed works.

The following recommendations are made:

- An AHIP application to impact Aboriginal sites must be lodged with DPIE for the proposed development. No works that impact the ground surface should be undertaken within the study area until an AHIP has been issued.
- It is recommended that salvage excavation of EP AS 02 is undertaken as a condition of the AHIP in order to mitigate impacts. Salvage excavation should be undertaken in accordance with the salvage methodology outlined in Section 10.0 of the ACHAR.
- The following surface artefact sites should be subject to artefact collection prior to the commencement of ground disturbing works:
  - EP AS 01
  - EP IF 01
  - EP IF 02
  - EP IF 03
  - EP IF 04
  - EP IF 05
- While no works would occur in the vicinity of EP PAD 03, an exclusion zone should be established around the outer perimeter of the area of PAD to prevent inadvertent impact.
- The location ED AFT 1 should be recorded on construction drawings and the location marked during construction to ensure that it is not subject to impacts during construction works. An exclusion zone should be established around this site within the property boundary prior to the commencement of works.
- Following completion of archaeological investigation, analysis and reporting, artefacts retrieved from the salvage excavation, test excavation and surface collection should be reburied in accordance with the reburial methodology provided in the Section 10.6 of the ACHAR.

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## 1.0 INTRODUCTION

### 1.1 Background

Mirvac are proposing to develop a Waste Disposal Facility at 1669 – 1732 Elizabeth Drive, Badgerys Creek, for the disposal of clean waste spoil material resulting from the construction of nearby CSSI and building projects. The proponent is seeking approval for the proposed works through a DA to Penrith City Council.

Artefact were engaged by Mirvac to prepare an Aboriginal ASR which identified Aboriginal artefact sites and areas of PAD at the project site. Artefact have prepared this ACHAR report to assess potential impacts to Aboriginal sites, and to support an application for an AHIP to the DPIE for the proposed works.

This ACHAR is supported by an appended ATER and the previously prepared ASR. These reports outline the results of previous survey and test excavations in the area and outline the archaeological values of the study area.

Artefact has prepared this ACHAR in accordance with the ACHAR Guide and the Consultation Requirements.

### 1.2 Background to this report

In 2019, Artefact was engaged by Mirvac to prepare an ASR of Stage 1 of the Elizabeth Enterprise Precinct. The ASR report identified three areas of archaeological potential study area which included crest, spur and terrace landforms (Elizabeth Precinct PAD 01 (EP PAD 01), Elizabeth Precinct PAD 02 (EP PAD 02) and EP PAD 03 respectively) within the project area. The assessment also identified four surface artefact sites.

In accordance with the *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales* (the Code of Practice) (DECCW 2010a), archaeological test excavations were conducted within portions of the study area which would be subject to proposed impacts (EP PAD 01 and EP PAD 02) in order to determine the presence and significance of subsurface archaeological material across the proposed impact area.

The ATER identified that an AHIP would be required prior to any impacts occurring within the study area. The ATER also identified that further archaeological investigation, in the form of salvage excavation, should be conducted following issuance of the AHIP by DPIE. This ACHAR outlines a summary of background findings and test excavation results and provides a detailed overview of the proposed extent and recommended conditions of the AHIP, including the proposed methodology for archaeological salvage excavation.

### 1.3 Study area

The study area is comprised of 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP 860456), a 54.41 hectare (ha) rural property as shown in Figure 1.

The study area is within the Penrith Local Government Area (LGA) and the Western Sydney Priority Growth Area. The study area is located within the boundaries of Deerubbin Local Aboriginal Land Council (LALC) and within the parish of Claremont within the county of Cumberland.

## 1.4 Objectives of this report

The objectives of this ACHAR are to:

- Assess the Aboriginal cultural heritage values of the study area, including archaeological and community cultural values, and the significance of identified values
- Identify Aboriginal cultural heritage values that may be impacted by the works including consideration of cumulative impacts, and measures to avoid significant impacts
- Ensure appropriate Aboriginal community consultation in the assessment process
- Identify and describe any recommended further investigations, mitigation and management measures required.

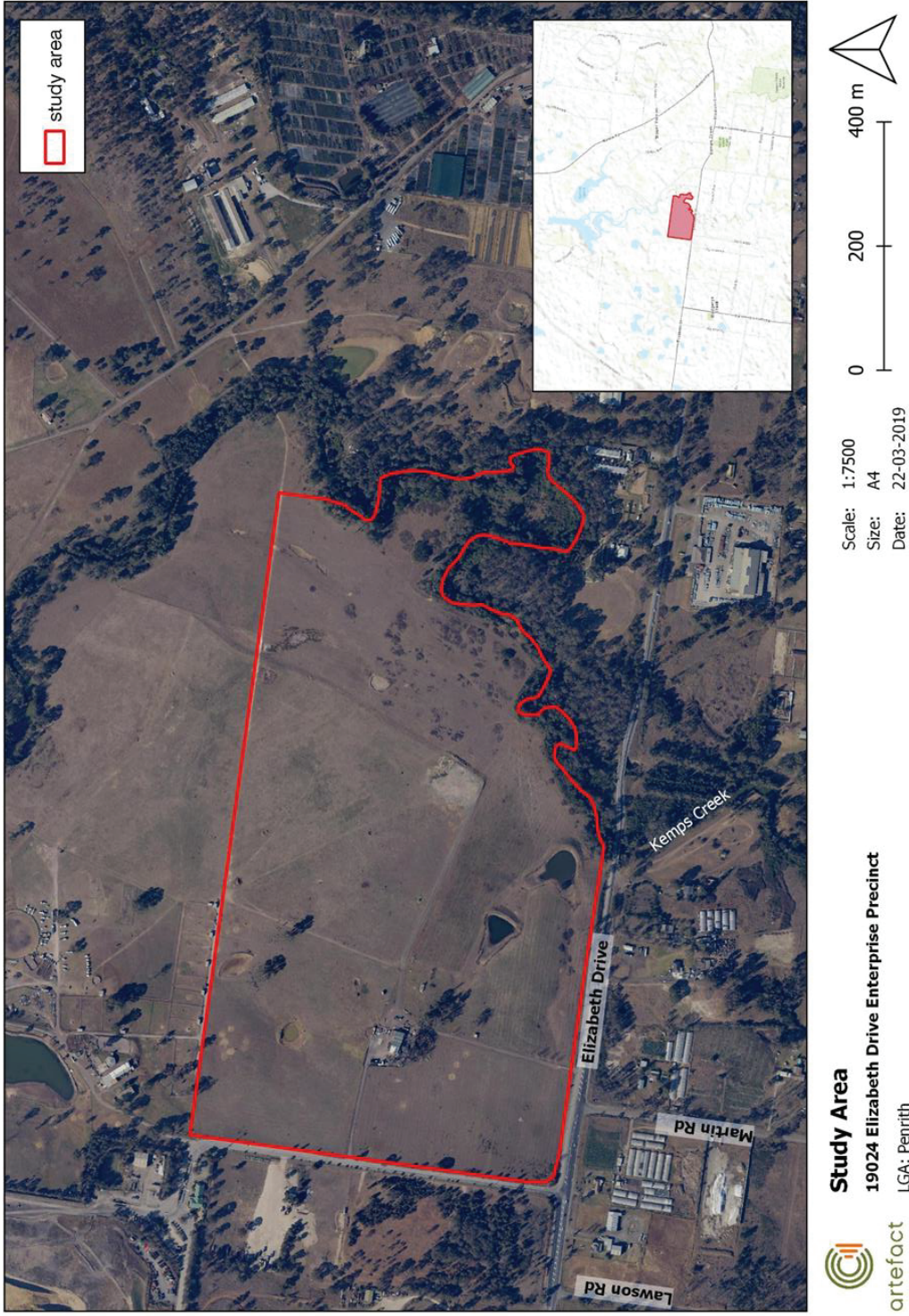
This report includes:

- A description of the scope of the project and the extent of the study area
- A description of Aboriginal community involvement and consultation with the Registered Aboriginal Parties (RAPs)
- A significance assessment of the study area, including a description of identified cultural and archaeological values
- A description of the statutory requirements for the protection of Aboriginal heritage
- An impact assessment for recorded Aboriginal sites and areas of archaeological potential
- Provision of measures to avoid, minimise, and if necessary, offset the predicted impacts on Aboriginal heritage values
- A description of the proposed extent and recommended mitigation measures for at least one AHIP application to DPIE.

## 1.5 Authorship and acknowledgements

This report was prepared by Alyce Haast (Senior Heritage Consultant, Artefact) with management input and review from Duncan Jones (Principal, Artefact).

Figure 1: Study area



## 2.0 STATUTORY REQUIREMENTS

There are several items of legislation, heritage registers and heritage management guidelines that are relevant to the project. This section provides a summary of these Acts and the potential implications for the project.

### 2.1 NSW National Parks and Wildlife Act 1974

The *National Parks and Wildlife Act 1974* (NPW Act) provides statutory protection to all Aboriginal places and objects. An Aboriginal Place is declared by the Minister, under Section 84 of the NPW Act in recognition of its special significance with respect to Aboriginal culture. Under Section 86 of the NPW Act Aboriginal objects and Aboriginal places are protected. An Aboriginal object is defined as:

---

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

---

The protection provided to Aboriginal objects applies irrespective of the level of their significance or issues of land tenure. However, areas are only gazetted as Aboriginal places if the Minister is satisfied that sufficient evidence exists to demonstrate that the location was and/or is of special significance to Aboriginal culture.

There are no gazetted Aboriginal places in the study area. All Aboriginal objects, whether recorded or not are protected under the NPW Act.

In order to undertake a proposed activity which is likely to involve harm to an Aboriginal Place or object, it is necessary to apply to DPIE for an AHIP. AHIPs are issued by DPIE under Section 90 of the NPW Act, and permit harm to certain Aboriginal objects or Aboriginal Places.

#### 2.1.1 National Parks and Wildlife Regulation 2019

Under the authority of the NPW Act, The National Parks and Wildlife Regulation 2019 provides regulations for Aboriginal heritage assessment and consultation with registered Aboriginal parties.

Part 5 (Division 2) of the National Parks and Wildlife Regulation 2019 sets out the requirements of a due diligence assessment process and provides requirements for more detailed assessment and consultation with registered Aboriginal parties for activities that may result in harm to Aboriginal objects. This includes:

- Clause 60 – consultation process to be undertaken before application for Aboriginal heritage impact permit
- Clause 61 – application for Aboriginal heritage impact permit to be accompanied by cultural heritage assessment report.

In order to comply with Clause 60 and 61 of the National Parks and Wildlife Regulation 2019, preparation of the ACHAR and consultation with registered Aboriginal parties must be in accordance with the following guidelines:



- The Code of Practice
- The ACHAR Guide
- The Consultation Requirements

Assessment and consultation undertaken in accordance with Part 5 of the National Parks and Wildlife Regulation 2019 and associated guidelines would result in adequate supporting documentation to support an application(s) for approval for works that may result in harm to Aboriginal objects.

## 2.2 NSW *Environmental Planning and Assessment Act 1979*

The *Environmental Planning and Assessment Act 1979* (EP&A Act) provides planning controls and requirements for environmental assessment in the development approval process. The EP&A Act consists of three main parts of direct relevance to Aboriginal cultural heritage; Part 3 which governs the preparation of planning instruments, Part 4 which relates to development assessment processes for local government (consent) authorities, and Part 5 which relates to activity approvals by governing (determining) authorities.

### 2.2.1 Local Environment Plans

Local Environmental Plans (LEPs) are prepared by councils in accordance with the EP&A Act to guide planning decisions for LGAs.

The aim of LEPs in relation to heritage is to conserve the heritage significance of heritage items and heritage conservation areas, including associated fabric, settings, views and archaeological sites.

Schedule 5 of each LEP lists items of heritage significance within each LGA. If agreement is reached with the Aboriginal community, items or Aboriginal places of heritage significance are also listed within this schedule.

## 2.3 NSW *Aboriginal Land Rights Act 1983*

The *Aboriginal Land Rights Act 1983* is administered by the NSW Department of Human Services -Aboriginal Affairs. This Act established Aboriginal Land Councils (at State and local levels). These bodies have a statutory obligation under the Act to:

- Take action to protect the culture and heritage of Aboriginal persons in the council's area, subject to any other law
- Promote awareness in the community of the culture and heritage of Aboriginal persons in the council's area.

The study area is located within the Deerubbin LALC boundaries.

## 2.4 NSW *Native Title Act 1994*

The *Native Title Act 1994* was introduced to work in conjunction with the Commonwealth Native Title Act. Native Title claims, registers and Indigenous Land Use Agreements are administered under the Act.



No Native Title Claims within the study area were identified on the National Native Title Tribunal *Native Title Vision* mapping service.<sup>1</sup>

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<sup>1</sup> Accessed on 14 April 2020 from  
<https://nntt.maps.arcgis.com/apps/webappviewer/index.html?id=b221c006ae5d4cabaa1e18099bc11bb9>

## 3.0 ABORIGINAL COMMUNITY CONSULTATION

Aboriginal community consultation has been conducted in accordance with the Consultation Requirements. A consultation log has been maintained which details all correspondence with the RAPs for the project (Appendix 1).

### 3.1 Identification of stakeholders and registrations of interest

In accordance with the Consultation Requirements, Artefact have corresponded with the following organisations by letter seeking to identify Aboriginal stakeholder groups or people who may wish to be consulted about the project:

- OEH, Parramatta (now DPIE)
- Deerubbin LALC
- The Registrar, Aboriginal Land Rights Act 1983
- National Native Title Tribunal
- NTSCORP
- Penrith City Council
- Greater Sydney Local Land Services

Letters were sent to all Aboriginal persons or organisations identified through responses from the agencies listed above. The letters provided details about the location and nature of the proposal, as well as an invitation to register as an Aboriginal stakeholder.

An advertisement was placed in the Liverpool leader and Koori Mail in the 24 April 2019 edition. The advertisement invited all Aboriginal persons and organisations who hold cultural knowledge relevant to determining the significance of Aboriginal objects and places in the study area to register their interest.

The following stakeholders registered their interest in the project:

- |                                                  |                                         |
|--------------------------------------------------|-----------------------------------------|
| • Amanda Hickey Cultural Services                | • Barking Owl Aboriginal Corporation    |
| • Murra Bidgee Mullangari Aboriginal Corporation | • Widescope                             |
| • Butucarbin Aboriginal Corporation              | • BH Heritage Consultants               |
| • Didge Ngunawal Clan                            | • Cubbitch Barta Native Title Claimants |
| • Darug Aboriginal Land Care                     | • Barraby Cultural Servies              |
| • Merrigarn                                      | • Yurrandaali Cultural Servies          |
| • Yulay Cultural Services                        | • Yulay Cultural Services               |
| • Woronora Plateau Gundagara Elders Council      | • Kawul Cultural Services               |
| • Darug Custodian Aboriginal Corporation         | • Wurrumay Cultural Services            |
| • A1 Indigenous Services                         | • Goobah                                |
| • Widescope                                      | • Cullendulla                           |
| • Darug Land Observations                        | • Biamanga                              |
|                                                  | • Murramarang                           |

- Darug Aboriginal Cultural Heritage Assessments
- Deerubbin LALC

In accordance with Step 4.1.6, a list of registered Aboriginal parties, a copy of the newspaper advertisement and a copy of the invitation to register were forwarded to DPIE and Deerubbin LALC on 30 May 2019.

### 3.2 Review of draft ACHAR methodology and test excavation methodology

The draft test excavation methodology was issued to RAPs on 4 November 2019 with comments requested by 2 December 2019. The draft ACHAR methodology was issued to RAPs on 8 November 2019 with comments requested by 9 December 2019.

Comments were received from 10 RAP groups regarding the test excavation or ACHAR methodology. All comments were in general supportive of the proposed test excavation and assessment methodology.

Additional comments relevant to the ACHAR methodology are summarised below:

**Table 1: Summary of RAP review comments**

Person/RAP group	Comment	Artefact response
Justine Coplin/ Darug Custodian Aboriginal Corporation	Requested that surface collection form part of the methodology	Surface collection cannot be undertaken during test excavation under the code of practice.  This comment will be noted for inclusion in the ACHAR report and may be recommended as a mitigation measure
Glenda Chalker/ Cubbitch Barta Native Title Claimants	Requested that all material is wet sieved  Noted that historic homesteads were often located within Aboriginal camp sites	It is anticipated that all material excavated will be wet sieved.  The area proposed to be subject to non-Aboriginal excavation has not been identified as an area of Aboriginal archaeological potential. An unexpected finds policy has been incorporated into the Non-Aboriginal testing program in the event that Aboriginal objects are recovered from test excavation.

### 3.3 Participation in test excavation

From the 28 January 2020, invitations to participate in fieldwork were sent out to several RAP groups who had provided feedback during the initial stages of the consultation process. Table 2 identifies the RAP representatives who participated in the test excavations.

**Table 2: RAP representatives participating in test excavations**

Personnel	Organisation
Ian Davies	Barraby Cultural Services
Arika Jalomaki	Wurrumay Pty Ltd
Adam King	Didge Ngunawal Clan (DNC)
Mark Dutton	Goobah
Amanda Hickey	Amanda Hickey Cultural Services
Brayden McDougall	A1 Indigenous Services
Steven Knight	Deerubbin LALC
Shelley Weldon	Deerubbin LALC
Lana Wedgewood	Darug Custodian Aboriginal Corporation
Tylah Blunden	Darug Custodian Aboriginal Corporation
Rebecca Chalker	Cubbitch Barta Native Title Claimants Aboriginal Corporation
Daniel Chalker	Cubbitch Barta Native Title Claimants Aboriginal Corporation

### 3.4 Review of draft ACHAR

A copy of the draft ACHAR was sent to the RAPs on 1 May 2020 with comments due by 30 May 2020. At the end of the consultation period, three RAP groups commented on the findings. A summary of these comments is provided in Table 3 below.

**Table 3: Summary of comments on draft ACHAR**

Person/RAP group	Comment	Artefact response
------------------	---------	-------------------

Person/RAP group	Comment	Artefact response
Glenda Chalker/ Cubbitch Barta Native Title Claimants	Queried whether silcrete cobbles identified within ACHAR were recorded as manuports	Silcrete cobbles identified during survey were not recorded as manuports as they were located within the portion of the study area which had been subject to landform modification associated with the placement of a large amount of fill across portions of survey unit 1. This has been further clarified in the discussion of survey unit 1 within the ACHAR
	Noted that PAD 03 should not be impacted and should be fenced prior to earthworks. Noted that PAD 03 is likely to contain subsurface material. Suggests that the PAD extent is extended to the elbow of the creek.	PAD03 will be demarked prior to earthworks. The environmental protection area encompasses PAD 03 and is inclusive of the entire portion of the study area outside of the AHIP application area
	Requests clarity regarding the environmental protection area.	Comments on cumulative impact and intergenerational equity have been noted
	Noted that cumulative impacts could accumulate to the total loss of Aboriginal heritage in this area.	Artefacts are proposed to be reburied within the vicinity of PAD 03 within the environmental protection area. As PAD 03 is not located within the proposed AHIP area, actions which may result in harm to Aboriginal objects which may be located within PAD 03 cannot be undertaken. The proposed reburial location is provided in Figure 16
	Noted preservation of PAD 03 will allow for intergenerational equity.	
	Recommended excavated artefacts should be reburied within the PAD03 area	



Person/RAP group	Comment	Artefact response
Justine Coplin/ Darug Custodian Aboriginal Corporation	Darug Custodian Aboriginal Corporation notes that a high amount of groups were consulted, with many groups consulted not from the local area.	Artefact must undertake consultation in accordance with consultation requirements which requires all groups who express an interest in the project to be consulted
	Darug Custodian Aboriginal Corporation do not support the input of any groups who are not from the local area.	
	Supports the remainder of the report	
Carolyn Hickey/ A1 Indigenous Services	Has reviewed the draft ACHAR and supports the document	None required

## 4.0 ENVIRONMENTAL BACKGROUND

### 4.1 Geology and soils

The study area is located within the central portion of the Cumberland Plain, a large low-lying and gently undulating landform in the Sydney Basin. The formation of the basin began between 300 to 250 million years ago when river deltas gradually replaced the ocean that had extended as far west as Lithgow (Pickett and Alder 1997). The oldest, Permian layers of the Sydney Basin consist of marine, alluvial and deltaic deposits that include shales and mudstone overlain by Coal Measures.

The geology of the area is characterised by the Triassic Wianamatta group which consists of black to dark grey shale and laminate on top of Medium to coarse-grained quartz sandstone, very minor shale and laminate. The landform of the study area is the result of local bedrock weathering. The underlying geology is the Hawkesbury Sandstone that was laid down as river sediments and is described as medium to coarse grained quartz sandstone, this is overlain by the finer sedimentary material caps of Ashfield Shale.

The eastern section of the study area associated with the South Creek floodplain contains the South Creek fluvial soil landscape. This landscape usually contains floodplains, valley flats and drainage depressions of the channels on the Cumberland Plain. The soils are often very deep layered sediments over bedrock or relict soils. Plastic clays or structured loams occur in and immediately adjacent to drainage lines. red and yellow podzolic soils are most common on terraces with small areas of structured grey clays, leached clay and yellow solodic soils (Bannerman & Hazelton 1990).

The central and western portions of the study area is comprised of the Blacktown Residual soil landscape which has shallow to moderately deep hard setting mottled texture contrast soils, red and brown podzolic soils on crests grading to yellow podzolic soils on lower slopes and in drainage lines. These nutrient-poor soils are highly erodible and hence are extremely susceptible to disturbance.

A small section of the study area (southwest) is comprised of the Berkshire Park alluvial soils. This landscape is the result of three depositional phases of Tertiary alluvial/colluvial origin. The lowest deposit is the St Marys formation, overlain by the Rickabys Creek gravel formation which is of varying thickness and, in turn, is topped by the Londonderry Clay formation. All of these formations are derived from sandstone and clay. Erosion of the surface has led to exposure of all three formations in different locations. The soils of Berkshire Park are weakly pedal orange heavy clays and clayey sands, which are often mottled, ironstone nodules are also common. Large silcrete boulders occur in sand/clay matrix Solods, usually on flats and in small drainage lines. Lower in the landscape where drainage conditions are poor, thin layers of dark brown sandy loams and brown a-pedal sandy clay loams are the surface material. Sand may occur in splays or as slugs of sediment within drainage lines. Laterite is often exposed at or near the surface in drainage lines or on crests.

### 4.2 Hydrology and vegetation

The study area is located within the Upper South Creek catchment associated with undulating hills and larger drainage lines which all flow to one main channel where alluvial sands and gravels derived from the surrounding rocks are present along current streams. The study area is bordered by South Creek in the east with several first order drainage lines across the study area feeding directly into the creek line. Several additional high order creek lines are located within

the vicinity of the study area including Badgerys Creek approximately 400 m west of the study area and Kemps Creek approximately 2.1 km east.

The vegetation in the study area has been impacted by urban development and land management practises. The study area would have once been covered by open Cumberland Plain Woodland, which is typical of the Wianamatta Group shale geology. Tree species would have included Forest Red Gum (*Eucalyptus tereticornis*), Sydney Blue Gum (*E. saligna*) and Grey Box (*E. moluccana*). The understory would likely have consisted of grass species, including spear grass, and shrub species such as blackthorn. The areas along South Creek have been frequently inundated as reflected by the vegetation. Common tree species include *Angophora subvelutina* (broad-leaved apple), *Eucalyptus amplifolia* (cabbage gum) and *Casuarina glauca* (swamp oak). Still water species such as *Eleocharis sphacelata* (tall spike rush), *Juncus usitatus* and *Polygonum* spp. occur where channels are silted up. On more elevated streambanks a tall shrubland of *Melaleuca* spp. (paperbarks) and *Leptospermum* spp. (tea trees) may occur. However much of this soil landscape has been previously cleared and is now dominated by exotic species such as *Rubus vulgaris* (blackberry) and other weeds.

### 4.3 Historical background and land use

The historical period in New South Wales began with European land settlement in 1788 when Governor Phillip claimed possession of the land now known as Australia, on behalf of the British Government. The documentary evidence relating to this period helps us to better understand the patterning of European settlement and to contextualise its material remains.

Elizabeth Drive dates from the early 1800s and was originally constructed as a 'corduroy' road, using round logs as a base. It was established to provide access to the areas' land grants and was originally known as the Orphan School Road as it extended west from the Orphan School in what is now Bonnyrigg. Its name was later changed to Mulgoa Road, in reference to its western extent, but subsequently changed again in 1952 to honour the visit of Queen Elizabeth II.

In 1809 James Badgery was granted 840 acres, which was revised to 640 following Macquarie's cancellation of the original grant and re-issuance of the grant in 1812. The grant lies between Badgerys Creek and South Creek, north of Elizabeth Drive. He built the homestead and named the property Exeter Farm after the place in England near where he was born.

The European settlement at Exeter Farm resulted in the eviction of Aboriginal people within Badgerys lands although there is no reported evidence to suggest that this involved bloodshed. It is further suggested that a small Aboriginal group were permitted by Badgerys to camp on South Creek (Hardy 1989: 19).

Governor Macquarie visited Exeter Farm in November 1810 on his first inspection of the interior of the colony noting in his journal that:

---

*Called first at Badgery's Farm close on the left Bank of the South Creek, where I was much pleased to find a good Farm House built, a good Garden, and a considerable quantity of ground cleared*

---

In the 1880s Exeter Farm was subdivided as enclaves of small 30 to 40 acre leased acreages. From the 1920s under the provisions of the Soldier Settlement Act 1919 further portions of James Badgery's early grant were divided. Exeter Farm was at that time in the ownership of the Stivens family, who later sold a portion of Exeter Farm to Ern Kent. In the 1930s, Kent sold his

property to Peter Nobbs, who moved into the homestead with his family to pursue dairying (Donald and Gulson 1996).

## 5.0 ARCHAEOLOGICAL BACKGROUND

### 5.1 Ethnohistorical context

The study area is located near the boundaries of two Aboriginal language groups, Dharawal and Gundungurra (Tindale 1974). The Dharawal are placed in the area from the south side of Botany Bay and Port Hacking to north of the Shoalhaven River and inland to Campbelltown, Camden and Bargo. They are thought to have ranged further north into the Liverpool region, the boundaries defined today can only be used as indicative (Attenbrow 2010). The Gundungurra are described as occupying the southern rim of the Cumberland Plain, west of the Georges River, including a boundary area with the Dharawal in the Camden and Bargo locality.

As traditional territorial boundaries were fluid it is uncertain which group(s) occupied the study area (Peterson 1976). The current state of knowledge about the fluidity of tribal boundaries is based partly on studies of contemporary Aboriginal communities in northern and central Australia who were less affected by European colonisation, and partly on observations of Aboriginal groups to the west and south-west of Sydney who had been severely affected by the disconnection from their lands cause by European colonisation (Thomson 1985).

There are also ethno-historical observations made by early explorers and settlers in the region, who first came into contact with the Aboriginal people of these areas in the 18th and 19th century. Wilson, during a 1798 expedition through the region, observed that people were wearing large skin cloaks. When James Backhouse travelled to the region in 1836, he noted that skin cloaks were still worn, but some European clothes and blankets were also used, and that ceremonies such as tooth avulsion were also practised (Koettig 1981).

In the early 1800s, relationships between the Aboriginal people of the area and the European settlers were in general amicable. Karskens (2010) notes several examples of close relationships between landowners and local Aboriginal people (Karskens 2010). Relations between Aboriginal people and colonists did not remain amicable. A sustained drought during 1814 and 1815, and continued disenfranchisement of Aboriginal people from the land lead to tensions between farmers and Aboriginal people who remained to the southwest of Sydney. Aboriginal people were accused of stealing corn and potatoes and spearing cattle. A number of farmers were killed on their properties. In a dispatch Governor Macquarie wrote that,

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*The Native Blacks of this country...have lately broken out in open hostility against the British Settlers residing on the banks of the River Nepean near the Cow Pastures.*

---

Aboriginal people were targeted, and it was ordered that Aboriginal men be strung from trees when they were killed as an example (Turbet 2011: 234).

In 1816, the tensions culminated in the Appin massacre when Aboriginal people where pursued by a detachment led by Captain James Wallis. Fourteen Aboriginal people of the Dharawal nation were shot or driven over a cliff to their deaths by the soldiers. The bodies of two of the Aboriginal men were strung up at the site (Turbet 2011).

Overall, the devastation of Aboriginal culture did not come about through war with the British, but instead through disease and forced removal from traditional lands. It is thought that during the 1789 smallpox epidemic over half of the Aboriginal people of the Sydney region died. This loss of life meant that some of the Aboriginal groups who lived away from the coastal settlement



of Sydney may have disappeared entirely before Europeans could observe them or record their clan names (Karskens 2010: 452).

Into the nineteen and twentieth century's descendants of the Gundungurra and Dharawal groups continued to live across the southern margin of the Cumberland Plain along with Aboriginal people from other areas of NSW.

## 5.2 Regional context

The archaeological understanding of the early Aboriginal settlement of the Sydney Basin and surrounds is constantly expanding and developing. The oldest evidence of human occupation in the vicinity of the study area comes from Cranebrook Terrace, located 20 km north west of the study area (Attenbrow 2010: 18-20). Cranebrook Terrace has been dated to 41,700 years Before Present (yBP) (ANU-4016).

The existing archaeological record is limited to certain materials and objects that were able to withstand degradation and decay. As a result, the most common type of Aboriginal objects remaining in the archaeological record are stone artefacts. Archaeological analyses of these artefacts in their contexts have provided the basis for the interpretation of change in material culture over time. Technologies used for making tools changed, along with preference of raw material. Different types of tools appeared at certain times, for example ground stone hatchets are first observed in the archaeological record around 4,000 years Before Present (BP) in the Sydney region (Attenbrow 2010: 102). It is argued that these changes in material culture were an indication of changes in social organisation and behaviour.

The Eastern Regional Sequence was first developed by McCarthy in 1948 to explain the typological differences he was seeing in stone tool technology in different stratigraphic levels during excavations such as Lapstone Creek near the foot of the Blue Mountains (McCarthy 1948). The sequence had three phases that corresponded to different technologies and tool types (the Capertian, Bondaian and Eloueran). The categories have been refined through the interpretation of further excavation data and radiocarbon dates (Hiscock and Attenbrow 2005; Jo McDonald Cultural Heritage Management [JMcD CHM] 2005). It is now thought that prior to 8,500 years BP tool technology remained fairly static with a preference for silicified tuff, quartz and some unheated silcrete. Bipolar flaking was rare with unifacial flaking predominant. No backed artefacts have been found of this antiquity.

After 8,500 years BP silcrete was more dominant as a raw material, and bifacial flaking became the most common technique for tool manufacture. From about 4,000 years BP to 1,000 years BP backed artefacts appear more frequently. Tool manufacture techniques become more complex and bipolar flaking increases (JMcD CHM 2006). It has been argued that from 1,400 to 1,000 years before contact there is evidence of a decline in tool manufacture. This reduction may be the result of decreased tool making, an increase in the use of organic materials, changes in the way tools were made, or changes in what types of tools were preferred (Attenbrow 2010:102). The reduction in evidence coincides with the reduction in frequency of backed blades as a percentage of the assemblage.

After European colonisation Aboriginal people of the Cumberland Plain often continued to manufacture tools, sometimes with new materials such as bottle glass or ceramics. There are a number of sites in Western Sydney where flaked glass has been recorded, for example at Prospect (Ngara Consulting 2003) and Oran Park (JMcD CHM 2007).

### 5.3 Previous archaeological investigations

A number of archaeological investigations have been completed in the vicinity of the study area. These have generally been associated with the development of infrastructure and urban release projects. The following discussion presents a review of the most recent and relevant studies and aims to provide contextual information for the current study area.

#### 5.3.1 Archaeological Technical Report (ATR) CSR Advanced Manufacturing Hub (Artefact 2019)

Artefact completed test excavation of a variety of landforms in close proximity to South Creek and 2km south of the current study area.

Excavation involved the excavation of eight transects intended to sample the assessment area at various elevations and distances from South Creek. A total of 32 artefacts were recovered from 18 of the 77 test pits which was interpreted as the repeated occupation of the assessment area by small groups. Excavation recovered a clay ball retainer hearth which was dated to  $2,056 \pm 20$  BP (Wk-48125). Excavation confirmed that the highest density of artefacts was found within close proximity to the creek line despite the identified flood risk associated with this portion of the study area.

#### 5.3.2 Western Sydney Airport (Navin Officer Heritage Consultants 2016)

An Aboriginal Cultural Heritage Assessment and test excavations were conducted on the land owned by the Australian Government situated on the west side of Badgerys Creek for the Western Sydney Airport. The assessment area included land directly south of the current study area including assessment of the South Creek corridor. The archaeological assessment incorporated both a survey and test excavation in which 23 new Aboriginal sites were recorded. Nine sites were registered as surface artefacts and 14 were registered as a result of the subsurface testing. The predominant material of these artefacts was silcrete. The sites included isolated artefacts, artefact scatters, and grinding grooves. Artefacts were found across varying landforms with valley floors, basal slopes, first order spur lines and areas within 100m of streams as containing a high average artefact incidence.

#### 5.3.3 Environmental Impact Statement for the Second Sydney Airport (Navin Officer Heritage Consultants 1997)

Navin Officer Heritage Consultants was engaged to conduct an Aboriginal cultural heritage study as part of the Environmental Impact Statement for the site options of the second Sydney airport. These two sites were located in Badgerys Creek and Holsworthy. The location of the Badgerys Creek site is directly south of the current study area. The study incorporated previous Aboriginal heritage studies within the local area, surface survey and oral cultural heritage information discussed with the various groups. Given the large survey area and landscape variables, the study area was divided into local landform units and further subdivided into order of ridgeline and order of stream.

The study identified that most site types were likely to be located in close proximity to water (within 50 m). Sites located near permanent water sources were likely to yield high artefact densities comprised of complex assemblages. A total of 110 sites were recorded during this survey. It was found that crests contained the lowest density of sites and isolated artefacts per square kilometre. Disturbance levels were directly correlated to low archaeological potential.

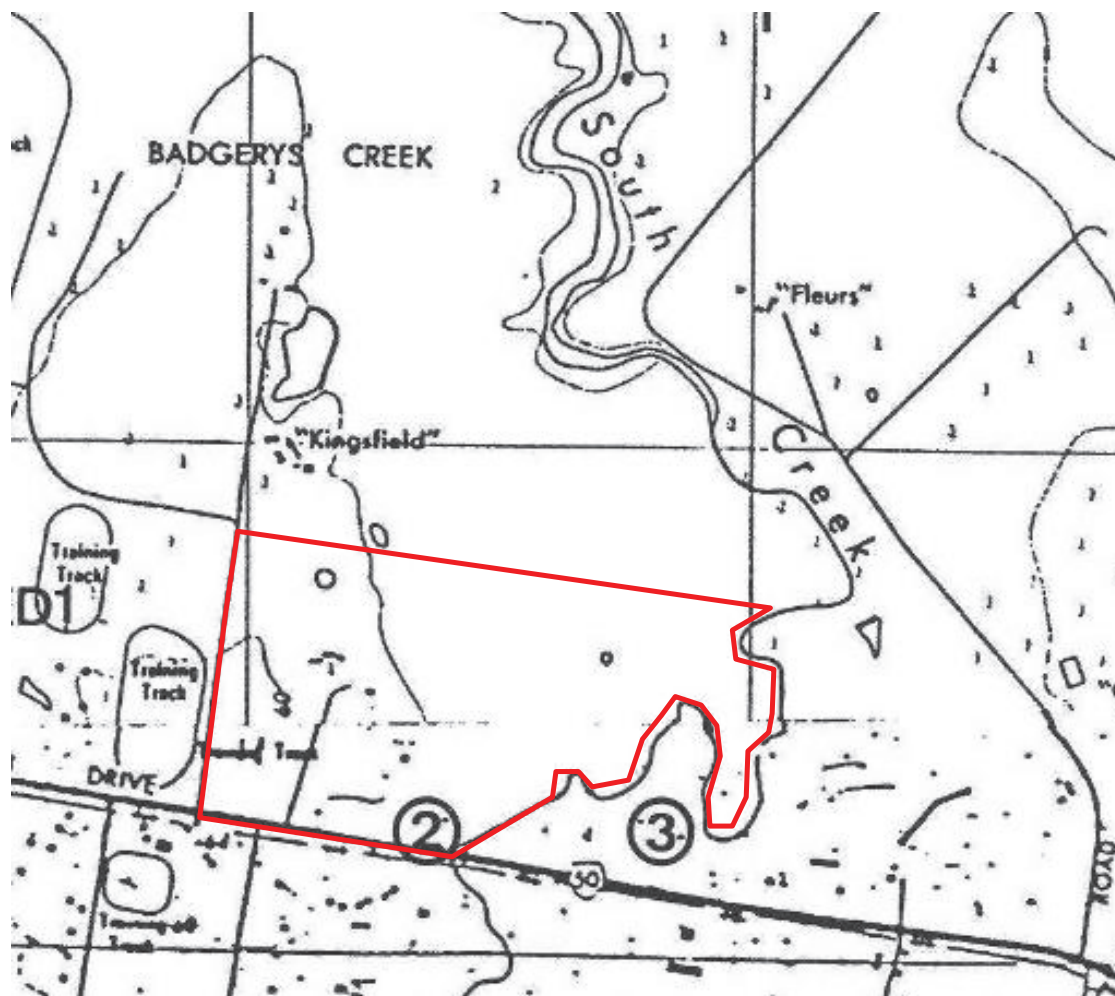
Relatively higher artefact densities were identified associated with the major watershed ridgeline between the Nepean River and South Creek catchments. However, it was noted that the relative sample size within the landform may have skewed the results and further research should be required.

#### 5.3.4 Elizabeth Drive Upgrade Archaeological Survey for Aboriginal Sites (Brayshaw 1995)

Brayshaw (1995) was engaged by Roads and Traffic Authority to investigate Aboriginal heritage for the Elizabeth Drive upgrade as part of the greater Sydney West Airport site. It was found that much of the Elizabeth Drive road easement had been disturbed as part of the previous road works. Several potential archaeological deposits (PADs) and two artefact scatters were identified north of Elizabeth Drive. These were generally associated with the downstream areas of waterbodies including Kemps Creek, Badgerys Creek, South Creek, and Cosgroves Creek.

One area of PAD was identified within the current study area within the south east portion of the study area. This area was located approximately 80m west of the banks of South Creek within a raised area between Elizabeth Drive and a gully flowing into the creek. Brayshaw considered it likely that that area was dry at most times when compared to the plains adjacent to South Creek which were likely subject to frequent flooding.

**Figure 2: Area of PAD identified by Brayshaw (shown by the number 2), current study area approximated in red**

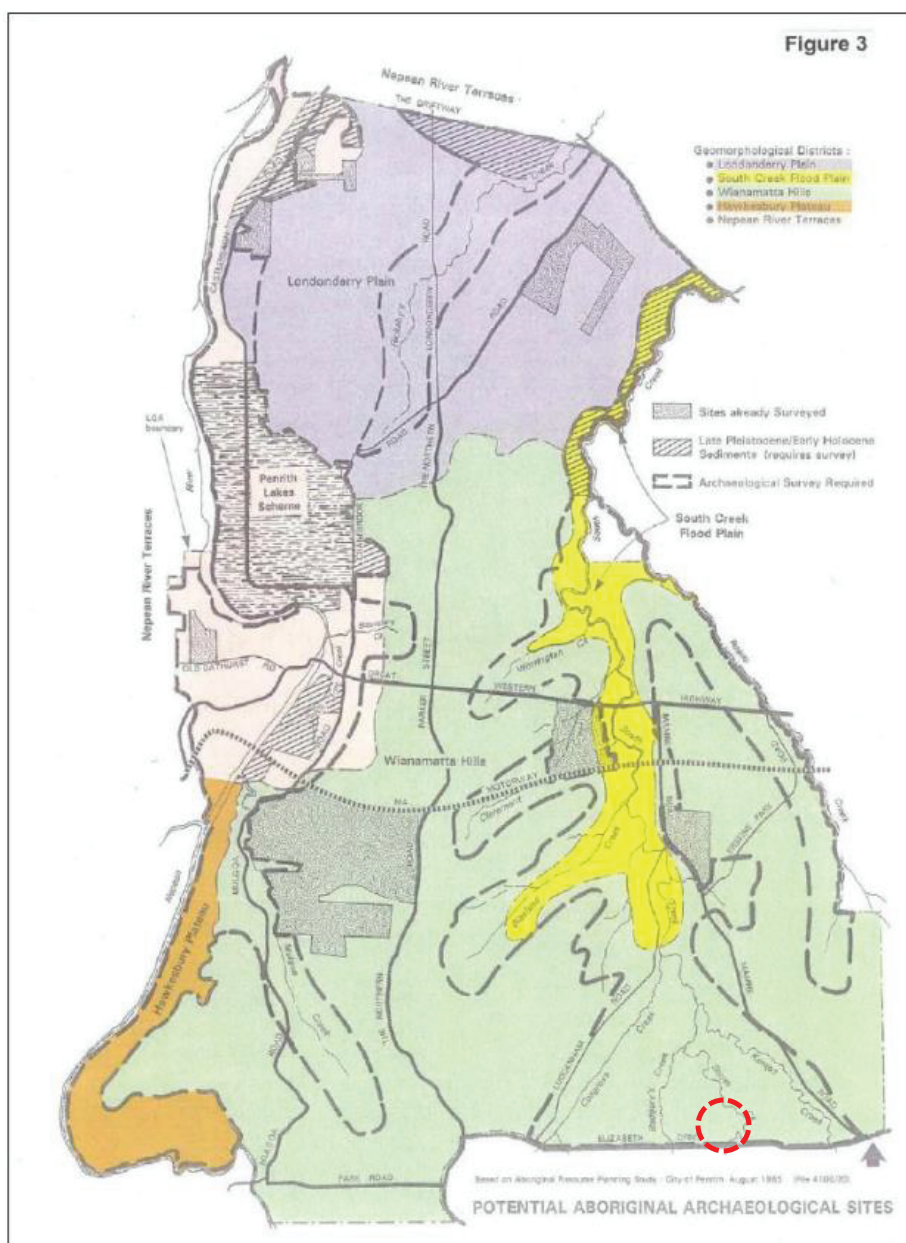


### 5.3.5 Penrith DCP 2014

The Penrith DCP is a non-statutory supporting document that compliments the provisions in the Penrith LEP 2015. The objectives of the document in relation to Aboriginal heritage is to 'preserve items and sites of Aboriginal archaeological significance located within the city of Penrith.

The DCP includes a sensitivity map has been created to guide whether archaeological assessment is required to be undertaken as part of a development application. The sensitivity map is based on assessment undertaken for the Aboriginal Resource Planning study completed for identifies the lands surrounding South Creek and its tributaries as sensitive. This area of sensitivity includes the entirety of the current study area.

**Figure 3: Potentially sensitive landscapes (illustrated by dashed line) within the Penrith LGA current study area approximated in red**





## 5.4 Registered Aboriginal sites

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

An extensive search of the (AHIMS) database was undertaken on the 9 April 2020 (AHIMS search ID 496851). An area of approximately 5 kilometres by 4.7 kilometres was included in the search. The AHIMS search provides archaeological context for the area and identifies whether any previously recorded Aboriginal sites are located within or near the study area. The parameters of the search were as follows:

GDA 1994 MGA 56	291052 – 296054 m E 6247329 - 6252066 m S
Buffer	0 m
Number of sites	72

A total of 54 Aboriginal sites were identified in the extensive AHIMS search area. The frequency of recorded site features is summarised in Table 4. A registered Aboriginal site is made up of one or more features and these features should not be confused with registered Aboriginal site. DPIE lists 20 standard site features that can be used to describe a site registered with AHIMS. For the 72 sites within the search area, five combinations of site features were recorded. The majority of recorded site features are artefacts (n=56) followed by Artefact and PAD (n=9).

**Table 4: Frequency of site features from AHIMS data**

Site Feature	Frequency	Percentage (%)
Artefact	56	77.7
Grinding Groove	1	1.4
Modified Tree (Carved or Scarred)	1	1.4
Potential Archaeological Deposit (PAD)	5	6.9
Artefact, Potential Archaeological Deposit	9	12.5
<b>Total</b>	<b>72</b>	<b>100</b>

Figure 4 illustrates that while a large proportion of sites are clustered around water courses that sites within the vicinity of the study area have been identified across a number of landform types. Artefact types represented are predominantly related to artefact sites which are less likely to have been destroyed by historical land use. Clusters of AHIMS sites associated with the Badgerys Creek airport site (to the south west of the current study area) and the M12 (to the north of the study area) highlight the inherent sampling bias in the AHIMS database.

Table 5 below outlines all AHIMS sites which are located within or directly adjacent to the study area.



**Table 5: Summary of sites located within or directly adjacent to the study area**

Site name and AHIMS ID	Site type	Proximity to study area <sup>2</sup>	Description
Elizabeth Precinct Artefact Scatter 01 (EP AS 01) (AHIMS ID 45-5-5233)	Artefact	Within	<ul style="list-style-type: none"> <li>Two silcrete artefacts located within a raised artificial terrace</li> </ul>
Elizabeth Precinct Isolated Find 01 (EP IF 01) (AHIMS ID 45-5-5232)	Artefact	Within	<ul style="list-style-type: none"> <li>Single retouched utilised piece located within a raised artificial terrace</li> </ul>
Elizabeth Precinct Isolated Find 02 (EP IF 02) (AHIMS ID 45-5-5231)	Artefact	Within	<ul style="list-style-type: none"> <li>Grey chert proximal flake fragment identified as a scraper within a raised artificial terrace</li> </ul>
Elizabeth Precinct PAD 03 (EP PAD 03) (AHIMS ID 45-5-5236)	PAD	Within	<ul style="list-style-type: none"> <li>Area of potential associated with alluvial flats directly adjacent to South Creek</li> </ul>
Elizabeth Precinct PAD 02 (EP PAD 02) (AHIMS ID 45-5-5235)	PAD	Within	<ul style="list-style-type: none"> <li>Area of potential associated with spur landform located above the confluence of two drainage lines</li> <li>Registration superseded by results of test excavation program which resulted in recording of subsurface artefact scatter Elizabeth Precinct Artefact Scatter 02 (EP AS 02) across PAD extent</li> </ul>
Elizabeth Precinct PAD 01 (EP PAD 01) (AHIMS ID 45-5-5236)	PAD	Within	<ul style="list-style-type: none"> <li>Area of potential on a raised crest landform associated with a wide ridgeline</li> <li>Registration superseded by results of test excavation program which resulted in recording of subsurface artefact scatter EP AS 02 across PAD extent</li> </ul>
Elizabeth Precinct Isolated Find 03 (EP IF 03) (AHIMS ID 45-5-5230)	Artefact	Within	<ul style="list-style-type: none"> <li>Single platform core located within a dam wall</li> </ul>

<sup>2</sup> Based on identified site extents identified in AHIMS site cards

Site name and AHIMS ID	Site type	Proximity to study area <sup>2</sup>	Description
Elizabeth Drive AFT 1 (ED AFT 1) (AHIMS ID 45-5-5259)	Artefact	2 m south of study area	<ul style="list-style-type: none"> <li>Site located within the Elizabeth Drive road verge within a level crest landform</li> <li>Site comprised of 5 silcrete artefacts</li> <li>Potential for intact subsurface deposit considered to be low-moderate based on existing disturbance associated with construction of gas main within road reserve</li> </ul>
Elizabeth Precinct Artefact Scatter 02 (EP AS 02) (AHIMS ID 45-5-5236)	Artefact	Within	<ul style="list-style-type: none"> <li>Low density subsurface artefact scatter identified following test excavation of EP PAD 01 and EP PAD 02.</li> <li>Assessed as extending through both crest and slope landform based on the homogeneous nature of the soil profile and the similar nature of artefacts identified across test areas</li> <li>Comprised of 89 artefacts recovered from 22m<sup>2</sup> of excavation.</li> <li>Included two high density artefact concentrations including one containing glass artefacts</li> </ul>
Elizabeth Precinct Isolated Find 04 (EP IF 04) (AHIMS ID 45-5-5331)	Artefact	Within	<ul style="list-style-type: none"> <li>Silcrete proximal flake fragment located within an exposure with a sloped landform</li> </ul>
Elizabeth Precinct Isolated Find 05 (EP IF 05) (AHIMS ID 45-5-5330)	Artefact	Within	<ul style="list-style-type: none"> <li>Medial flake fragment located within an erosion scour within a drainage line</li> </ul>

Figure 4: Results of extensive AHIMS search

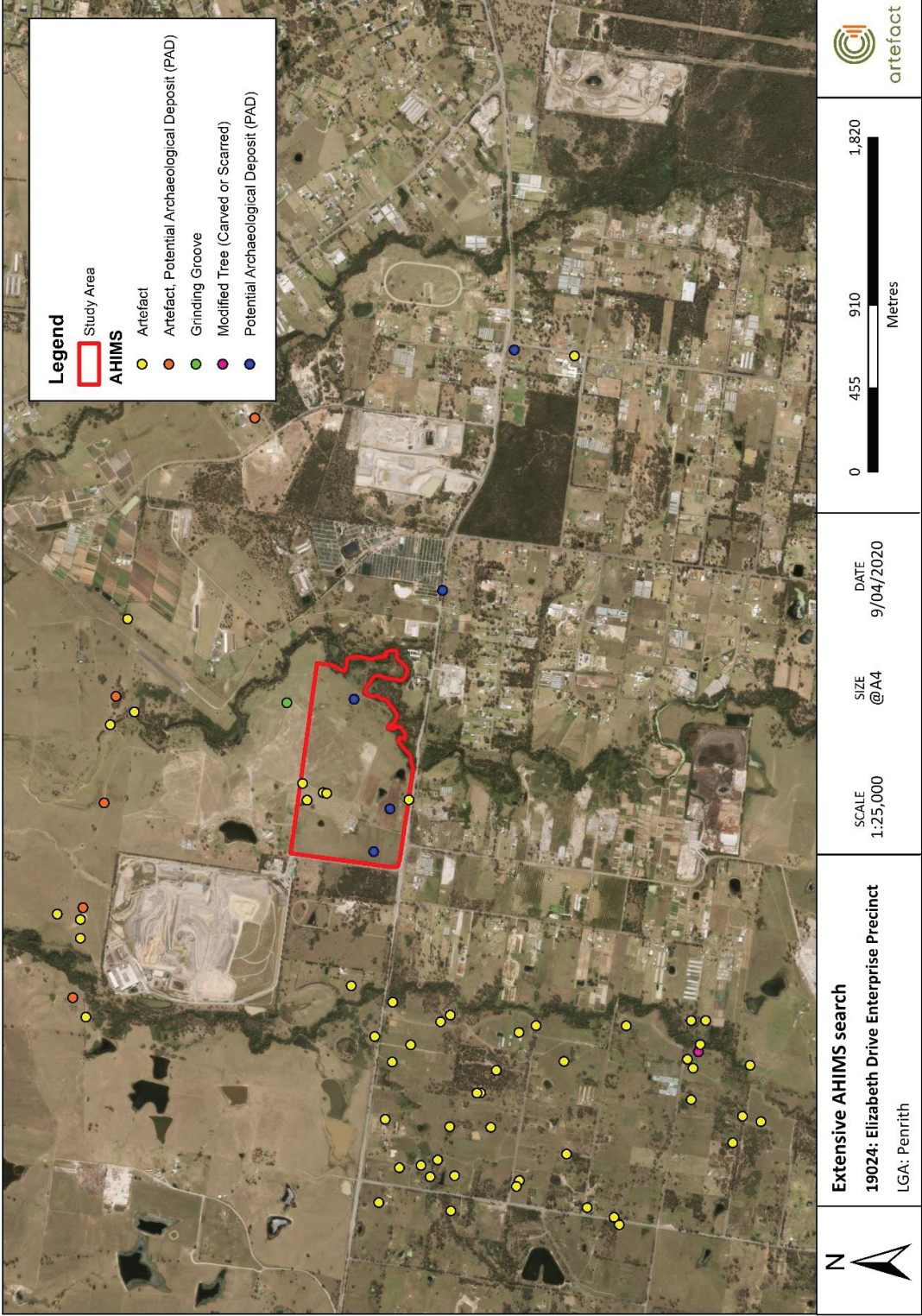
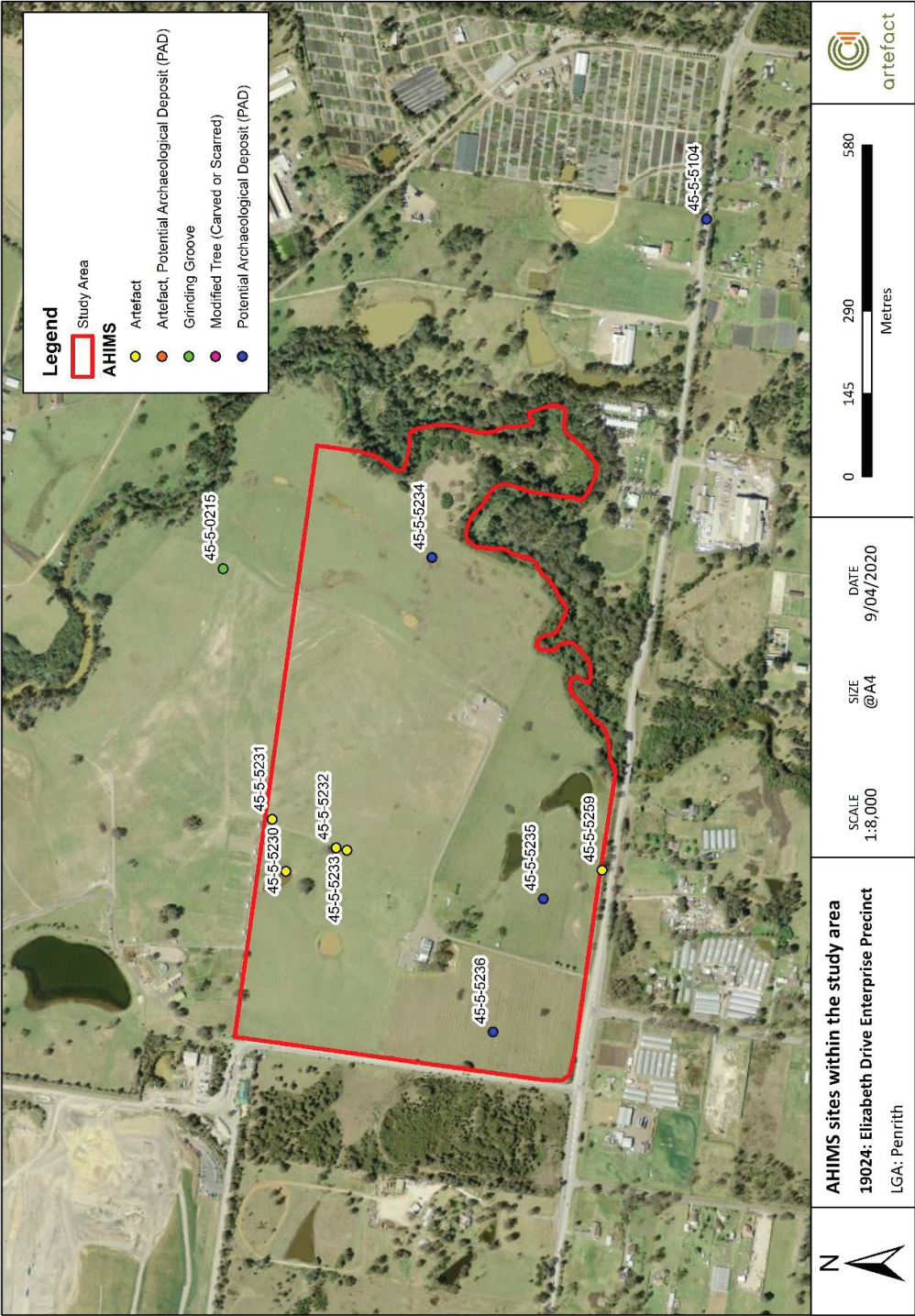




Figure 5: AHIMS sites within the study area prior to the results of the test excavation program



## 5.5 Predictive model

Archaeological investigation across the Cumberland Plain has been comprehensive over the past 30 years, including survey, excavation and desktop analysis studies. This varied and intensive investigation has led to the development and continual refinement of a predictive model for Aboriginal occupation within the region.

Regional studies have been undertaken on the large Growth Centres of the North West and South West of the Cumberland Plain, west of the Sydney Basin. White and McDonald (2010) have contributed to the debate over site prediction by discussing the nature of Aboriginal site distribution, interpreted through lithic analysis of excavated sites in the Rouse Hill Development Area (White and McDonald 2010). The Rouse Hill Development Area is located about 25 km north of the current study area. The watercourses in the development area (Caddies Creek and Second Ponds Creek) derive from the same source as South Creek and are of a similar stream order. The soil landscapes are also reflective of those in the current study area, the South Creek Soil Landscape along the high order watercourses and associated remnant Blacktown Soil Landscape. The study gave rise to the commonly referred Stream Order Model which provides a sound basis for archaeological investigations in the Cumberland Plain. The paper provides a spatial and distributive analysis of Aboriginal objects in relation to freshwater resources and along varying landform units. The findings of this study highlighted the relationship between proximity to freshwater and landscape with archaeological evidence of Aboriginal activities. The study found that artefact densities were most likely to be greatest on terraces and lower slopes within 100 m of freshwater resources (White and McDonald 2010). The predictive model identified that ridgelines and crests located between drainage lines will contain archaeological evidence though usually representative of background scatter (White and McDonald 2010).

While White and McDonald's (2010) predictive model can be seen as an indicative model of the archaeology of the Cumberland Plain, a more recent study has been conducted by Godden Mackay and Logan (GML 2012) at the East Leppington Precinct approximately 11 km south of the current study area. The study utilised the Stream Order Model developed by White and McDonald (2010) in their investigations and three different and complementary models to explain their findings. The Stream Order Model is a regional based model and doesn't consider the small-scale intra-landform variations that can affect the predictions of this model.

Owen and Cowie (2017) describe three other models that can be used to more accurately describe archaeological probability within the landscape. The Economic Resource Model, Activity Overprinting Model and Domiciliary Spacing Model. These models were used as the basis of predictive modelling within the East Leppington precinct assessment 18 kilometres south of the current study area. Post excavation analysis considered that the combination of these models provided a good understanding of the over-arching archaeological potential of the East Leppington landscape.

The Economic Resource Model identifies locations with substantial resources (such as food and knapping sources) as economic zones. The model identifies a correlation between the relative yield of the economic zone and the distance that sites are likely to be away from the economic zone. Site locations are also considered to relate to changes in 'textures' across the landscape which may include changes in landform. Varying landforms within the influence of an economic zone can then be ranked according to their suitability for repeated occupation. Substantial creek lines are



considered high resource zones due to the richness in flora and fauna. The model suggests that the evidence of Aboriginal activities will decrease with distance from these resource rich nodes.

The Activity Overprinting Model was used to explain the density of sites at increasing distances from the creek and Domiciliary Spacing Model was used to describe the features and spatial variation of a site.

In conjunction with these models, an understanding of the soil landscape and the nature and prevalence of cultural material within these contexts is important in the predictive model process. Deposits that contain cultural material are likely to exist within the Blacktown soil landscapes however, these deposits are generally not stratified. Blacktown soils retrieve cultural material in A Horizon deposits which generally extend approximately 300 mm below the ground surface.

Every predictive model has its limitations and constraints and should be used as a guiding factor for future investigation and as a tool to further current understanding of the cultural environment.

## 6.0 RESULTS

### 6.1 Results of archaeological survey

#### 6.1.1 Timing and personnel

An archaeological survey was undertaken on 20 March 2019. The survey was supervised by Alyce Haast (Senior Heritage Consultant, Artefact) with Ryan Taddeucci (Senior Heritage Consultant, Artefact) and Steve Randall (Deerubbin LALC) in attendance.

#### 6.1.2 Survey strategy and methodology

The study area was divided into four survey units based on existing paddock boundaries and land uses (Figure 6).

The survey methodology initially included the completion of a full coverage survey which was attempted within survey unit 1. A single transect was completed along the northern edge of the survey unit by three people spaced 30 m apart. At the completion of the first transect it was observed that manicured grasses covered the majority of the survey unit and surface artefacts were unlikely to be identified within these areas.

Following the initial transect survey focus transitioned to a sample survey with areas of focus on sensitive landforms and areas of exposure. Waypoints were collected by a handheld, non-differential GPS to record landform features and areas of disturbance across the study area.

#### 6.1.3 Survey

In general, ground surface visibility was very low with the majority of the ground surface covered with dense grass, vegetation, and road pavements. The survey resulted in the identification of four surface artefact sites and three areas of archaeological potential.

##### 6.1.3.1 Survey Unit 1

Survey unit 1 was located in the northeast corner of the study area and bordered along the east by South Creek. The eastern portion of the survey unit was comprised of alluvial terraces associated with the South Creek floodplain. The western half of the survey unit had been modified through a substantial level of imported fill which had created an artificial raised terrace. The artificial raised terrace landform was distinct from the remainder of the flood plain by an earth batter located along the centre of the survey unit.

The majority of the survey unit was comprised of open pasture. Remnant vegetation included sporadic juvenile and mature trees and small areas of invasive blackberry. Exposures were limited to areas of erosion associated with vehicle tracks and areas frequented by grazing horses within the survey unit.

Three Aboriginal sites and one area of PAD were identified within survey unit 1. The three Aboriginal sites were located within the western half of the survey unit within the area of fill. These sites were assessed to be located within a disturbed landform context. The area of fill also included

several silcrete cobbles which were assessed to be associated with the fill event. The area of PAD was identified within the eastern portion of the survey unit within an intact landform.

#### **6.1.3.2 Survey Unit 2**

Survey unit 2 was located in the south east corner of the study area and bordered on the eastern side by South Creek. The survey unit included the alluvial terrace landform adjacent to South Creek as well as the lower reaches of two spur lines extending from the south western portion of the study area.

The survey unit included two existing drainage lines which had been converted into two large dams across the centre of the survey unit. Evidence of former cropping was visible within the two spur lines with remnant plantings and ground furrows present in this area.

The majority of the survey unit had been cleared of native vegetation and was comprised of open pasture. Remnant vegetation included sporadic juvenile and mature trees surrounding the drainage lines and the remains of the former cropped species.

Exposures were limited to the areas surrounding the dams and exposed land associated with former agricultural furrows. Isolated fragments of ceramic and glass were noted within the northern spur line with remnant building materials stockpiled in the north western portion of the survey unit.

No Aboriginal sites were identified within this survey unit. One area of PAD was identified within survey unit 2

#### **6.1.3.3 Survey Unit 3**

Survey unit 3 was located in the western portion of the study area. The survey unit included a ridgeline feature which ran roughly north south along the survey unit and provided a significant outlook across the remainder of the study area including South Creek. The eastern portion of the survey unit included the upper slope of the spur landforms leading towards South Creek.

Three large dams were identified within the survey unit. With exception of the dam areas landforms within the survey unit appeared relatively intact with minor disturbances limited to a gravel road surface running east-west towards the central portion of the survey unit. Creation of the dam walls was considered to have resulted in high levels of disturbance in these areas.

While no evidence of agricultural use was noted during the site inspection, historical aerials confirmed the former use of the survey unit for agricultural purposes.

The majority of the survey unit had been cleared of native vegetation and was comprised of open pasture. Regrowth trees were largely located surrounding the drainage lines. Exposures were limited to the areas surrounding the dams.

One Aboriginal site and one area of PAD was identified within survey unit 3.

#### **6.1.3.4 Survey Unit 4**

Survey unit 4 was located within the central portion of the study area and included a modern construction compound located within a flat landform within the central portion of the study area.

The ground surface within this survey unit was obscured by an existing blue metal gravel compound area. Existing structures within the survey unit were largely comprised of demountable structures and sheds. Evidence of former structures were noted by the presence of a concrete building pad.

No Aboriginal sites or areas of PAD were identified within survey unit 4.

#### 6.1.4 Survey results

The survey resulted in the identification of four surface artefact sites and three areas of archaeological potential. A summary of the identified Aboriginal sites and assessed significance of each site is provided in Table 6 and Figure 7. Results of the archaeological survey are further detailed in Appendix 2.

**Table 6: Summary of archaeological features identified in each survey unit**

Survey Unit	Aboriginal site	Site description	Assessed significance
Survey unit 1	EP AS 01	Two silcrete artefacts located within a raised artificial terrace	Low
	EP IF 01	Single retouched utilised piece located within a raised artificial terrace	Moderate
	EP IF 02	Grey chert proximal flake fragment identified as a scraper within a raised artificial terrace	Moderate
	EP PAD 03	Area of potential associated with alluvial flats directly adjacent to South Creek	Unknown
Survey unit 2	EP PAD 02	Area of potential associated with spur landform located above the confluence of two drainage lines	Unknown
Survey unit 3	EP PAD 01	Area of potential on a raised crest landform associated with a wide ridgeline	Unknown
	EP IF 03	Single platform core located within a dam wall	Low
Survey unit 4	None	None	None

### 6.1.5 Survey recommendations

The survey report recommended that an AHIP would be required prior to impact to identified Aboriginal objects. Additional recommendations included that:

- Archaeological test excavation should be conducted within those portions of EP PAD 01 and EP PAD 02 that will be impacted by proposed waste management facility Development Application.
- EP PAD 03 is outside of the area of proposed impacts of the waste management facility. If design changes indicate impact to EP PAD 03, test excavation must be undertaken within EP PAD 03.
- Archaeological test excavation must be undertaken in accordance with the Code of Practice. Archaeological test excavation will be undertaken in order to confirm the presence and geographic extent of subsurface Aboriginal objects and assess their significance to inform further recommendations.
- Detailed design should consider minimising impacts on known Aboriginal sites and areas of PAD. An updated impact assessment will be part of the ACHAR following refinement of the proposed cut and fill methodology and clarification of potential impacts to Aboriginal objects.
- Comprehensive Aboriginal stakeholder consultation carried out in accordance with the 'Aboriginal cultural heritage consultation requirements for proponents' (DECCW 2010), must be conducted for the project.



Figure 6: ASR survey units

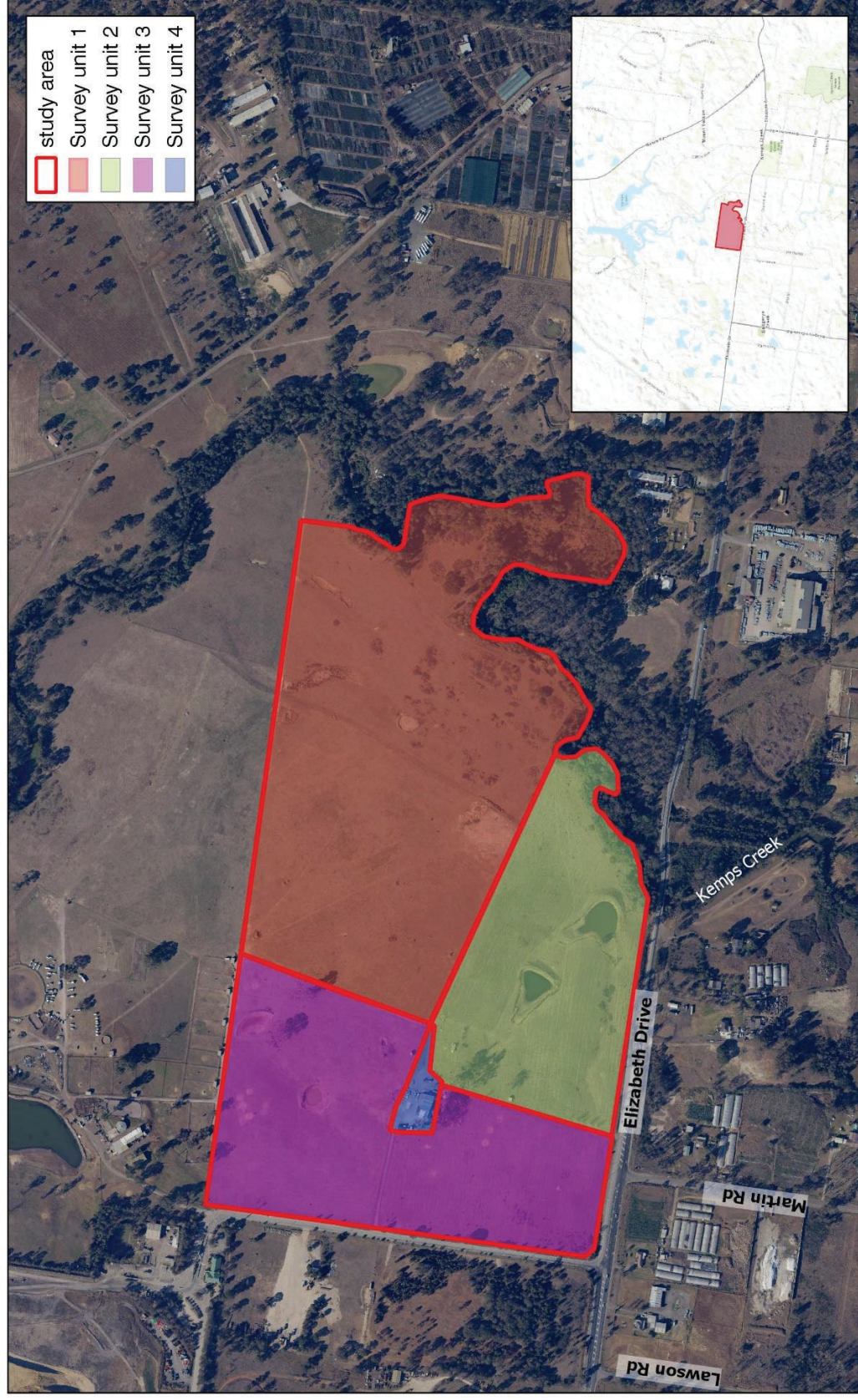
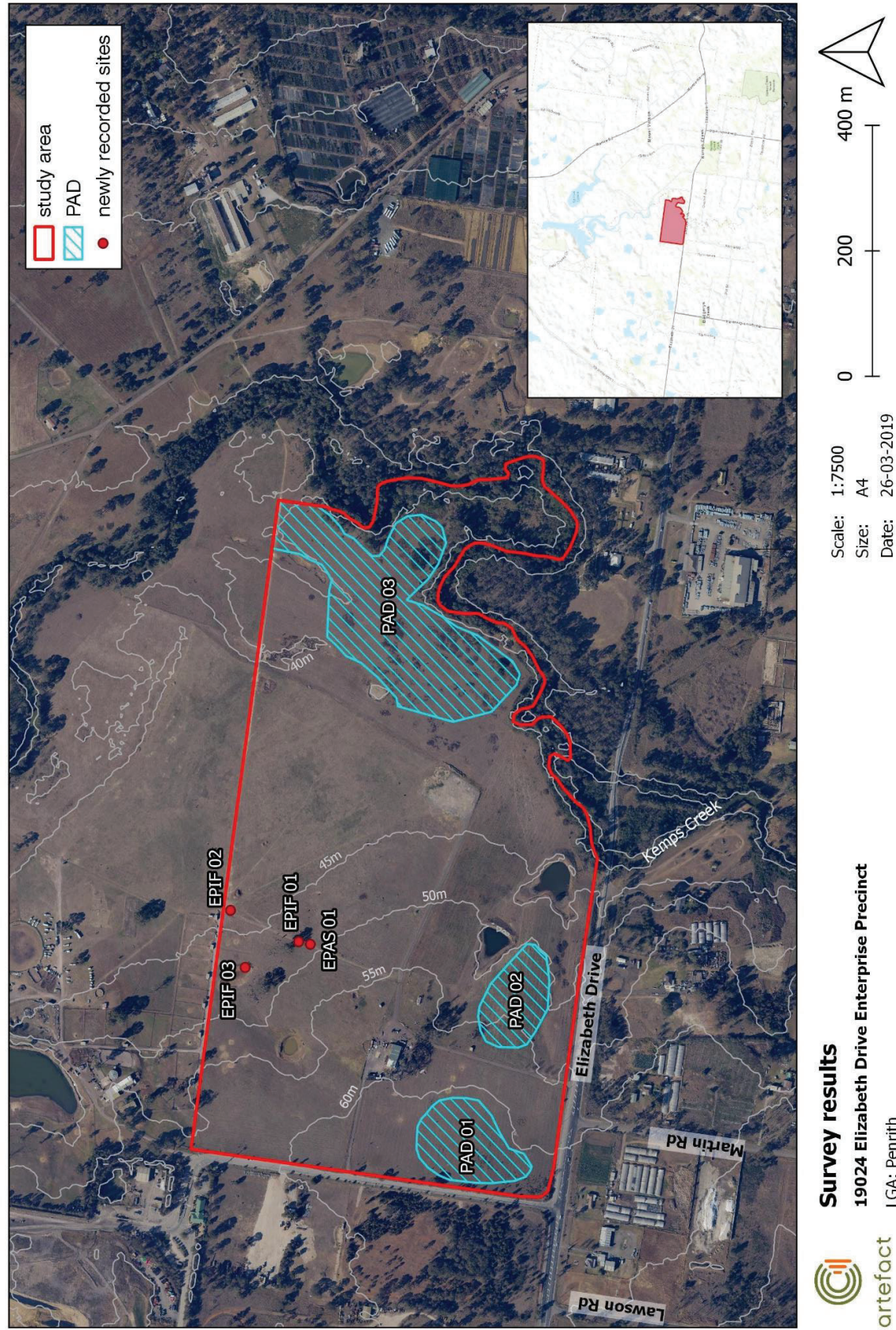




Figure 7: Survey results



## 6.2 Results of archaeological test excavation

In accordance with the recommendations provided in the ASR, archaeological test excavations were conducted within EP PAD 01 and EP PAD 02 in February and March of 2020. Test excavation was conducted the Code of Practice.

A detailed discussion of the results of the test excavation program is provided in the ATER which is appended to this report.

### 6.2.1 Timing and personnel

The test excavation program was carried out over 13 days from the 17 February to 6 March 2020. Test excavation was directed by Duncan Jones (Principal, Artefact), supervised by Alyce Haast (Senior Heritage Consultant, Artefact) and Anna Darby (Heritage Consultant, Artefact).

A full list of participants in the test excavation is available in the test excavation report.

### 6.2.2 Test excavation strategy and methodology

Archaeological test excavation was conducted across two test areas across the areas of archaeological potential which would be impacted by the proposal. This included excavation of the mapped extent of EP PAD 01 (AHIMS ID 45-5-5236) and EP PAD 02 (AHIMS ID 45-5-5235).

Excavation within Elizabeth Precinct test area 1 (EP 1 – correlating with an area focussed on the EP PAD 01) included the excavation of 58 excavation units (excavation unit = 50 centimetres by 50 centimetres) across the full extent and immediate surrounds of EP PAD 01 (AHIMS ID 45-5-5236). Elizabeth Precinct test area 2 (EP 2 – correlating with an area focussed on EP PAD 02) included the excavation of 30 excavation units across the full extent and immediate surrounds of EP PAD 02 (AHIMS ID 45-5-5235).

Excavation units were initially placed in transects located 30 m apart across the extent of EP PAD 01 and EP PAD 02 with each transect running approximately perpendicular to South Creek. Excavation units were spaced 30 m apart along each transect to form a grid pattern across the tested landform. Placement of transects perpendicular to South Creek was undertaken to recover information regarding the relationship between the distance to South Creek and artefact density across varying landforms.

A total of two excavation units were expanded to 1 m x 1 m test pits (comprised of four individual excavation units) where comparatively higher densities of Aboriginal objects were recovered. In one instance an additional excavation unit was placed 15m from an existing high-density pit to further investigate the geographic distribution of the high density deposit within the established requirements of the Code of Practice.

### 6.2.3 Test excavation results

The test excavation program recovered 89 artefacts from 22 m<sup>2</sup> of excavation with two artefact concentrations identified across the two test areas investigated. Artefact density across the test areas generally recovered a low density of artefacts across the tested landforms which comprised of a transitional landscape between a low-lying crest landform and the surrounding slope landform descending towards South Creek. Analysis the soil characteristics across both test excavation areas identified a continuous sub-surface deposit with similar artefact types

identified across both test areas. Based on this assessment, the artefact deposit was assessed as being part of one large site extent recorded as Elizabeth Precinct Artefact Scatter 02 (AHIMS ID 45-5-5236).

The two artefact concentrations within the wider site extent were assessed as potentially relating to reduction activities being undertaken across the site. The presence of these high concentrations of artefacts, as well as the presence of Aboriginal glass artefacts from test pits in EP 2, was considered to further support the concept that portions of the site remain relatively intact despite some subsurface spatial movement of artefacts from European planting and ploughing activities.

In addition to the subsurface artefacts recovered, two additional surface artefact sites (EP IF 04 and EP IF 05) were located within the test excavation area and archaeologically recorded. In accordance with the Code of Practice these artefacts were not collected during the test excavation program.



Figure 8: Results of test excavation

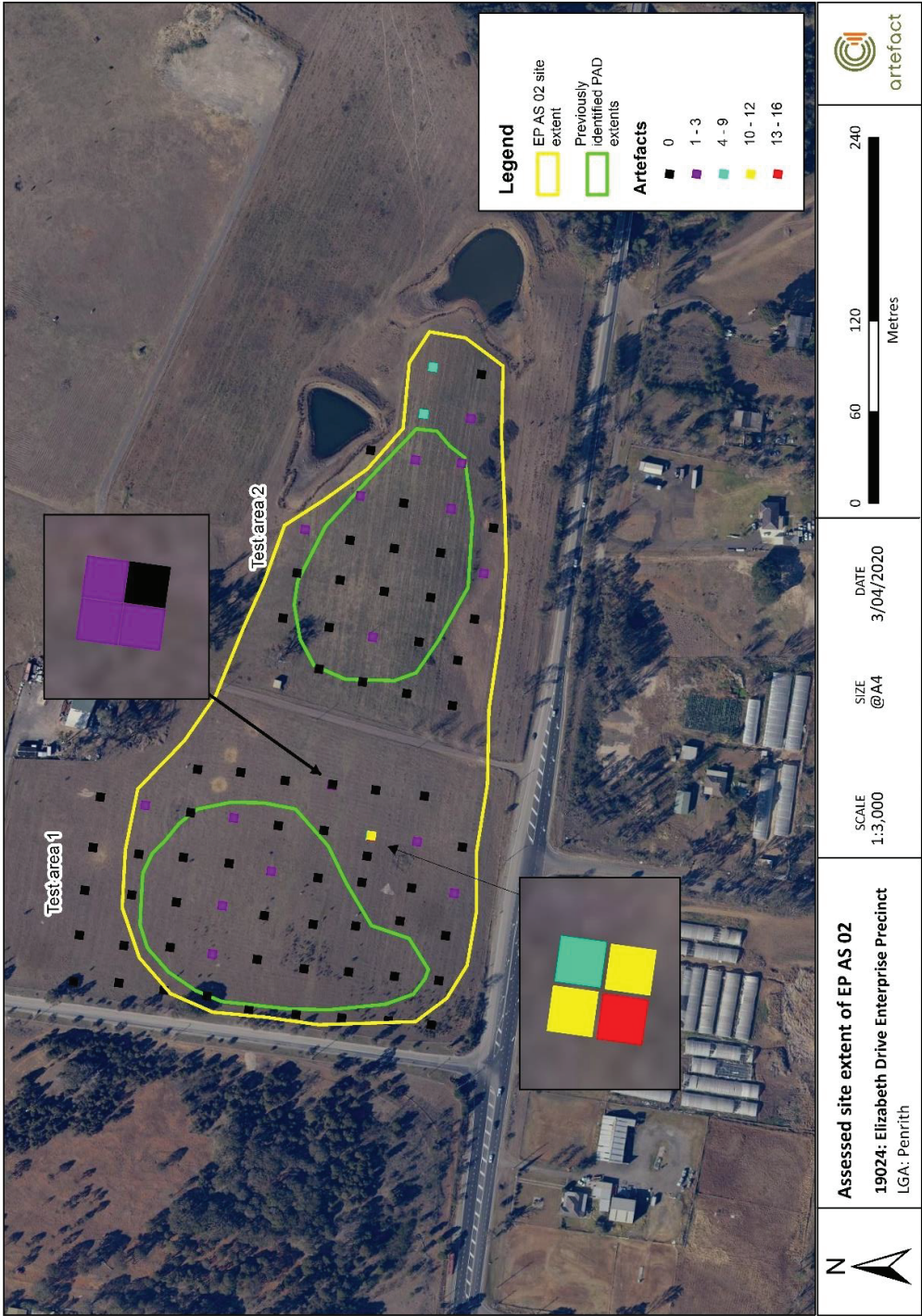
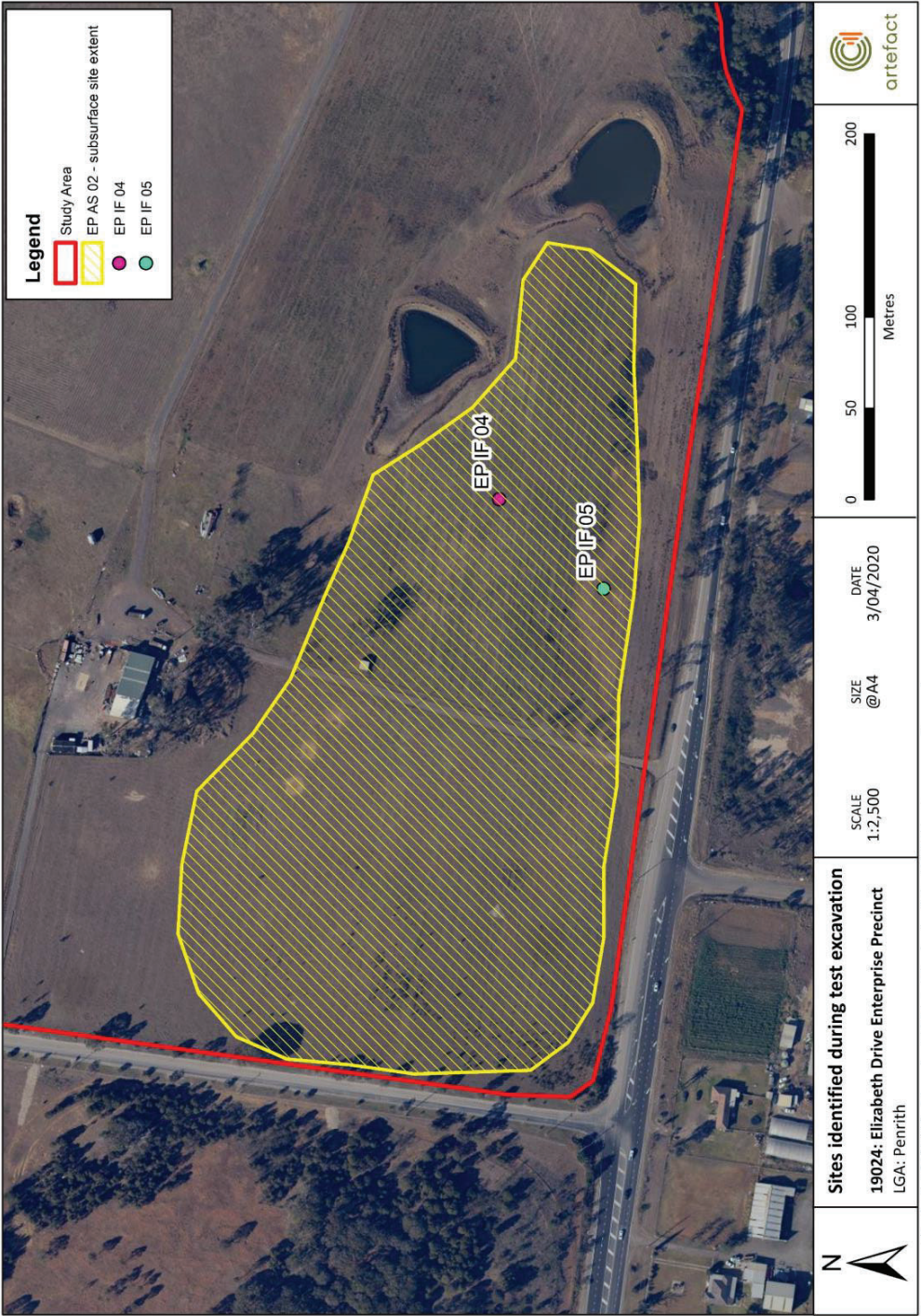




Figure 9: Sites identified as a result of test excavation program



## 6.3 Results of supplementary survey

### 6.3.1 Timing and personnel

During preparation of the ACHAR two AHIMS searches were conducted, the first on 18 March 2019 and the second on 9 April 2020. When the second 2020 search was undertaken, an additional Aboriginal site Elizabeth Drive (ED) AFT 1 (AHIMS ID 45-5-5259) was identified immediately adjacent to the southern property boundary of the study area.

Due to the presence of a newly identified Aboriginal site in close proximity to the study area, a supplementary archaeological survey was undertaken on 22 April 2020 to locate the ED AFT 1 site and assess its condition and relationship to the current study area. This survey was supervised by Duncan Jones with Sarah Hawkins (Heritage Consultant, Artefact) also in attendance.

### 6.3.2 Survey strategy and methodology

Survey was limited to investigation of the Elizabeth Drive road corridor (outside the study area) within the vicinity of the registered site coordinates of ED AFT 1. The site coordinates were relocated utilising a non-differential GPS and a copy of the AHIMS site card. Photographs of the site extent were taken using a scale where appropriate.

### 6.3.3 Survey results

Survey identified that the site extent of ED AFT 1 was limited to the Elizabeth Drive road corridor, on an embankment directly to the north of Elizabeth Drive and approximately 2 m to the south of the study area property fence line. Vegetation conditions in the site card indicated that the site was originally identified during a dry conditions, however apart from small exposed areas the majority of the site was covered in thick grass with poor visibility overall (Figure 10).

A gas main was located directly to the north of the site, near to the fence line. The embankment was moderately steep to the south and had been excavated to form Elizabeth Drive. While the exposure that artefacts were identified on was considered relatively intact, ground to the north was considered disturbed by trenching required to install the gas main.

Three orange silcrete artefacts were identified, consisting of one whole retouched flake, one partial core fragment and one flake fragment (Figure 11).

**Figure 10: View of ground exposure in site area of ED AFT 1, east aspect**



**Figure 11: Silcrete artefacts identified during survey**



## 7.0 CULTURAL HERITAGE ASSESSMENT

The cultural assessment in this report includes information determined from desktop assessment, consultation during the survey and through the consultation period for the RAP review of this ACHAR. This information was collected by Alyce Haast (Senior Heritage Consultant, Artefact Heritage).

### 7.1 Cultural landscape

The World Heritage Convention of United Nations Educational, Scientific and Cultural Organisation (UNESCO) defines a cultural landscape as one which has 'powerful religious, artistic or cultural associations of the natural element rather than material cultural evidence, which may be insignificant or even absent' (UNESCO 1991). The relationship between Aboriginal Australians and the land is conceived in spiritual terms rather than primarily in material terms (Andrews et al 2006). Aboriginal cultural knowledge has been defined as:

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*Accumulated knowledge which encompasses spiritual relationships, relationships with the natural environment and the sustainable use of natural resources, and relationships between people, which are reflected in language, narratives, social organisation, values, beliefs and cultural laws and custom (Andrews et al 2006).*

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Aboriginal cultural knowledge was traditionally bequeathed through oral traditions from generation to generation. Within all Aboriginal communities there was a time of dislocation and upheaval associated with the arrival of colonial settlers. This widespread disruption resulted in much of the detailed knowledge and understanding of many of the elements of the cultural landscape being lost from the Aboriginal community, nonetheless many Aboriginal people maintain a strong connection to the land of their ancestors and collectively possess a wealth of knowledge passed down through the generations.

### 7.2 Identified Aboriginal cultural heritage values

Table 7 provides a summary of the Aboriginal cultural heritage values associated with the study area.



**Table 7: Cultural heritage values identified for the study and surroundings:**

Cultural heritage value	Description	Source
Archaeological evidence of Aboriginal occupation	Aboriginal people have expressed a strong view that sites and deposits associated with the archaeological record of Aboriginal occupation at Badgerys Creek were of high cultural value to Aboriginal people.	Navin Officer Heritage Consultants 2016
Undeveloped nature of Badgerys Creek	<p>The area is regarded as having characteristics which would have made it of significance in the traditional life of Aboriginal people of the pre-colonial past and, as such it should be retained in as natural state as possible</p> <p>The intangible cultural values of the landscape and its surviving biota were valued for their association with traditional culture and lore, and the sense of the place and social identity derived from them.</p>	Navin Officer Heritage Consultants 2016
South Creek	<p>Dually named Wianamatta meaning mother place in the Dharug language. South Creek contains intrinsic Aboriginal cultural values.</p> <p>Historic record includes reference to Darug ceremonies held along banks of South Creek at the Mamre estate approximately eight km north of current study area</p>	Navin Officer Heritage Consultants 2016

## 8.0 SIGNIFICANCE ASSESSMENT

### 8.1 Significance assessment criteria

An assessment of the cultural heritage significance of an item or place is required in order to form the basis of its management. DPIE provides guidelines for heritage assessment with reference to the Burra Charter (Australia ICOMOS 2013) and the Heritage Office guidelines (2001). The assessment is made in relation to four values or criteria (Table 8). In relation to each of the criteria, the significance of the subject area should be ranked as high, moderate or low.

In addition to the four criteria, DPIE requires consideration of the following:

- Research potential: does the evidence suggest any potential to contribute to an understanding of the area and/or region and/or state's natural and cultural history?
- Representativeness: how much variability (outside and/or inside the subject area) exists, what is already conserved, how much connectivity is there?
- Rarity: is the subject area important in demonstrating a distinctive way of life, custom, process, land-use, function or design no longer practised? Is it in danger of being lost or of exceptional interest?
- Education potential: does the subject area contain teaching sites or sites that might have teaching potential?

It is important to note that heritage significance is a dynamic value.

**Table 8: Heritage significance criteria**

Criterion	Description
Social	<p>The spiritual, traditional, historical or contemporary associations and attachments the place or area has for Aboriginal people. Social or cultural value is how people express their connection with a place and the meaning that place has for them.</p> <p>Does the subject area have strong or special association with the Aboriginal community for social, cultural or spiritual reasons?</p>
Historic	<p>Historic value refers to the associations of a place with a historically important person, event, phase or activity in an Aboriginal community.</p> <p>Is the subject area important to the cultural or natural history of the local area and/or region and/or state?</p>
Scientific	<p>This refers to the importance of a landscape, area, place or object because of its rarity, representativeness and the extent to which it may contribute to further understanding and information. Information about scientific values will be gathered through any archaeological investigation undertaken.</p> <p>Does the subject area have potential to yield information that will contribute to an understanding of the cultural or natural history of the local area and/or region and/or state?</p>



Criterion	Description
Aesthetic	<p>This refers to the sensory, scenic, architectural and creative aspects of the place. It is often linked with the social values. It may consider form, scale, colour, texture and material of the fabric or landscape, and the smell and sounds associated with the place and its use.</p> <p>Is the subject area important in demonstrating aesthetic characteristics in the local area and/or region and/or state?</p>

## 8.2 Social and cultural value

The Consultation Requirements specifies that the social or cultural value of a place must be identified through consultation with Aboriginal people.

No specific areas of cultural significance were identified by RAP representatives during the field survey or test excavation program. The Aboriginal objects identified across the site however, are considered to contain cultural significance as part of a wider cultural landscape and as physical evidence of the use of the area by Aboriginal people.

## 8.3 Historic value

Historic values refer to the association of the place with aspects of Aboriginal history. Historic values are not necessarily reflected in physical objects, but may be intangible and relate to memories, stories or experiences.

While the settlement of Exeter Farm resulted in the eviction of Aboriginal people within Badgerys land there is some suggestion that Badgerys permitted small Aboriginal groups to camp along South Creek (Hardy 1989:19). This is supported by the presence of glass artefacts within the study area which demonstrate the use of the site by Aboriginal people in the post contact period. While the use of the site has not been identified as relating to specific Aboriginal person, story or memory the presence of evidence for post contact use of a site is relatively rare in the local context. Consequently, the study area is considered to contain moderate historic value.

## 8.4 Aesthetic value

Aesthetic values refer to the sensory, scenic, architectural and creative aspects of the place. These values may be related to the landscape and are often closely associated with social/cultural values.

The study area maintains aesthetic value associated with the rural undeveloped nature of the study area which exhibits a number of landscape features consistent with the precontact landscape. Of particular relevance is the western portion of the study area which affords a good outlook towards surrounding landscape features including South Creek and its tributaries. The study area is considered to contain moderate aesthetic values.

## 8.5 Scientific value

A summary of the scientific value of each archaeological site within the study area is included below and summarised in Table 9.

#### 8.5.1 Elizabeth Precinct Artefact Scatter 01 (AHIMS ID 45-5-5233)

EP AS 01 (AHIMS ID 45-5-5233) is comprised of an artefact scatter with two silcrete artefacts located within a surface exposure associated with animal grazing. The artefacts are comprised of one complete flake and one single platform core. The location of the artefact indicates that the artefact is located with an area of fill and is subsequently within a disturbed context which exhibits limited research potential. As a silcrete core and complete flake, the artefacts are considered to be a common example of the artefact type in the region and therefore exhibit low rarity values. Given the relative lack of easily identified features the artefacts are not considered to be a good example of its type. The artefacts are therefore considered to exhibit low representative values and education potential when compared to the wider region.

#### 8.5.2 Elizabeth Precinct Isolated Find 01 (AHIMS ID 45-5-5232)

EP IF 01 (AHIMS ID 45-5-5232) is comprised of an isolated silcrete artefact located within a surface exposure associated with animal grazing. The artefact is comprised of a retouched utilised piece which is considered to be moderately rare within the regional context and exhibit moderate representative values as an example of the artefact type. The artefact itself is also considered to demonstrate moderate education potential. The location of the artefact indicates that the artefact is located with an area which has been filled and is subsequently within a disturbed context which exhibits limited research potential. Given the disturbed context the artefact's research potential is considered to be limited to the value of the artefact itself and subsequently considered to be low on a regional scale.

#### 8.5.3 Elizabeth Precinct Isolated Find 02 (AHIMS ID 45-5-5231)

EP IF 02 (AHIMS ID 45-5-5231) is comprised of an isolated chert artefact located within a vehicle track exposure. The artefact has been retouched along its right, left and proximal margins and was identified as a scraper. The tertiary reduction of the artefact associated with the retouch identifies the object as requiring several steps in its production. It is considered to be moderately rare with the region and exhibit moderate representative values as an example of the artefact type. The artefact itself is also considered to demonstrate moderate education potential. The location of the artefact indicates that the artefact is located with an area which has been filled and is subsequently within a disturbed context which exhibits limited research potential.

#### 8.5.4 Elizabeth Precinct Isolated Find 03 (AHIMS ID 45-5-5230)

EP IF 03 (AHIMS ID 45-5-5230) is comprised of an isolated silcrete artefact located within a dam wall. The location of the artefact indicates that the artefact is located in a disturbed context which exhibits limited research potential. As a silcrete core the artefact is considered to be a common example of the artefact type in the region and therefore exhibits low rarity values. Given the relative lack of easily identified features the artefact is not considered to be a good example of its type. The artefact is therefore considered to exhibit low representative values and education potential when compared to the wider region.

#### 8.5.5 Elizabeth Precinct Artefact Scatter 02 (AHIMS ID 45-5-5236)

EP AS 02 (AHIMS ID 45-5-5236) is a low-density artefact scatter located across a low crest and slope landform. Artefacts associated with the site exhibit a high level of variety including a high proportion of formal tools, the use of several raw material types and heat treatment. The assemblage is considered to be highly representative of a variety of land use which is

considered to be rare in the local context. Given the variety of artefact types represented, the assemblage is considered to contain high education potential associated with the morphology of the artefact assemblage.

Glass artefacts which were worked by Aboriginal people have been identified in the test excavation assemblage. This is indicative of post-1788 Aboriginal and European contact during the early nineteenth century and is considered of high scientific significance.

The site is however considered to have been subject to disturbance associated with post-depositional processes including ploughing and orcharding. The limited site integrity reduces the research potential of the site.

#### 8.5.6 Elizabeth Precinct Isolated Find 04 (AHIMS ID 45-5-5331)

EP IF 04 (AHIMS ID 45-5-5331) is an isolated silcrete proximal flake fragment located on the surface of a moderately disturbed context. As a silcrete flake, the artefact is considered to be a common example of the artefact type in the region and therefore exhibits low rarity values. The artefact is not considered to be a good example of its type based on its lack of easily identifiable features. The artefact is therefore considered to exhibit low representative values and education potential when compared to the wider region.

#### 8.5.7 Elizabeth Precinct Isolated Find 05 (AHIMS ID 45-5-5330)

EP IF 05 (AHIMS ID 45-5-5330) is a silcrete isolated surface artefact located within an erosion scour within an existing drainage line landform. The site is considered to be subject to moderate disturbance associated with fluvial forces during rainfall events. Based on the site's location within a drainage line it is considered to contain limited research potential. As an isolated find, the site is considered to be common in the local region and contain low representative values. The artefact is not considered to be a good example of its type based on its lack of easily identifiable features. The artefact is therefore considered to exhibit low representative values and education potential when compared to the wider region.

#### 8.5.8 Elizabeth Precinct PAD 03 (AHIMS ID 45-5-5236)

Areas of PAD identified within the study area are assessed as demonstrating unknown archaeological significance. This assessment is due to the fact that these features are located in areas with limited surface visibility and the nature, extent and significance cannot be determined without further investigation. Further investigation would include archaeological test excavation in accordance with the Code of Practice. It is noted that an assessment of significance of this PAD is not included in this ACHAR as it will not be impacted and will not be subject to the AHIP.

#### 8.5.9 Elizabeth Drive AFT 1 (AHIMS ID 45-5-5259)

ED AFT 1 (AHIMS ID 45-5-5259) is a silcrete artefact scatter located within the Elizabeth Drive road corridor. The site is located within a disturbed context associated with its location within a road reserve which has been impacted by a gas main and road construction in this location. The site card suggests that several of the artefacts are associated with a knapping floor event which would be moderately representative of sites within the wider region. However, based on the disturbed nature of the site, it is considered that the artefacts contain limited research potential and education potential. Silcrete artefact scatters are common within the wider region and subsequently the site is considered to contain low rarity values.

**Table 9: Archaeological significance**

Site name/ AHIMS ID	Research potential	Representative value	Rarity	Education potential	Overall significance
<b>EP AS 01</b> (AHIMS ID 45-5-5233)	Low	Moderate	Low	Low	<b>Low</b>
<b>EP IF 01</b> (AHIMS ID 45-5-5232)	Low	Moderate	Moderate	Moderate	<b>Moderate</b>
<b>EP IF 02</b> AHIMS ID 45-5-5231)	Low	Moderate	Moderate	Moderate	<b>Moderate</b>
<b>EP IF 03</b> (AHIMS ID 45-5-5230)	Low	Low	Low	Low	<b>Low</b>
<b>EP AS 02</b> (AHIMS ID 45-5-5236)	Moderate	High	High	High	<b>High</b>
<b>EP IF 04</b> AHIMS ID 45-5-5331)	Low	Low	Low	Low	<b>Low</b>
<b>EP IF 05</b> (AHIMS ID 45-5-5330)	Low	Low	Low	Low	<b>Low</b>
<b>EP PAD 03</b> (AHIMS ID 45-5-5236)	Moderate	Unknown	Unknown	Unknown	<b>Unknown</b>
<b>ED AFT 1</b> (AHIMS ID 45-5-5259)	Low	Moderate	Low	Low	<b>Low</b>

## 8.6 Statement of significance

The study area contains sites which range from low to high scientific significance. All Aboriginal sites within the study area are considered to be of social and cultural significance to the Aboriginal community as part of an increasingly rare resource which provides a tangible connection to past Aboriginal use of the land. While the presence of glass artefacts demonstrate that the study area was associated with Aboriginal use in the post contact period these artefacts cannot directly associate the site with specific historical events, activities or people. Consequently, the study area is considered to contain moderate historic value. The study area maintains aesthetic value associated with the rural undeveloped nature of the study area which exhibits a number of landscape features consistent with the precontact landscape. Of particular relevance is the western portion of the study area which affords a good outlook towards surrounding landscape features including South Creek and its tributaries. The study area is considered to contain moderate aesthetic values.



## 9.0 IMPACT ASSESSMENT AND HERITAGE MANAGEMENT

### 9.1 Proposed works

This proposal seeks approval for a Waste Disposal Facility at 1669-1732 Elizabeth Drive, Badgerys Creek, for the disposal of clean waste spoil material resulting from the construction of nearby CSSI and development projects.

The site is zoned RU2 – Rural Landscape and E2 – Environmental Conservation noting works are occurring within the RU2 Rural Landscape zone only, under the Penrith LEP 2010.

The proposed development seeks approval for a Waste Disposal Facility including, though not limited to, the following:

- The demolition and removal of existing rural structures;
- Termination, connection or augmentation of services and utilities in the site;
- Dewatering and decommissioning of existing farm dams;
- Clearing of existing vegetation on the subject site;
- The importation, placement and compaction of clean waste spoil material;
- Ancillary onsite earthworks associated with the waste disposal facility; and,
- Construction of stormwater, erosion and sediment control systems.

Overall, the bulk of the landform in the study area would be heavily modified to provide adequate ground for the construction of the waste disposal facility. The majority of the study area would be subject to varied levels of cut and fill, as illustrated in Figure 12.

Stage 1 would not involve any works within the E2 Environmental Conservation Area within the flood terrace of South Creek on the property. EP PAD 03 is located within this area and would not be impacted by the proposed works. Future development stages for the Elizabeth Precinct project which would involve works in this area would be subject to separate cultural heritage assessment and approvals as required.

### 9.2 Impact of the proposed works

Bulk earthworks across the study area would result in total removal or modification of the ground except for ground within the 1:100 year flood zone, designated as an E2 Environmental Conservation Area. This would result in the total removal of all identified Aboriginal sites within the study area except for EP PAD 03 which is located within this flood zone.

One site (ED AFT 1, AHIMS ID 45-5-5259) was identified directly adjacent to the study area. The site is located within an earthen embankment within the Elizabeth Drive road corridor. Based on the proposed design it is understood that the earthen batters associated with the proposed cut fill works will not extend past the existing lot boundaries and subsequently will not result in the deposition of fill across this site. The current ACHAR provides recommendations to ensure that inadvertent impact does not occur to the site during construction works. Similarly, while the proposed development may result in changes to the existing rain run off patterns which may dislodge surface artefacts, the thick grasses and scattered trees within the earthen embankment are considered to limit the potential for increased runoff or vibration to impact the site.

A summary of the impacts to identified Aboriginal sites is outlined in Table 10. The location of Aboriginal sites in relation to the extent of landscape modification work is illustrated in Figure 13.

**Table 10: Summary of Impacts to identified Aboriginal sites in and near the study area**

Site name (AHIMS ID)	Type of harm	Degree of harm	Consequence of harm
<b>EP AS 01</b> (AHIMS ID 45-5-5233)	Direct	Total	Total loss of value
<b>EP IF 01</b> (AHIMS ID 45-5-5232)	Direct	Total	Total loss of value
<b>EP IF 02</b> (AHIMS ID 45-5-5231)	Direct	Total	Total loss of value
<b>EP IF 03</b> (AHIMS ID 45-5-5230)	Direct	Total	Total loss of value
<b>EP AS 02</b> (AHIMS ID 45-5-5236)	Direct	Total	Total loss of value
<b>EP IF 04</b> (AHIMS ID 45-5-5331)	Direct	Total	Total loss of value
<b>EP IF 05</b> (AHIMS ID 45-5-5330)	Direct	Total	Total loss of value
<b>EP PAD 03</b> (AHIMS ID 45-5-5236)	None	None	No loss of value
<b>ED AFT 1</b> (AHIMS ID 45-5-5259)	None	None	No loss of value

### 9.3 Cumulative impacts

Badgerys Creek is subject to several large development projects which will result in a substantial cumulative impact to the Aboriginal cultural heritage of the region.

The Western Sydney International Airport site at Badgerys Creek extends over approximately 1700 hectares with adjacent lands progressively scheduled for resumption and development over the next 50 years. At least 70 Aboriginal sites have been identified across the airport site with additional heritage investigation identifying additional Aboriginal objects as part of project mitigation measures (Navin Officer 2016). While effort has been made to preserve sites through environmental conservation areas and movement of topsoil it is expected that a large portion of these sites will be impacted or relocated as part of construction.

Options assessment of the proposed M12 route resulted in the identification of a number of surface and subsurface sites through a combination of survey and test excavation. A total of 19 Aboriginal sites are located within the construction footprint and will be subject to impact as part of the program including several sites to the north of the current study area (Jacobs 2019).

The Elizabeth Precinct proposal will result in impact to a further six surface and one subsurface site within the wider Badgerys Creek region. While resulting in a comparatively small cumulative impact when compared to the impacts of the Badgerys Creek airport site and the M12 project,

the increase with never-the-less result in an increase to the cumulative destruction of Aboriginal cultural heritage in the region.

**Figure 12: Summary of proposed cut and fill across study area**

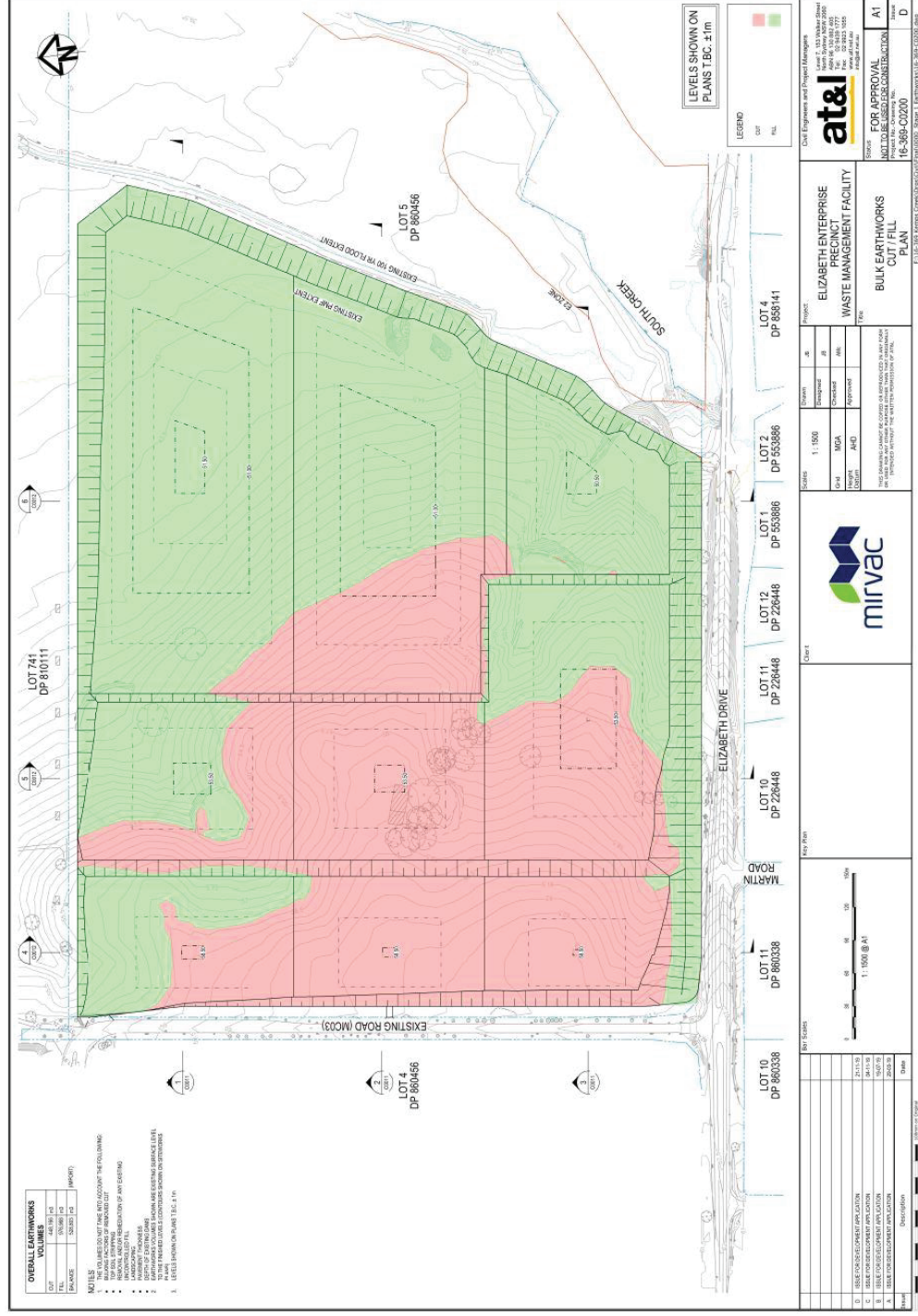
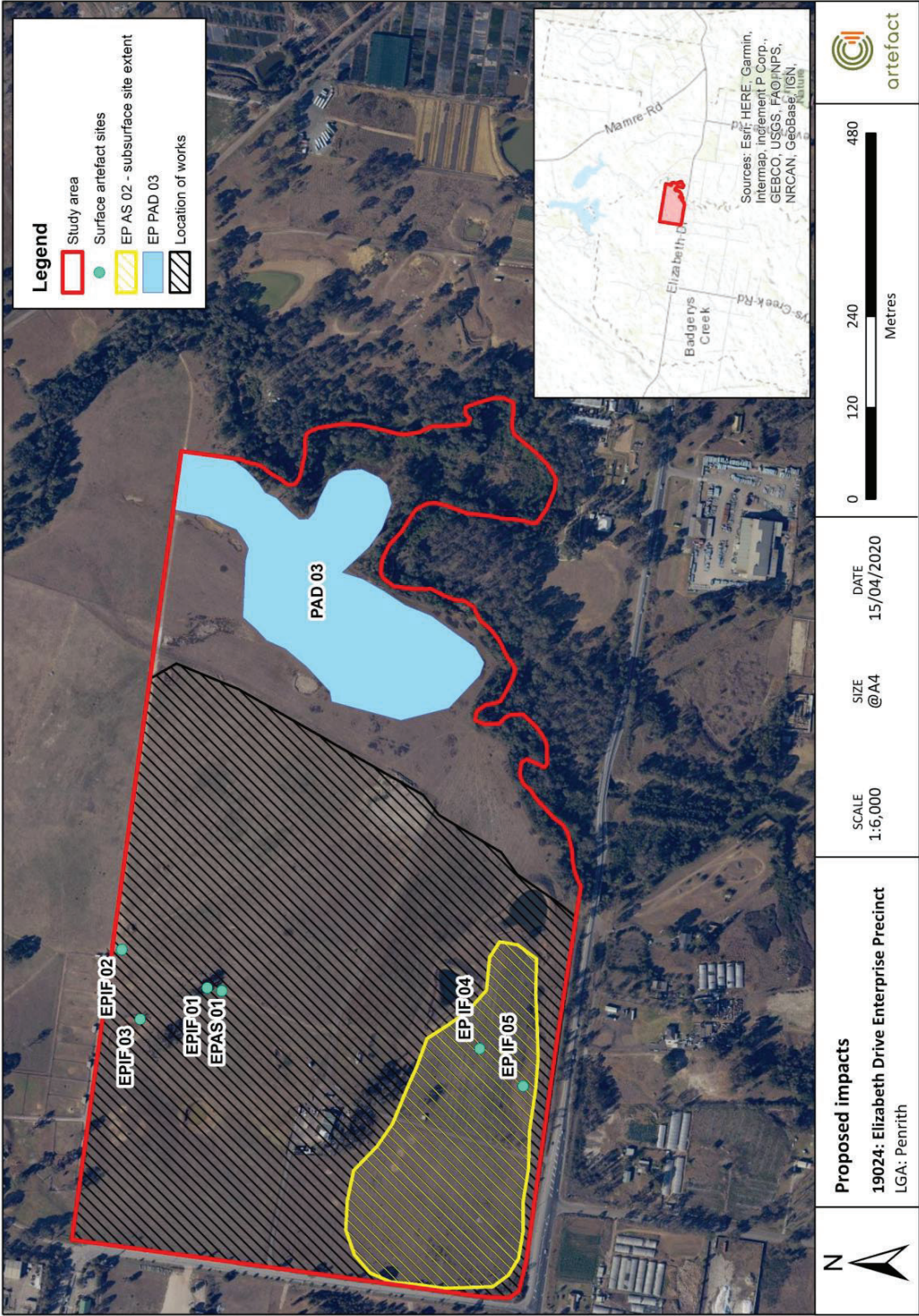




Figure 13: Location of proposed works and identified Aboriginal sites in the study area





## 9.4 Ecologically Sustainable Development principles

In accordance with the ACHAR Guide, ESD principles have been considered in preparation of this ACHAR, including options to avoid impacts to Aboriginal cultural heritage, assessment of unavoidable impacts, identification of mitigation and management measures, and taking account of Aboriginal community views. The principles of ESD are detailed in the NSW *Protection of the Environment Administration Act 1991*. ESD principles relevant to the assessment of the project as it relates to Aboriginal cultural heritage are considered below.

### 9.4.1 The integration principle

Decision-making processes should effectively integrate both long term and short term economic, environmental, social and equitable considerations (the 'integration principle'). The ASR, ATER and this ACHAR demonstrate regard for the integration principle by considering Aboriginal heritage values and impacts from the project during the planning phase of the project.

### 9.4.2 The precautionary principle

If there are threats of serious or irreversible environmental damage, lack of full scientific confidence should not be used as a reason for postponing measures to prevent environmental degradation (the 'precautionary principle').

Three areas of PAD were identified during the archaeological survey for the project. In order to ameliorate the uncertainty associated with the area of archaeological potential, archaeological test excavations have been conducted. The combination of predictive models and the results of the test excavation have been used to assess the probable nature of the archaeological record within the study area.

To ensure full scientific confidence and retrieve a sample of the identified archaeological resource prior to impacts, targeted salvage is recommended within EP AS 02. This excavation would provide better scientific confidence and contribute to the archaeological record providing information regarding land use, task specialisation and resource gathering strategies of Aboriginal people over a potentially long timespan.

### 9.4.3 The principle of intergenerational equity

The present generation should ensure that the health, diversity and productivity of the environment is maintained or enhanced for the benefit of future generations (the 'principle of intergenerational equity').

The design of the waste management facility minimises impacts to the environment through the retention of land within the 1:100 year flood level. The retention of this area preserves this existing flora and faunal habitats associated with south creek as well as the site extent of EP PAD 03.

Further archaeological investigations through salvage excavations have been recommended in order to mitigate against impacts to the remaining sites within the study area provide further information about the variance in Aboriginal land use across varied landscapes in the Badgerys Creek region.

## 9.5 Management and mitigation measures

### 9.5.1 Introduction

The overall guiding principle for cultural heritage management is that where possible Aboriginal heritage should be conserved. If conservation is not practical, measures should be taken to mitigate against impacts to Aboriginal sites. The nature of the mitigation measures recommended is primarily based on an assessment of archaeological significance.

Where unavoidable impacts occur, measures to mitigate and manage impacts are then proposed. Mitigation measures are employed to preserve the heritage values of sites beyond the physical existence of the site. The most common mitigation measures involve

- detailed recording of Aboriginal objects
- archaeological salvage excavations
- artefact analysis and, where appropriate
- reburial of Aboriginal objects in a location determined by the RAPs.

Mitigation measures vary depending on the assessment of archaeological significance of a particular Aboriginal site and are based on its research potential, rarity, representativeness and educational value. In general, the significance of a site would influence the choice of preferred conservation outcomes and appropriate mitigation measures, usually on the following basis:

- **Low archaeological significance** - Conservation where possible, but usually no mitigation required if impacts are unavoidable.
- **Moderate archaeological significance** - Conservation where possible. If conservation is not practicable, salvage excavations or similar mechanisms determined in consultation with the Aboriginal community may be necessary.
- **High archaeological significance** - conservation as a priority. Only if all practicable alternatives have been exhausted would impacts be considered justified. Comprehensive salvage excavations may be necessary.

### 9.5.2 Options to avoid and reduce impact

It is considered unlikely that localised portions of the study area could be preserved based on the requirement for substantial cut and fill works to level the site for the proposed works.

The proposed stage 1 works however, do not include impact to land within the 1:100 flood boundary including the site extent of Elizabeth Precinct PAD 03 resulting in the preservation of one identified site across the study area.

### 9.5.3 Aboriginal Heritage Impact Permit

An area based AHIP must be obtained for the works area prior to the commencement of any ground disturbance construction activities. Only those areas indicated in the proposed cut-and-fill landscaping zone in the study area would be included in the AHIP. The proposed AHIP application area is shown in Figure 14.

It is suggested that the AHIP permit is valid for 10 years in order to cover all construction works. Prior to the commencement of works, all surface artefacts would be collected, and all exclusion

zones established around Aboriginal sites within and near the study area which would be preserved.

It is intended that site establishment works, such as establishment of construction compound locations, construction site fencing, laydown and stockpiling, and no-harm areas around retention areas and exclusion zones, would take place concurrently with the proposed archaeological salvage excavation. Site establishment works would not be conducted in the area of EP AS 2 prior to the completion of archaeological salvage excavation.

#### 9.5.4 Archaeological salvage excavation

Archaeological salvage excavations of EP AS 02 (AHIMS ID 45-5-5236) and surface collection of the identified surface sites are recommended mitigation measures for inclusion as conditions of the AHIP. The salvage excavation would be conducted in accordance with the salvage excavation methodology outlined in Section 10.0 and would target those portions of EP AS 02 (AHIMS ID 45-5-5236) which identified high density concentrations of artefacts during test excavation.

#### 9.5.5 Surface collection of artefacts

The following surface artefact sites would be collected under an approved AHIP and prior to the commencement of any ground disturbing works in the study area:

- EP AS 01 (AHIMS ID 45-5-5233)
- EP IF 01 (AHIMS ID 45-5-5232)
- EP IF 02 AHIMS ID 45-5-5231)
- EP IF 03 (AHIMS ID 45-5-5230)
- EP IF 04 (AHIMS ID 45-5-5331)
- EP IF 05 (AHIMS ID 45-5-5330)

The methodology for surface collection of artefacts is described in Section 10.5.

#### 9.5.6 Site conservation

Prior to the commencement of ground disturbing works, an exclusion zone would be established around the boundary of site EP PAD 03. The boundary of this site would be marked on construction and environmental site plans, and barrier fencing established outside of the perimeter of the area of PAD to prevent inadvertent access or impact.

The current assessment has identified that ED AFT 1 (AHIMS ID 45-5-5259) is located approximately 2 metres south of the property boundary. While it would not be impacted by the proposed works, the proximity of the site to the proposed works boundary and as such is at risk of inadvertent impact.

The location of ED AFT 1 should be recorded on construction drawings and barrier fencing placed along the southern lot boundary of the proposed works to ensure that the site is not subject to impact during construction works.

#### 9.5.7 Changes to the project

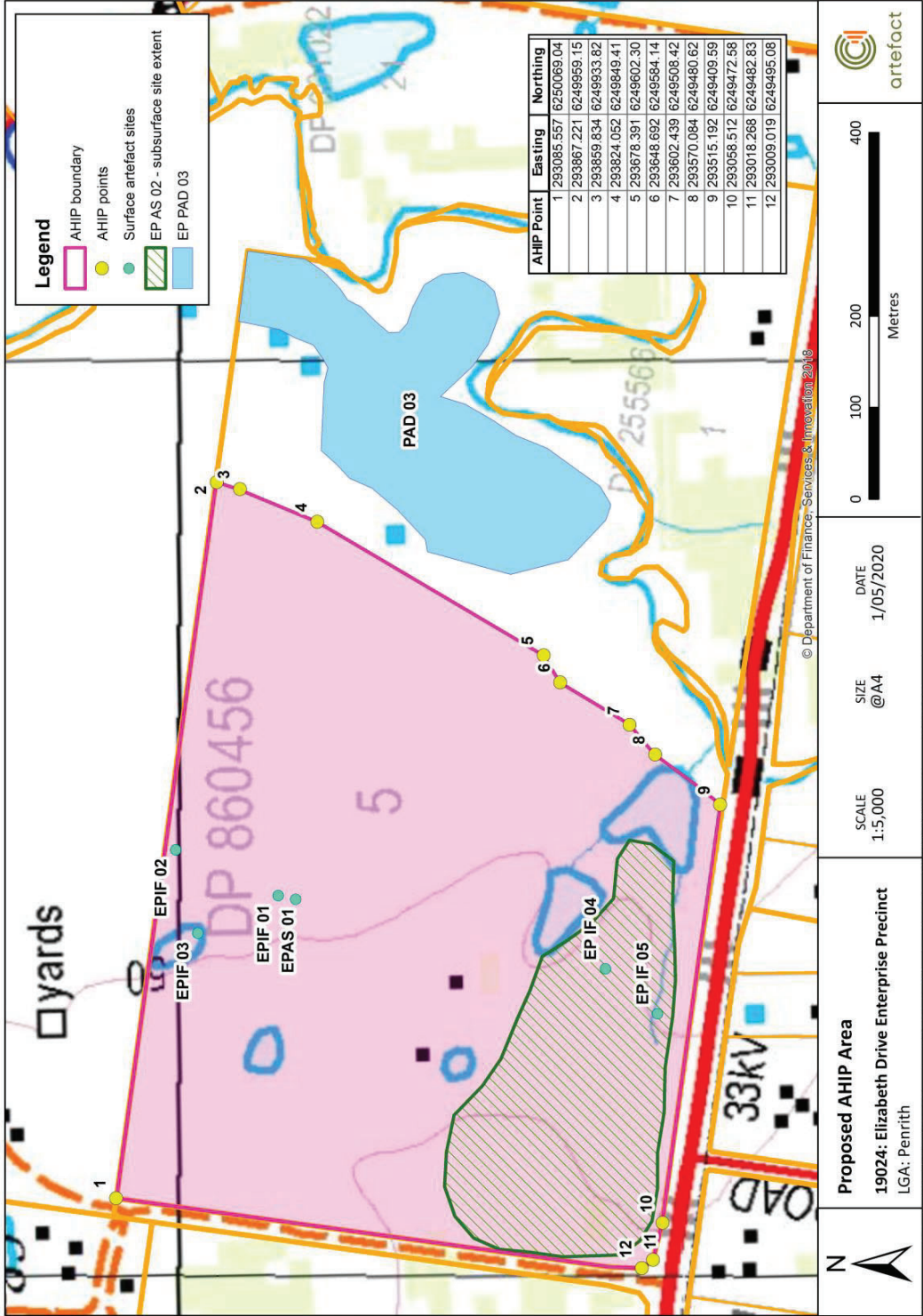
This ACHAR is based upon the most recent information made available to Artefact as of the date of preparation of this report. Any changes to the project during detailed design that will result in an increase in impact will need to be assessed by an archaeologist in consultation with the registered Aboriginal stakeholder groups. These changes may result in either a variation to the AHIP or application for a new AHIP.

Any changes that may impact Aboriginal sites not assessed during the current study may warrant further investigation and result in changes to the recommended management and mitigation measures.

#### 9.5.8 Ongoing consultation with Aboriginal stakeholder groups

Consultation with the RAPs would continue throughout the life of the project, as necessary. Ongoing consultation with the RAPs will take place where required, namely regarding the reburial of retrieved artefacts and in the event of any unexpected Aboriginal objects being identified during works. Considerations for the long-term care of collected and excavated Aboriginal tools are outlined in Section 10.6.

Figure 14: Proposed AHIP boundary





## 10.0 SALVAGE METHODOLOGY

### 10.1 Salvage excavation justification

Archaeological test excavation completed in March 2020 identified that two areas of PAD (EP PAD 01 and EP PAD 02) are considered one overall subsurface artefact scatter site, named EP AS 02. Two areas of artefact concentration were identified within this larger artefact scatter site, one associated with a high-density of artefacts in a single excavation area (EP 1 X1120 Y1060) and another area where two excavation pits (EP 2 X2180 Y2090 and X2210 Y2090) identified glass artefacts likely worked by Aboriginal people.

Construction of the project will have a direct impact on several sites in the Elizabeth Precinct study area, including the entirety of EP AS 02 (AHIMS ID 45-5-5236). This site has been assessed as being of high significance and further archaeological salvage excavation, conducted in accordance with an approved AHIP, is proposed to investigate this site.

The first artefact concentration area associated with test pit EP 1 X1120 Y1060 is considered significant for the high density of stone artefacts, including formal tools and artefacts from several knapping reduction phases. While the local ground conditions indicate that a proportion of these artefacts may have accumulated in the area of the test pit due to post-depositional processes (associated with a localised topographic depression), possible artefact inflows have been characterised as a low energy transport and are expected to have been moved into this location only a short distance through water flows and agricultural ploughing. As such, it is inferred that these artefacts may have been worked and deposited in an area near to test pit EP 1 X1120 Y1060. Archaeological salvage of this artefact concentration would aim to identify the wider spatial patterning of deposited artefacts with the aim of identifying spatially intact knapping floors or evidence of discrete occupation events at the site.

The second artefact concentration area identified Aboriginal glass artefacts in two test pits (EP 2 X2180 Y2090 and X2210 Y2090) situated 30 m apart, at the eastern end of a spur line that overlooks South Creek and the lower creek terrace flood plain. Aboriginal glass artefacts are rare archaeological resources and are indicative of post-1788 interaction between Aboriginal people and European settlers. Archaeological salvage of this area would aim to locate further Aboriginal glass artefacts and identify the area in which they may have been worked.

### 10.2 Research questions

The research questions are designed to focus the field work and analysis on particular aspects of archaeological investigation and therefore maximise the research value gained from the non-renewable resource of the archaeological record.

#### **Question 1: Can salvage excavation identify the spatial extent of identified artefact concentration deposits**

The study area at the Elizabeth Precinct site has been extensively farmed since the early nineteenth century. Ploughing and planting activities have repeatedly modified the soil, with ample evidence of soil mixing and vertical movement of soil horizons identified during the test excavation program. The precise extent of horizontal soil movement is less well known, and the presence of discrete areas of concentrated artefacts implies that some degree of spatial integrity of artefact distribution exists. Salvage excavation would aim to define outer boundaries of the areas of artefact concentrations in order to attempt to correlate the deposition of artefacts with human occupation in that area.

**Question 2: Is there evidence of *in situ* single or overlapping knapping events?**

Whilst the test excavations identified a dense concentration of artefacts at EP 1 X1120 Y1060 there was no evidence of a single or overlapping knapping events taking place. Therefore, one of the aims of the salvage program would be to further excavate the areas around EP 1 X1120 Y1060 to identify any whether the artefacts retrieved could have resulted from one or more knapping events. This would include further investigation of possible artefact use and manufacturing activities identified during analysis of the test excavation assemblage.

This information may include data on depth of retrieved artefacts, differences in raw material, differing treatment of the raw material (i.e. heat treatment), and conjoin analysis. This information would be discussed in the context of previous predictive models for the distribution of archaeological material in the local and regional context.

**Question 3: Is there further evidence of contact sites which could provide information on interaction between Aboriginal people and early European settlers?**

Glass artefacts identified at the Elizabeth Precinct site have been knapped into formal stone tools and were made of early nineteenth century bottle glass. While it is known that Aboriginal people camped on Badgery's property following the appropriation of their land, direct evidence of this through glass artefactual material is comparatively rare. Should a larger assemblage of glass artefacts or repurposed European material be identified in the area near the original artefact concentrations, information regarding tool use, material selection and Aboriginal and European contact may be discernible.

**Question 4: Do recovered artefacts provide microscopic evidence of manufacture and use?**

Should artefacts be identified during manual ground excavation, opportunities to collect them without sieving exist, which would ensure that potential residues of plant material from their original use may be retained. Collection of artefacts *in situ* during excavation also limits the degree of handling on artefacts, which can allow microscopic examination of surface damage to be analysed to infer past working practices.

Use-wear and residue studies of suitably sampled stone tools may allow correlations between artefact morphologies and specific uses for these tools. These analyses may have the capacity to provide corroboration to theoretical models of tool use and human occupation at the Elizabeth Precinct site.

**Question 5: How do the results of the test and salvage excavations compare to the results of other sub-surface investigations in the regional context?**

Test and salvage excavation programs have been conducted at the Western Sydney International Airport site directly to the south of the study area, as well as across the Bringelly and Badgerys Creek regions in general. While these sites are located within similar undulating plain landform contexts, artefact assemblages show a high degree of diversity. Opportunities to compare and contrast excavation and artefactual information between the Elizabeth Precinct site and nearby sites would occur.

The results of test excavation would be discussed in relation to the findings of previous sub-surface investigations in the region. Comparative information would include intactness of deposit, degree of truncation, and nature and frequency of retrieved Aboriginal objects.

**Question 6: What information can the retrieved assemblage provide on land-use patterns in the local context?**

The comparative results of test excavation and the results of other sub-surface investigations in the area would be discussed in terms of Aboriginal land-use strategies of the local region. This would include a discussion of raw material conservation techniques, artefact types and size and weight characteristics of the assemblage.

### 10.3 Participation in archaeological salvage

RAPs would be invited to participate in all Aboriginal archaeological excavations. This salvage methodology has been provided to RAPs for review prior to the AHIP application being submitted.

### 10.4 Excavation approach and methodology

The salvage excavation would be conducted in two stages. Stage I would aim to identify the general spatial distribution of identified artefact concentrations. Stage II would progressively expand excavation areas dug in Stage I to capture the full extent of these artefact concentrations of assessment and analysis.

#### 10.4.1 Stage I

The aim of the Stage I excavation would be to further delineate the geographic expanse of the artefact concentrations identified around the 1x1 m expansion of X1120 Y1060 as well as the high density identified in excavation units X2180 Y2090 and X2210 Y 2090. As the high-density concentrations were investigated to different degrees during the test excavation, stage I investigation methods have been developed specifically for each concentration.

##### **EP 1 X1120 Y1060**

Artefact concentrations identified in EP 1 X1120 Y1060 were assessed to have been the result of a localised wash in a shallow depression on the upper slope of the landform. Initial excavation would aim to identify the extent of this localised concentration and would involve the excavation of a grid of three by three 1x1 m units surrounding the original test pit EP 1 X1120 Y1060 (for a total of 8 excavation units).

To confirm whether artefactual materials were horizontally redeposited from nearby higher slopes, excavation would also involve the placement of at least four 1x1 m units located at cardinal points (north, south, east, west etc). As test excavation included the excavation of an excavation unit 15 m from the high concentration which was archaeologically sterile, the Stage I pits would be placed 5 m from X1120 Y1060, with the spacing determined by the excavation supervisor in consultation with the RAPs in the field.

##### **EP 2 X2180 Y2090 and X2210 Y2090**

Excavation would involve the placement of additional 1x1 m units along the Y2090 east-to-west transect with a 10 m spacing resulting in an alignment of 6 units along the transect. This would be inclusive of the test excavation units which would be expanded to 1m<sup>2</sup> to be consistent with the remaining pits.

An additional transect of four units would be placed 10m north and south of four interior units of the initial transect (see Figure 15). It is intended that units will be offset from the established grid

when site conditions preclude the placement of the units along the established transects. Units offsets as required will be determined by the excavation supervisor in consultation with the RAPs in the field.

#### 10.4.2 Stage II

The decision to expand hand excavation pits (Stage II) would be made by the excavation supervisor in consultation with the RAPs on site with regard to the following 'triggers' identified during Stage I:

- Relative density of artefacts retrieved during Stage I excavation
- Presence of knapped late-18<sup>th</sup> or early 19<sup>th</sup> century material
- Rare or unusual artefact types
- Unusual raw material types and changes in raw material types
- Archaeological features such as hearths and/or middens
- Cultural material with potential for scientific dating
- Highly stratified deposits
- Any other features identified by the supervising archaeologist and Aboriginal stakeholder representatives.

Open area excavations would be conducted around at least one Stage I pit in each area, based on the archaeological 'triggers' outlined above. Depending on the results of Stage I, further pits may be selected for expansion into an open area excavation.

An indicative total of 32 m<sup>2</sup> would be allocated for Stage II excavation, however this number may vary either upwards or downwards depending on the continued justification for open area excavation using the triggers outlined for Stage II excavation. As a minimum, a Stage I pit from each test area would be expanded into a 3 m<sup>2</sup> open area excavation. The remainder may be allocated to additional open area excavation or to the expansion of the initial open area test pit.

The total number and areal extent of Stage II open area excavation would be decided by the site supervisor in consultation with the RAPs on site and would depend upon the identification of triggers outlined above.

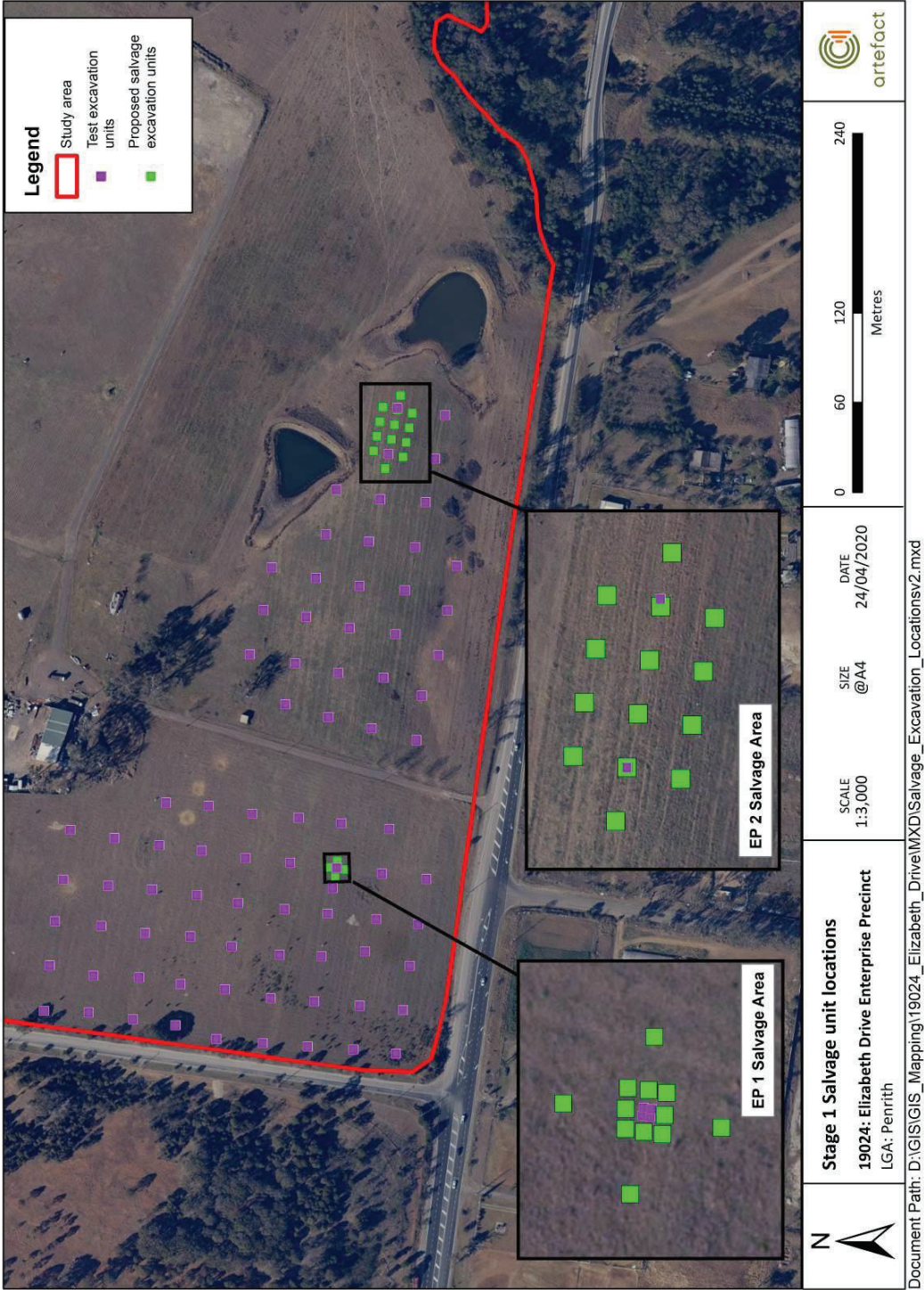
#### 10.4.3 Excavation unit

All excavation units would be 1 m by 1 m in size and orientated to cardinal points. All excavation units would be dug with hand tools. All excavation units would be excavated according to stratigraphic unit where practicable, or 10 cm arbitrary spits where defined stratigraphic units are absent. In the absence of stratigraphic changes, excavating in spits provides vertical control of the excavation.

Excavation would continue for each excavation unit until a culturally sterile layer was reached (in this case, basal Wianamatta clay), but would not exceed a maximum depth of 1.5 m for safety reasons. All excavation unit lower horizons and vertical excavation walls would be trowel cleaned to remove all loose soil.



Figure 15: Indicative location of Stage 1 salvage pits





#### 10.4.4 Excavation recording

All excavated squares would be recorded in detail including photographs, level readings, plans and context sheets. Stratigraphic sections detailing the stratigraphy and features within the excavated deposit would also be drawn.

#### 10.4.5 Sieving

All material recovered from excavation would be sieved through a 3 mm sieve mesh. Due to the high clay fraction of the soil, all material would be wet sieved wherever possible.

Artefacts identified during manual excavation would not be wet sieved if they are selected for inclusion in future residue or use-wear analysis (see Section 10.4.6 below).

#### 10.4.6 Residue and use-wear analysis

Special attention would be given for recovering artefacts *in situ* during manual excavation. Artefacts which are identified during manual digging could be bagged individually, with adhering soil material (i.e. not dry cleaned or scrubbed) into double re-sealable specimen bags. Artefacts which would be selected for potential residue analysis would be at the discretion of the excavation supervisor.

Artefacts which were recovered from after wet sieving would not be sampled for residue analysis due to contamination concerns and the likelihood that water would have damaged or removed adhering sediments.

During post-excavation analysis, the excavation supervisor would select artefacts to be sampled for microscopic use-wear analysis, in coordination with the artefact analyst. Preference would be given to undertake use-wear analysis of those artefacts which were collected *in situ* with adhering sediment (and potential residue).

Residue and use-wear studies, should they be conducted, would be provided to external expert consultants for analysis.

#### 10.4.7 Procedure for the discovery of human remains

Where suspected human remains are identified during salvage excavation or construction works, all work in that area will cease and the area cordoned off. Where it is unclear whether the remains are human, a specialist, such as a physical anthropologist, will be called to site to confirm. Where it is either clear that the remains are human, or it has been confirmed by a specialist, the NSW Police and the Environment Line (131 555) will then be notified.

Work will not recommence in the area where skeletal remains have been identified until such time as the relevant approval has been granted.

#### 10.4.8 Reporting and Aboriginal objects

All Aboriginal objects retrieved during the course of salvage excavation would be washed and placed in re-sealable bags for further analysis and recording. Once salvage excavation has been completed, the artefact assemblage would be recorded and stored as stipulated in the Code of Practice as best practice. This includes recording key attributes of material, artefact

type, platform type, termination type and dimensions, as well as photographic and drawn records of representative artefacts.

All recorded information would be entered into a Microsoft Excel spreadsheet with detail linked to the provenance of each artefact. Once entered into the spreadsheet, the data can be readily supplied with the salvage excavation report to DPIE and the RAPs in either electronic or hard-copy form. An archaeologist experienced in stone artefact recording would conduct the attribute recording and analysis.

All artefacts would be given a unique number and stored in double re-sealable specimen bags. A permanent marker would be used to record the provenance and unique number of artefacts in each bag in writing on the outside of the bag and on an archival grade tag. An Aboriginal Site Impact Recording Form should be submitted to the AHIMS Registrar detailing the procedure and results of the salvage program

## 10.5 Surface collection methodology

In order to further mitigate the Aboriginal heritage impact of the proposed development, it is recommended to undertake collection of surface artefacts from all surface sites within the proposed AHIP boundary. This includes the following sites:

- EP AS 01 (AHIMS ID 45-5-5233)
- EP IF 01 (AHIMS ID 45-5-5232)
- EP IF 02 (AHIMS ID 45-5-5231)
- EP IF 03 (AHIMS ID 45-5-5230)
- EP IF 04 (AHIMS ID 45-5-5331)
- EP IF 05 (AHIMS ID 45-5-5330)

Surface collection will be undertaken using the following method:

- Artefact collection will be undertaken by a team comprising an archaeologist and RAP representatives
- Artefact locations will be marked on the ground and recorded with a hand-held non-differential GPS prior to collection
- Collected artefacts will be catalogued on site by the team, with recorded attributes as listed for the test and salvage excavation analysis
- Artefacts will be labelled and bagged according to site, and then managed along with the assemblage recovered from the test and salvage excavation
- A short report will be completed, analysing the results of the surface collection with those of the test excavation and salvage excavation, in particular with regard to artefact density and distribution, and the character of the assemblage
- An Aboriginal Site Information Recording Form (ASIRF) would be submitted for all sites subject to surface collection.

## 10.6 Temporary and long-term care and management of retrieved Aboriginal objects

The temporary repository of any retrieved artefacts will be in a locked cupboard on the premises of the archaeological consultant. This location would be specified in the approved AHIP.

Long term management of the Aboriginal objects would involve the reburial of the artefact assemblage within the environmental protection area in the eastern portion of the study area. The reburial location will be located outside of the proposed works area and outside of the proposed AHIP area.

As this area is outside the proposed AHIP area, reburial will be undertaken outside the registered site extent of all identified Aboriginal sites including EP PAD 03 (AHIMS ID 45-5-5234). Artefacts will be reburied in the location identified in Figure 16.

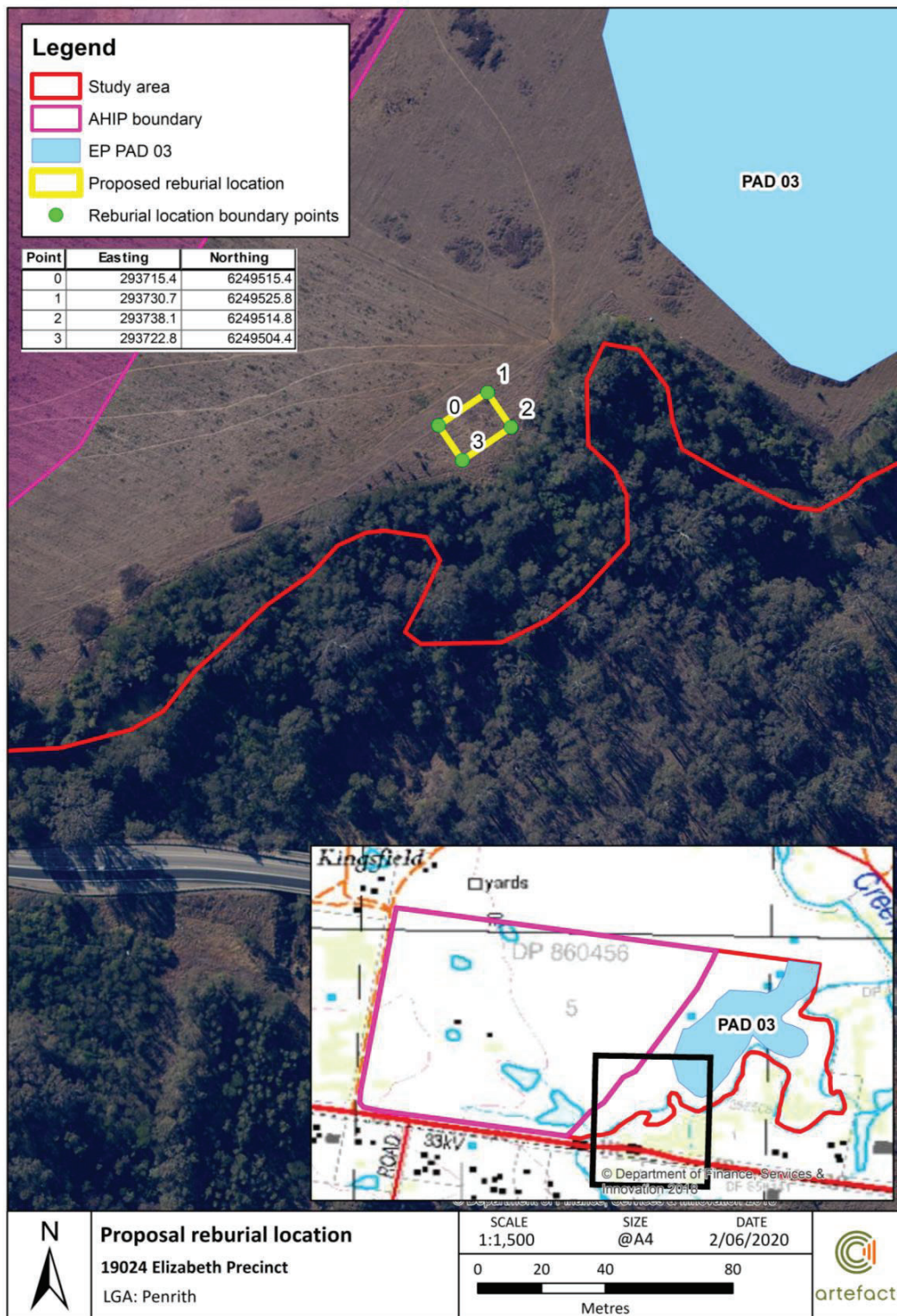
Reburial will be undertaken in accordance with the Requirement 26 of the Code of Practice (DECCW 2010).

The reburial will be undertaken using the following method:

- In preparation for reburial, artefacts will be placed in resealable bags labelled with excavation unit and artefact number information. Excavation unit and artefact number information will also be recorded on an archival standard label in each resealable bag.
- Copies of documentation related to the project will also be prepared for reburial including:
  - The artefact catalogue
  - A copy of the ACHAR, ATER, ASR and short report completed following surface collection
  - Copies of site cards and ASIRFs submitted to the AHIMS database following test excavation, salvage excavation and surface collection for each site
  - A copy of the AHIP
- Artefacts and reburial documentation will be sealed in an impervious container which will be labelled with permanent marker or engraved
- Reburial will be undertaken by a team comprising of an archaeologist and RAP representatives
- The reburial location will be recorded using a non-differential GPS with burial site features including burial depth, location in relation to other permanent features and a photographic record maintained of the reburial.

Following reburial, a site card will be submitted for the reburial location with ASIRFs submitted for all sites which have had Aboriginal objects reburied.

Figure 16: Proposed reburial location



## 11.0 RECOMMENDATIONS

The following recommendations are based on consideration of:

- Statutory requirements under the NPW Act
- The results of the ASR, ATER and the ACHAR
- The interests of the Aboriginal stakeholder groups
- The likely impacts of the project.

It was found that:

- A total of eight Aboriginal sites have been identified within the study area, comprised of one subsurface artefact site, six surface artefact sites and one area of PAD
  - Elizabeth Precinct Artefact Scatter 02 (EP AS 02 - AHIMS ID 45-5-5236) has been assessed as demonstrating high archaeological significance
  - Elizabeth Precinct Isolated Find 01 (EP IF 01 - AHIMS ID 45-5-5232) and Elizabeth Precinct Isolated Find 02 (EP IF 02 - AHIMS ID 45-5-5231) have been identified as demonstrating moderate archaeological significance
  - Elizabeth Precinct Artefact Scatter 01 (EP AS 01 - AHIMS ID 45-5-5233), Elizabeth Precinct Isolated Find 03 (EP IF 03 - AHIMS ID 45-5-5230), Elizabeth Precinct Isolated Find 04 (EP IF 04 - AHIMS ID 45-5-5331) and Elizabeth Precinct Isolated Find 05 (EP IF 05 - AHIMS ID 45-5-5330) have been identified as demonstrating low archaeological significance
  - Elizabeth Precinct PAD 03 (EP PAD 03 - AHIMS ID 45-5-5234) is outside of the impact area and no archaeological test excavation at this site was conducted for this assessment. This area of PAD is considered to contain unknown significance
- The proposed works will impact the following identified sites:
  - EP AS 01
  - EP AS 02
  - EP IF 01
  - EP IF 02
  - EP IF 03
  - EP IF 04
  - EP IF 05
- One site, Elizabeth Drive AFT 1 (ED AFT 1) (AHIMS ID 45-5-5259) is located 2 metres to the south of the southern boundary of the study area. This site will not be impacted by the proposed works.

The following recommendations are made:

- An AHIP application to impact Aboriginal sites must be lodged with DPIE for the proposed development. No works that impact the ground surface should be undertaken within the study area until an AHIP has been issued.



- It is recommended that salvage excavation of EP AS 02 is undertaken as a condition of the AHIP in order to mitigate impacts. Salvage excavation should be undertaken in accordance with the salvage methodology outlined in Section 10.0 of the ACHAR.
- The following surface artefact sites should be subject to artefact collection prior to the commencement of ground disturbing works:
  - EP AS 01
  - EP IF 01
  - EP IF 02
  - EP IF 03
  - EP IF 04
  - EP IF 05
- While no works would occur in the vicinity of EP PAD 03, an exclusion zone should be established around the outer perimeter of the area of PAD to prevent inadvertent impact.
- The location ED AFT 1 should be recorded on construction drawings and the location marked during construction to ensure that it is not subject to impacts during construction works. An exclusion zone should be established around this site within the property boundary prior to the commencement of works.
- Following completion of archaeological investigation, analysis and reporting, artefacts retrieved from the salvage excavation, test excavation and surface collection should be reburied in accordance with the reburial methodology provided in the Section 10.6 of the ACHAR.

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Department of Environment, Climate Change and Water [now DPIE] 2010a. *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales*.

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## 13.0 APPENDICES

### Appendix 1: Consultation Log



## Appendix 2: Elizabeth Enterprise Precinct Stage 1 ASR, Artefact Heritage (2019a)

### Appendix 3: Elizabeth Enterprise Precinct Stage 1, ATER, Artefact Heritage (2020a)

## Consultation Log

Contact	Organisation	Contacted by	Organisation	Method	Date	Comment/ response
<b>AGENCY LETTERS 4.1.2 NOTIFICATION</b>						
	National Native Title Tribunal	A Darby	Artefact	Email	18/04/2019	Agency letter requesting names of potentially interested parties, requested feedback by 10 May 2019
	NTS Corp	A Darby	Artefact	Email	18/04/2019	Agency letter requesting names of potentially interested parties, requested feedback by 10 May 2019
	Office of Environment and Heritage	A Darby	Artefact	Email	18/04/2019	Agency letter requesting names of potentially interested parties, requested feedback by 10 May 2019
	Office of the Registrar	A Darby	Artefact	Email	18/04/2019	Agency letter requesting names of potentially interested parties, requested feedback by 10 May 2019
	Greater Sydney Local Land Services	A Darby	Artefact	Email	18/04/2019	Agency letter requesting names of potentially interested parties, requested feedback by 10 May 2019
	Deerubbin Local Aboriginal Land Council	A Darby	Artefact	Email	18/04/2019	Agency letter requesting names of potentially interested parties, requested feedback by 10 May 2019
	Penrith City Council	A Darby	Artefact	Email	18/04/2019	Agency letter requesting names of potentially interested parties, requested feedback by 10 May 2019
<b>4.1.3 AD</b>						
<b>Koori Mail</b>		J Norfolk	Artefact	Email	17/04/2019	Published Ad April 24 edition, requested registrations by 10 May 2020
<b>Liverpool Leader</b>		J Norfolk	Artefact	Email	17/04/2019	Published Ad April 24 edition, requested registrations b 10 May 2020
<b>Agency Responses</b>						
A Darby	Artefact		National Native Title Tribunal	Email	24/04/2019	No native title claims
A Darby	Artefact	Margaret Bottrell	Greater Sydney Local Land Services	Email	29/04/2019	
A Darby	Artefact	Barry Gunther	OEH	Email	1/05/2019	Provided list of potential Aboriginal stakeholders
<b>Invitation to Register 4.1.3</b>						
<b>Kevin Cavanagh</b>	Deerubbin Local Aboriginal Land Council	A Darby	Artefact	Email	01/05/2019	Sent out invitation to register for consultation
<b>Justine Coplin</b>	Darug Custodian Aboriginal Corporation	A Darby	Artefact	Email	01/05/2019	Sent out invitation to register for consultation
<b>-</b>	Darug Tribal Aboriginal Corporation	A Darby	Artefact	Email	01/05/2019	Sent out invitation to register for consultation
<b>Jamie Workman</b>	Darug Land Observations	A Darby	Artefact	Email	01/05/2019	Sent out invitation to register for consultation
<b>Des Dyer</b>	Des Dyer	A Darby	Artefact	Email	01/05/2019	Sent out invitation to register for consultation
<b>Carolyn Hickey</b>	A1 Indigenous Services	A Darby	Artefact	Email	01/05/2019	Sent out invitation to register for consultation
<b>Cherie Carroll</b>	Gunjeewong Cultural Heritage Aboriginal Corporation	A Darby	Artefact	Email	01/05/2019	Sent out invitation to register for consultation
<b>Darleen Johnson</b>	Murra Bidgee Mullangari Aboriginal Corporation	A Darby	Artefact	Email	01/05/2019	Sent out invitation to register for consultation
<b>Phillip Khan</b>	Kamilaroi Yankuntjatjara Working group	A Darby	Artefact	Email	01/05/2019	Sent out invitation to register for consultation
<b>Kerrie Slater</b>	Wurrumay Consultants	A Darby	Artefact	Email	01/05/2019	Sent out invitation to register for consultation
<b>Aaron Slater</b>	Warragil Cultural Services	A Darby	Artefact	Email	01/05/2019	Sent out invitation to register for consultation

<b>Vicky Slater</b>	Kawul Cultural Services	A Darby	Artefact	Email	01/05/2019	Sent out invitation to register for consultation
<b>Scott Franks</b>	Tocomwall	A Darby	Artefact	Email	01/05/2019	Sent out invitation to register for consultation
<b>Amanda Hickey</b>	Amanda Hickey Cultural Services	A Darby	Artefact	Email	01/05/2019	Sent out invitation to register for consultation
<b>Stephen Hickey</b>	Widescope Indigenous Group	A Darby	Artefact	Email	01/05/2019	Sent out invitation to register for consultation
<b>Tony Williams</b>	Rane Consulting	A Darby	Artefact	Email	01/05/2019	Sent out invitation to register for consultation
<b>Ricky Fields</b>	Dhinawan-Dhigaraa Culture and Heritage	A Darby	Artefact	Email	01/05/2019	Sent out invitation to register for consultation
<b>Kylie Ann Bell</b>	Gunyuu	A Darby	Artefact	Email	01/05/2019	Sent out invitation to register for consultation
<b>Hika Te Kowhai</b>	Walbunja	A Darby	Artefact	Email	01/05/2019	Sent out invitation to register for consultation
	Badu	A Darby	Artefact	Mail	01/05/2019	Sent out invitation to register for consultation
<b>Basil Smith</b>	Goobah Developments	A Darby	Artefact	Email	01/05/2019	Sent out invitation to register for consultation
<b>Robert Parson</b>	Yerramurra	A Darby	Artefact	Email	01/05/2019	Sent out invitation to register for consultation
<b>Newton Carriage</b>	Nundagurni	A Darby	Artefact	Email	01/05/2019	Sent out invitation to register for consultation
<b>Mark Henry</b>	Murrumbul	A Darby	Artefact	Email	01/05/2019	Sent out invitation to register for consultation
<b>Joanne Anne Stewart</b>	Jerringong	A Darby	Artefact	Email	01/05/2019	Sent out invitation to register for consultation
<b>Pemulway Johnson</b>	Pemulway CHTS	A Darby	Artefact	Email	01/05/2019	Sent out invitation to register for consultation
<b>Simalene Carraige</b>	Bilinga	A Darby	Artefact	Email	01/05/2019	Sent out invitation to register for consultation
<b>Kaya Dawn Bell</b>	Munyunga	A Darby	Artefact	Email	01/05/2019	Sent out invitation to register for consultation
<b>Hayley Bell</b>	Wingikara	A Darby	Artefact	Email	01/05/2019	Sent out invitation to register for consultation
<b>Aaron Broad</b>	Minnamunnung	A Darby	Artefact	Mail	01/05/2019	Sent out invitation to register for consultation
<b>Ronald Stewart</b>	Walgalu	A Darby	Artefact	Email	01/05/2019	Sent out invitation to register for consultation
<b>Shane Carriage</b>	Thauaira	A Darby	Artefact	Email	01/05/2019	Sent out invitation to register for consultation
<b>Andrew Bond</b>	Dharug	A Darby	Artefact	Email	01/05/2019	Sent out invitation to register for consultation
<b>Robert Brown</b>	Bilinga Cultural Heritage Technical Services	A Darby	Artefact	Email	01/05/2019	Sent out invitation to register for consultation
<b>Darlene Hoskins-McKenzie</b>	Gunyuu Cultural Heritage Technical Services	A Darby	Artefact	Email	01/05/2019	Sent out invitation to register for consultation two email provided – sent to both
<b>Suzannah McKenzie</b>	Munyunga Cultural Heritage Technical Services	A Darby	Artefact	Email	01/05/2019	Sent out invitation to register for consultation
<b>Levi McKenzie-Kirkbright</b>	Murrumbul Cultural Heritage Technical Services	A Darby	Artefact	Email	01/05/2019	Sent out invitation to register for consultation
<b>Wandai Kirkbright</b>	Wingikara Cultural Heritage Technical services	A Darby	Artefact	Email	01/05/2019	Sent out invitation to register for consultation



Wendy Smith	Gulaga	A Darby	Artefact	Email	01/05/2019	Sent out invitation to register for consultation
Seli Storer	Biamanga	A Darby	Artefact	Email	01/05/2019	Sent out invitation to register for consultation
Corey Smith	Cullendulla	A Darby	Artefact	Email	01/05/2019	Sent out invitation to register for consultation
Roxanne Smith	Murramarang	A Darby	Artefact	Email	01/05/2019	Sent out invitation to register for consultation
Darren Duncan	DJMD Consultancy	A Darby	Artefact	Email	01/05/2019	Sent out invitation to register for consultation
Jennifer Beale	Butacarbin Aboriginal Corporation	A Darby	Artefact	Email	01/05/2019	Sent out invitation to register for consultation
Paul Boyd and Lillie Carol	Didge Ngunawal Clan	A Darby	Artefact	Email	01/05/2019	Sent out invitation to register for consultation
Steven Johnson and Krystle Carroll	Ginninderra Aboriginal Corporation	A Darby	Artefact	Email	01/05/2019	Sent out invitation to register for consultation
Newton Carriage	Nerrigundah	A Darby	Artefact	Email	01/05/2019	Sent out invitation to register for consultation
Phil Boney	Wailwan Aboriginal Group	A Darby	Artefact	Email	01/05/2019	Sent out invitation to register for consultation
Jody Kulakowski	Barking Owl Aboriginal Corporation	A Darby	Artefact	Email	01/05/2019	Sent out invitation to register for consultation
John Carriage	Thoorga Nura	A Darby	Artefact	Email	01/05/2019	Sent out invitation to register for consultation
Arika Jalomaki	Yulay Cultural Services	A Darby	Artefact	Email	01/05/2019	Sent out invitation to register for consultation
Gordon Workman	Darug Boorooberongal Elders Aboriginal Corporation	A Darby	Artefact	Email	01/05/2019	Sent out invitation to register for consultation
	Darug Aboriginal Cultural Heritage Assessments	A Darby	Artefact	Mail	01/05/2019	Sent out invitation to register for consultation
Shaun Carroll	Merrigarn Indigenous Corporation	A Darby	Artefact	Mail	01/05/2019	Sent out invitation to register for consultation
James Carroll	Bidjawong Aboriginal Corporation	A Darby	Artefact	Mail	01/05/2019	Sent out invitation to register for consultation
Patricia Hampton	HSB Consultants	A Darby	Artefact	Mail	01/05/2019	Sent out invitation to register for consultation
Anthony Williams	Aboriginal Archaeology Service Incorporated	A Darby	Artefact	Mail	01/05/2019	Sent out invitation to register for consultation
Karia Lea Bond	Badu	A Darby	Artefact	Mail	01/05/2019	Sent out invitation to register for consultation
Lee Roy James Boota	Wullung	A Darby	Artefact	Mail	01/05/2019	Sent out invitation to register for consultation
A Darby	Artefact		Bilinga Cultural Heritage Technical Services	Email	01/5/2019	Email was undeliverable – Not valid email
A Darby	Artefact		Gunyu Cultural Heritage Technical Services	Email	01/5/2019	Email was undeliverable – Not valid email
A Darby	Artefact		Munyunga Cultural Heritage Technical Services	Email	01/5/2019	Email was undeliverable – Not valid email
A Darby	Artefact		Murrumbul Cultural Heritage Technical Services	Email	01/5/2019	Email was undeliverable – Not valid email

A Darby	Artefact		Wingkara Cultural Heritage Technical services	Email	01/5/2019	Email was undeliverable – Not valid email
Ralph Hampton	BH Heritage Consultants	A Darby	Artefact	Email	02/05/2019	Sent out invitation to register for consultation
Nola Hampton	BH Heritage Consultants	A Darby	Artefact	Email	02/05/2019	Sent out invitation to register for consultation
Phillip Carroll	Mura Indigenous corporation	A Darby	Artefact	Mail	02/05/2019	Sent out invitation to register for consultation
<b>Registration of Interest</b>						
A Darby	Artefact	Amanda Hickey	Amanda Hickey Cultural Services	Email	1/5/2019	Registered interest
A Darby	Artefact	Ryan Johnson	Murra Bidgee Mullangari Aboriginal Corporation	Email	1/5/2019	Registered interest
A Darby	Artefact	Jennifer Beale	Butucarbin Aboriginal Corporation	Phone	1/5/2019	Called because the recall email came after the resent email and was confused. Registered over the phone
A Darby	Artefact	Lilly Carroll	Digengunawal Clan	Email	1/5/2019	Registered interest
A Darby	Artefact	Des Dyer	Darug Aboriginal Land Care	Email	1/5/2019	Registered interest
A Darby	Artefact	Shaun Carroll	Merrgam	Email	2/5/2019	Registered interest
A Darby	Artefact	Arika Jalomaki	Yulay Cultural Services	Email	2/5/2019	Registered interest
A Darby	Artefact	Kayla Williamson	Woronora Plateau Gundangara Elders Council	Email	3/5/2019	Registered interest
A Darby	Artefact	Justine Coplin	Darug Custodian Aboriginal Corporation	Email	4/5/2019	Registered interest
A Darby	Artefact	Carolyn Hickey	A1 Indigenous Services	Email	6/5/2019	Registered interest
A Darby	Artefact	Steve Hickey	Widescope	Email	6/5/2019	Registered interest
A Darby	Artefact	Jamie Workman	Darug Land Observations	Email	6/5/2019	Registered interest
A Darby	Artefact	Jody Kulakowski	Barking Owl Aboriginal Corporation	Email	6/5/2019	Registered interest
A Darby	Artefact	Steven Hickey	Widescope	Email	7/05/2019	Sent a follow up email with further contact information and daily rates
A Darby	Artefact	Ryan Johnson	Murra Bidgee Mullangari Aboriginal Corporation	Email	7/5/2019	Registered interest again
A Darby	Artefact	Ralph Hampton	BH Heritage Consultants	Email	8/5/2019	Registered interest
A Darby	Artefact	Glenda Chalker	Cubbitch Barta	Email	8/5/2019	Registered interest
A Darby	Artefact	Lee Field	Barraby Cultural Services	Email	8/5/2019	Registered interest
A Darby	Artefact	Bo Field	Yurrandaali Cultural Services	Email	8/5/2019	Registered interest
A Darby	Artefact	Arika Jalomaki	Yulay Cultural Services	Email	8/5/2019	Registered interest again
A Darby	Artefact	Vicki Slater	Kawul Cultural Services	Email	10/5/2019	Registered interest
A Darby	Artefact	Kerrie Slater	Wurrumay Cultural Services	Email	10/5/2019	Registered interest
A Darby	Artefact	Basil Smith	Goobah	Email	13/5/2019	Registered interest
A Darby	Artefact	Corey Smith	Cullendulla	Email	13/5/2019	Registered interest

A Darby	Artefact	Janaya Smith	Biamanga	Email	13/5/2019	Registered interest
A Darby	Artefact	Roxanne Smith	Murramarang	Email	13/5/2019	Registered interest
A Darby	Artefact	Celestine Everingham	Darug Aboriginal Cultural Heritage Assessments	Email	15/5/2019	Registered interest
<b>4.1.6 OEH and LALC notification of RAP registration</b>						
OEH		A Darby	Artefact	Email	30/05/2019	Sent out notification of RAP registration
Deerubbin	Steve Randell	A Darby	Artefact	Email	30/05/2019	Sent out notification of RAP registration
<b>Test Excavation Methodology Review</b>						
<b>Amanda Hickey</b>	Amanda Hickey Cultural Services	A. Haast	Artefact	Email	4/11/2019	Sent out draft test excavation methodology, requested comments by the 2 December 2019
<b>Ryan Johnson</b>	Murra Bidgee Mullangari Aboriginal Corporation	A. Haast	Artefact	Email	4/11/2019	Sent out draft test excavation methodology, requested comments by the 2 December 2019
<b>Jennifer Beale</b>	Butlucabin Aboriginal Corporation	A. Haast	Artefact	Email	4/11/2019	Sent out draft test excavation methodology, requested comments by the 2 December 2019
<b>Lilly Carroll</b>	Didge Ngunawal Clan	A. Haast	Artefact	Email	4/11/2019	Sent out draft test excavation methodology, requested comments by the 2 December 2019
<b>Des Dyer</b>	Darug Aboriginal Land Care	A. Haast	Artefact	Email	4/11/2019	Sent out draft test excavation methodology, requested comments by the 2 December 2019
<b>Shaun Carroll</b>	Merrigam	A. Haast	Artefact	Email	4/11/2019	Sent out draft test excavation methodology, requested comments by the 2 December 2019
<b>Arika Jalomaki</b>	Yulay Cultural Services	A. Haast	Artefact	Email	4/11/2019	Sent out draft test excavation methodology, requested comments by the 2 December 2019
<b>Kayla Williamson</b>	Woronora Plateau Gundangara Elders Council	A. Haast	Artefact	Email	4/11/2019	Sent out draft test excavation methodology, requested comments by the 2 December 2019
<b>Justine Coplin</b>	Darug Custodian Aboriginal Corporation	A. Haast	Artefact	Email	4/11/2019	Sent out draft test excavation methodology, requested comments by the 2 December 2019
<b>Carolyn Hickey</b>	A1 Indigenous Services	A. Haast	Artefact	Email	4/11/2019	Sent out draft test excavation methodology, requested comments by the 2 December 2019
<b>Steve Hickey</b>	Widescope	A. Haast	Artefact	Email	4/11/2019	Sent out draft test excavation methodology, requested comments by the 2 December 2019
<b>Jamie Workman</b>	Darug Land Observations	A. Haast	Artefact	Email	4/11/2019	Sent out draft test excavation methodology, requested comments by the 2 December 2019
<b>Jody Kulakowski</b>	Barking Owl Aboriginal Corporation	A. Haast	Artefact	Email	4/11/2019	Sent out draft test excavation methodology, requested comments by the 2 December 2019
<b>Ralph Hampton</b>	BH Heritage Consultants	A. Haast	Artefact	Email	4/11/2019	Sent out draft test excavation methodology, requested comments by the 2 December 2019
<b>Glenda Chalker</b>	Cubbitch Barta Native Title Claimants	A. Haast	Artefact	Email and Letter	4/11/2019	Sent out draft test excavation methodology, requested comments by the 2 December 2019
<b>Lee Field</b>	Barraby Cultural Services	A. Haast	Artefact	Email	4/11/2019	Sent out draft test excavation methodology, requested comments by the 2 December 2019
<b>Bo Field</b>	Yurrandaali Cultural Services	A. Haast	Artefact	Email	4/11/2019	Sent out draft test excavation methodology, requested comments by the 2 December 2019
<b>Arika Jalomaki</b>	Yulay Cultural Services	A. Haast	Artefact	Email	4/11/2019	Sent out draft test excavation methodology, requested comments by the 2 December 2019
<b>Vicki Slater</b>	Kawul Cultural Services	A. Haast	Artefact	Email	4/11/2019	Sent out draft test excavation methodology, requested comments by the 2 December 2019
<b>Kerrie Slater</b>	Wurrumay Cultural Services	A. Haast	Artefact	Email	4/11/2019	Sent out draft test excavation methodology, requested comments by the 2 December 2019

<b>Basil Smith</b>	Goobah	A. Haast	Artefact	Email	4/11/2019	Sent out draft test excavation methodology, requested comments by the 2 December 2019
<b>Corey Smith</b>	Cullendulla	A. Haast	Artefact	Email	4/11/2019	Sent out draft test excavation methodology, requested comments by the 2 December 2019
<b>Janaya Smith</b>	Biamanga	A. Haast	Artefact	Email	4/11/2019	Sent out draft test excavation methodology, requested comments by the 2 December 2019
<b>Roxanne Smith</b>	Murramarang	A. Haast	Artefact	Email	4/11/2019	Sent out draft test excavation methodology, requested comments by the 2 December 2019
<b>Celestine Everingham</b>	Darug Aboriginal Cultural Heritage Assessments	A. Haast	Artefact	Letter	4/11/2019	Sent out draft test excavation methodology, requested comments by the 2 December 2019
<b>Steve Randall</b>	Deerubbin LALC	A. Haast	Artefact	Email	4/11/2019	Sent out draft test excavation methodology, requested comments by the 2 December 2019
<b>ACHAR Methodology Review</b>						
<b>Amanda Hickey</b>	Amanda Hickey Cultural Services	A. Haast	Artefact	Email	8/11/2019	Sent out ACHAR methodology, requested comments by the 9 December 2019
<b>Ryan Johnson</b>	Murra Bidgee Mullangari Aboriginal Corporation	A. Haast	Artefact	Email	8/11/2019	Sent out ACHAR methodology, requested comments by the 9 December 2019
<b>Jennifer Beale</b>	Butucarbin Aboriginal Corporation	A. Haast	Artefact	Email	8/11/2019	Sent out ACHAR methodology, requested comments by the 9 December 2019
<b>Lilly Carroll</b>	Didge Ngunawal Clan	A. Haast	Artefact	Email	8/11/2019	Sent out ACHAR methodology, requested comments by the 9 December 2019
<b>Des Dyer</b>	Darug Aboriginal Land Care	A. Haast	Artefact	Email	8/11/2019	Sent out ACHAR methodology, requested comments by the 9 December 2019
<b>Shaun Carroll</b>	Merrigam	A. Haast	Artefact	Email	8/11/2019	Sent out ACHAR methodology, requested comments by the 9 December 2019
<b>Arika Jalomaki</b>	Yulay Cultural Services	A. Haast	Artefact	Email	8/11/2019	Sent out ACHAR methodology, requested comments by the 9 December 2019
<b>Kayla Williamson</b>	Woronora Plateau Gundangara Elders Council	A. Haast	Artefact	Email	8/11/2019	Sent out ACHAR methodology, requested comments by the 9 December 2019
<b>Justine Coplin</b>	Darug Custodian Aboriginal Corporation	A. Haast	Artefact	Email	8/11/2019	Sent out ACHAR methodology, requested comments by the 9 December 2019
<b>Carolyn Hickey</b>	A1 Indigenous Services	A. Haast	Artefact	Email	8/11/2019	Sent out ACHAR methodology, requested comments by the 9 December 2019
<b>Steve Hickey</b>	Widescope	A. Haast	Artefact	Email	8/11/2019	Sent out ACHAR methodology, requested comments by the 9 December 2019
<b>Jamie Workman/Anna Ohara</b>	Darug Land Observations	A. Haast	Artefact	Email	8/11/2019	Sent out ACHAR methodology, requested comments by the 9 December 2019
<b>Jody Kulakowski</b>	Barking Owl Aboriginal Corporation	A. Haast	Artefact	Email	8/11/2019	Sent out ACHAR methodology, requested comments by the 9 December 2019
<b>Ralph Hampton</b>	BH Heritage Consultants	A. Haast	Artefact	Email	8/11/2019	Sent out ACHAR methodology, requested comments by the 9 December 2019
<b>Glenda Chalker</b>	Cubbitch Barta Native Title Claimants	A. Haast	Artefact	Email	8/11/2019	Sent out ACHAR methodology, requested comments by the 9 December 2019
<b>Lee Field</b>	Barraby Cultural Services	A. Haast	Artefact	Email	8/11/2019	Sent out ACHAR methodology, requested comments by the 9 December 2019
<b>Bo Field</b>	Yurrandaali Cultural Services	A. Haast	Artefact	Email	8/11/2019	Sent out ACHAR methodology, requested comments by the 9 December 2019
<b>Arika Jalomaki</b>	Yulay Cultural Services	A. Haast	Artefact	Email	8/11/2019	Sent out ACHAR methodology, requested comments by the 9 December 2019
<b>Vicki Slater</b>	Kawul Cultural Services	A. Haast	Artefact	Email	8/11/2019	Sent out ACHAR methodology, requested comments by the 9 December 2019

<b>Kerrie Slater</b>	Wurrumay Cultural Services	A Haast	Artefact	Artefact	Email	8/11/2019	Sent out ACHAR methodology, requested comments by the 9 December 2019
<b>Basil Smith</b>	Goobah	A Haast	Artefact	Artefact	Email	8/11/2019	Sent out ACHAR methodology, requested comments by the 9 December 2019
<b>Corey Smith</b>	Cullendulla	A Haast	Artefact	Artefact	Email	8/11/2019	Sent out ACHAR methodology, requested comments by the 9 December 2019
<b>Janaya Smith</b>	Biamanga	A Haast	Artefact	Artefact	Email	8/11/2019	Sent out ACHAR methodology, requested comments by the 9 December 2019
<b>Roxanne Smith</b>	Murramarang	A Haast	Artefact	Artefact	Email	8/11/2019	Sent out ACHAR methodology, requested comments by the 9 December 2019
<b>Celestine Everingham</b>	Darug Aboriginal Cultural Heritage Assessments	A Haast	Artefact	Artefact	Letter	8/11/2019	Sent out ACHAR methodology, requested comments by the 9 December 2019
<b>Steve Randall</b>	Deerubbin LALC	A Haast	Artefact	Artefact	Email	8/11/2019	Sent out ACHAR methodology, requested comments by the 9 December 2019
<b>Responses to ACHAR and test excavation methodology</b>							
<b>A Haast</b>	Artefact	Vicki Slater	Kawul Cultural Services	Kawul Cultural Services	Email	4/11/2019	Thanked Alyce for providing test excavation methodology
<b>A Haast</b>	Artefact	Paul Boyd & Lilly Carrol	Didge Ngunawl Clan	Didge Ngunawl Clan	Email	4/11/2019	DNC is happy with the methodology and eager for survey and test excavation. DNC have experience in area with Navin Officer and Neville Baker
<b>A Haast</b>	Artefact	Justine Coplin	Darug Custodian Aboriginal Corporation	Darug Custodian Aboriginal Corporation	Email	6/11/2019	Support recommendations set out in the report
<b>A Haast</b>	Artefact	Ryan Johnson	Murra Bidgee Mullangari Aboriginal Corporation	Murra Bidgee Mullangari Aboriginal Corporation	Email	8/11/2019	Supports ACHAR methodology
<b>A Haast</b>	Artefact	Ryan Johnson	Murra Bidgee Mullangari Aboriginal Corporation	Murra Bidgee Mullangari Aboriginal Corporation	Email	10/11/2019	Supports the test excavation methodology
<b>A Haast</b>	Artefact	Glenda Chalker	Cubbitch Barta Native Title Claimants	Cubbitch Barta Native Title Claimants	Email	11/11/2019	Requested hard copy of the test excavation methodology
<b>A Haast</b>	Artefact	Glenda Chalker	Cubbitch Barta Native Title Claimants	Cubbitch Barta Native Title Claimants	Email	11/11/2019	Confirmed receipt of hardcopy of methodology
<b>A Haast</b>	Artefact	Glenda Chalker	Cubbitch Barta Native Title Claimants	Cubbitch Barta Native Title Claimants	Letter	11/11/2019	Provided feedback on test excavation methodology. Recommended test excavation only employ wet sieving. Noted that many hcolonial homesteads were built on Aboriginal Campsites. Suggested that historic heritage investigations consider the potential of Aboriginal objects being present
<b>A Haast</b>	Artefact	Justine Coplin	Darug Custodian Aboriginal Corporation	Darug Custodian Aboriginal Corporation	Email	12/11/2019	Support recommendations set out in the report. Would like surface collection to be added to the methodology
<b>A Haast</b>	Artefact	Amanda Hickey	Amanda Hickey Cultural Services	Amanda Hickey Cultural Services	Email	13/11/2019	Holds strong cultural knowledge towards the land of western Sydney. Have stories of land and significant sites throughout western Sydney. Interested in fieldwork
<b>A Haast</b>	Artefact	Lee Field	Barraby Cultural Services	Barraby Cultural Services	Email	15/11/2019	Reviewed and agreed with the proposed ACHAR assessment methodology
<b>A Haast</b>	Artefact	Lee Field	Barraby Cultural Services	Barraby Cultural Services	Email	15/11/2019	Supports the test excavation methodology for the project
<b>A Haast</b>	Artefact	Bo Field	Yurrandaali Pty Ltd	Yurrandaali Pty Ltd	Email	15/11/2019	Supports ACHAR methodology
<b>A Haast</b>	Artefact	Arika Jalomaki	Yulay Cultural Services	Yulay Cultural Services	Email	20/11/2019	Reviewed ACHAR methodology and supported it
<b>A Haast</b>	Artefact	Carolyn Hickey	A1 Indigenous Services	A1 Indigenous Services	Email	3/12/2019	Supports test excavation methodology and would like to be involved in field work
<b>A Haast</b>	Artefact	Carolyn Hickey	A1 Indigenous Services	A1 Indigenous Services	Email	3/12/2019	Supports assessment methodology and would like to be involved in field work



Draft ACHAR mailout						
Amanda Hickey	Amanda Hickey Cultural Services	A. Haast	Artefact	Email	1/5/2020	Sent out draft ACHAR requested comments by 30 May 2020
Ryan Johnson	Murra Bidgee Mullangari Aboriginal Corporation	A. Haast	Artefact	Email	1/5/2020	Sent out draft ACHAR requested comments by 30 May 2020
Jennifer Beale	Butucarbin Aboriginal Corporation	A. Haast	Artefact	Email	1/5/2020	Sent out draft ACHAR requested comments by 30 May 2020
Lilly Carroll	Didge Ngunawal Clan	A. Haast	Artefact	Email	1/5/2020	Sent out draft ACHAR requested comments by 30 May 2020
Des Dyer	Darug Aboriginal Land Care	A. Haast	Artefact	Email	1/5/2020	Sent out draft ACHAR requested comments by 30 May 2020
Shaun Carroll	Merrgam	A. Haast	Artefact	Email	1/5/2020	Sent out draft ACHAR requested comments by 30 May 2020
Arika Jalomaki	Yulay Cultural Services	A. Haast	Artefact	Email	1/5/2020	Sent out draft ACHAR requested comments by 30 May 2020
Kayla Williamson	Woronora Plateau Gundagara Elders Council	A. Haast	Artefact	Email	1/5/2020	Sent out draft ACHAR requested comments by 30 May 2020
Justine Coplin	Darug Custodian Aboriginal Corporation	A. Haast	Artefact	Email	1/5/2020	Sent out draft ACHAR requested comments by 30 May 2020
Carolyn Hickey	A 1 Indigenous Services	A. Haast	Artefact	Email	1/5/2020	Sent out draft ACHAR requested comments by 30 May 2020
Steve Hickey	Widescope	A. Haast	Artefact	Email	1/5/2020	Sent out draft ACHAR requested comments by 30 May 2020
Jamie Workman	Darug Land Observations	A. Haast	Artefact	Email	1/5/2020	Sent out draft ACHAR requested comments by 30 May 2020
Jody Kulakowski	Barking Owl Aboriginal Corporation	A. Haast	Artefact	Email	1/5/2020	Sent out draft ACHAR requested comments by 30 May 2020
Steven Hickey	Widescope	A. Haast	Artefact	Email	1/5/2020	Sent out draft ACHAR requested comments by 30 May 2020
Ryan Johnson	Murra Bidgee Mullangari Aboriginal Corporation	A. Haast	Artefact	Email	1/5/2020	Sent out draft ACHAR requested comments by 30 May 2020
Ralph Hampton	BH Heritage Consultants	A. Haast	Artefact	Email	1/5/2020	Sent out draft ACHAR requested comments by 30 May 2020
Glenda Chalker	Cubbitch Barta Native Title Claimants	A. Haast	Artefact	Email and Letter	1/5/2020	Sent out draft ACHAR requested comments by 30 May 2020
Lee Field	Barraby Cultural Services	A. Haast	Artefact	Email	1/5/2020	Sent out draft ACHAR requested comments by 30 May 2020
Bo Field	Yurrandaali Cultural Servies	A. Haast	Artefact	Email	1/5/2020	Sent out draft ACHAR requested comments by 30 May 2020
Arika Jalomaki	Yulay Cultural Services	A. Haast	Artefact	Email	1/5/2020	Sent out draft ACHAR requested comments by 30 May 2020
Vicki Slater	Kawul Cultural Services	A. Haast	Artefact	Email	1/5/2020	Sent out draft ACHAR requested comments by 30 May 2020
Kerrie Slater	Wurrumay Cultural Services	A. Haast	Artefact	Email	1/5/2020	Sent out draft ACHAR requested comments by 30 May 2020
Basil Smith	Goobah	A. Haast	Artefact	Email	1/5/2020	Sent out draft ACHAR requested comments by 30 May 2020
Corey Smith	Cullendulla	A. Haast	Artefact	Email	1/5/2020	Sent out draft ACHAR requested comments by 30 May 2020
Janaya Smith	Biamanga	A. Haast	Artefact	Email	1/5/2020	Sent out draft ACHAR requested comments by 30 May 2020
Roxanne Smith	Murramarang	A. Haast	Artefact	Email	1/5/2020	Sent out draft ACHAR requested comments by 30 May 2020

<b>Celestine Everingham</b>	Darug Aboriginal Cultural Heritage Assessments	A. Haast	Artefact	Letter	1/5/2020	Sent out draft ACHAR requested comments by 30 May 2020
<b>Steve Randall</b>	Deerubbin LALC	A. Haast	Artefact	Email	1/5/2020	Sent out draft ACHAR requested comments by 30 May 2020
<b>Comments on Draft ACHAR</b>						
<b>A. Haast</b>	Artefact	Glenda Chalker	Cubbitch Barta Native Title Corporation	Email	6/05/2020	<p>Queried whether the silcrete cobbles on page 31 were recorded as manuports</p> <p>Noted that PAD 03 should not be impacted and should be fenced off prior to earthworks. The area is likely to contain subsurface material. Suggests that the PAD extent is extended into the elbow of the creek. Requests clarity regarding the environmental area.</p> <p>Identified that cumulative impacts could accumulate to the total loss of Aboriginal heritage in this area.</p> <p>Preservation of PAD 3 will allow intergeneration equity.</p> <p>Excavated artefacts should be reburied within the PAD03 area.</p>
<b>A. Haast</b>	Artefact	Justine Coplin	Darug Custodian Aboriginal Corporation	Email	12/05/2020	<p>Notes that the amount of groups consulted with was high with many groups not from the local area. Do not support the input of any groups not from the local area.</p> <p>Supports the remainder of the report</p>
<b>A. Haast</b>	Artefact	Carolyn Hickey	A1 Indigenous Services	Email	18/05/2020	Has reviewed the draft ACHAR and supports the document

## Section 4.1.2 - Agency Contact

## Anna Darby

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**From:** Anna Darby  
**Sent:** Thursday, 18 April 2019 3:10 PM  
**To:** staff@deerubbin.org.au  
**Cc:** Alyce Haast  
**Subject:** Notification of project and identification of Interested Aboriginal Parties: Elizabeth Enterprise Precinct  
**Attachments:** Agency letter Elizabeth Enterprise\_LALC.pdf

Dear Steve,

I am commencing Aboriginal consultation for Elizabeth Enterprise Precinct, Badgerys Creek. Please find attached a letter regarding step 4.1.2 – 'Notification of project proposal and registration of interest' of the Aboriginal cultural heritage consultation requirements for proponents 2010.


Kind regards,

**Anna Darby**  
**Heritage Consultant**

### **ARTEFACT**

**Telephone:** 61 2 9518 8411 **Mobile:** 0413 281 439  
**Address:** Level 4, Building B, 35 Saunders Street, Pyrmont NSW 2009  
**Web:** [www.artefact.net.au](http://www.artefact.net.au)

Cultural Heritage Management | Archaeology | Heritage Interpretation

 *We acknowledge the Traditional Custodians of Country in which we live and work, and pay our respects to them, their culture and their Elders past, present and future*

**Notice:** This message contains privileged and confidential information intended only for the use of the addressee. If you are not the intended recipient you must not disseminate, copy or take any action in reliance upon it. If you received this in error, please notify us immediately.



artefact

18 April 2019

Deerubbin Local Aboriginal Land Council  
2/9 Tindale St  
Penrith  
NSW 2750

Dear Sir or Madam,

**Re: Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site.

The Stage 1 site location is shown within Figure 1 below.

It is likely that Aboriginal objects will be impacted by the proposal and at least one application for an Aboriginal Heritage Impact Permit (AHIP) under section 90 of the National Parks and Wildlife Act 1974 will be required. Mirvac has engaged Artefact Heritage to complete an Aboriginal Cultural Heritage assessment for the project, including consultation in accordance with the Aboriginal cultural heritage consultation requirements for proponents 2010 (DECCW 2010).

The contact details for the proponent are:

Russell Hogan  
Development Manager  
Mirvac  
Level 28, 200 George Street Sydney NSW 2000  
(02) 9080 8154  
Russell.Hogan@mirvac.com

Mirvac wishes to consult with any Aboriginal persons or organisations that hold cultural knowledge relevant to determining the significance of Aboriginal objects and places in Badgerys Creek. The purpose of the community consultation is to assist the proponent in the preparation of an AHIP application and to assist the Office of Environment and Heritage in determination of the application.

Consultation will also be used to inform on assessment required for further development within stage 1 of the EEP which may be subject to additional development consent processes. Additional consent processes may include State Significant development under the Environmental Planning and Assessment Act 1979.

In line with the relevant consultation guidelines, I am writing to you to request names and contact details that your organisation has for Aboriginal people or groups that hold cultural knowledge relevant to determining the significance of Aboriginal objects or places within Badgerys Creek. Please forward any information available before **10 May 2019** to:

Anna Darby  
Artefact Heritage  
Building B, Level 4, 35 Saunders Street  
Pyrmont NSW 2009



or email [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

Yours sincerely,

A handwritten signature in dark ink, appearing to read 'A Darby', with a stylized flourish at the end.

Anna Darby  
Heritage consultant  
Artefact Heritage

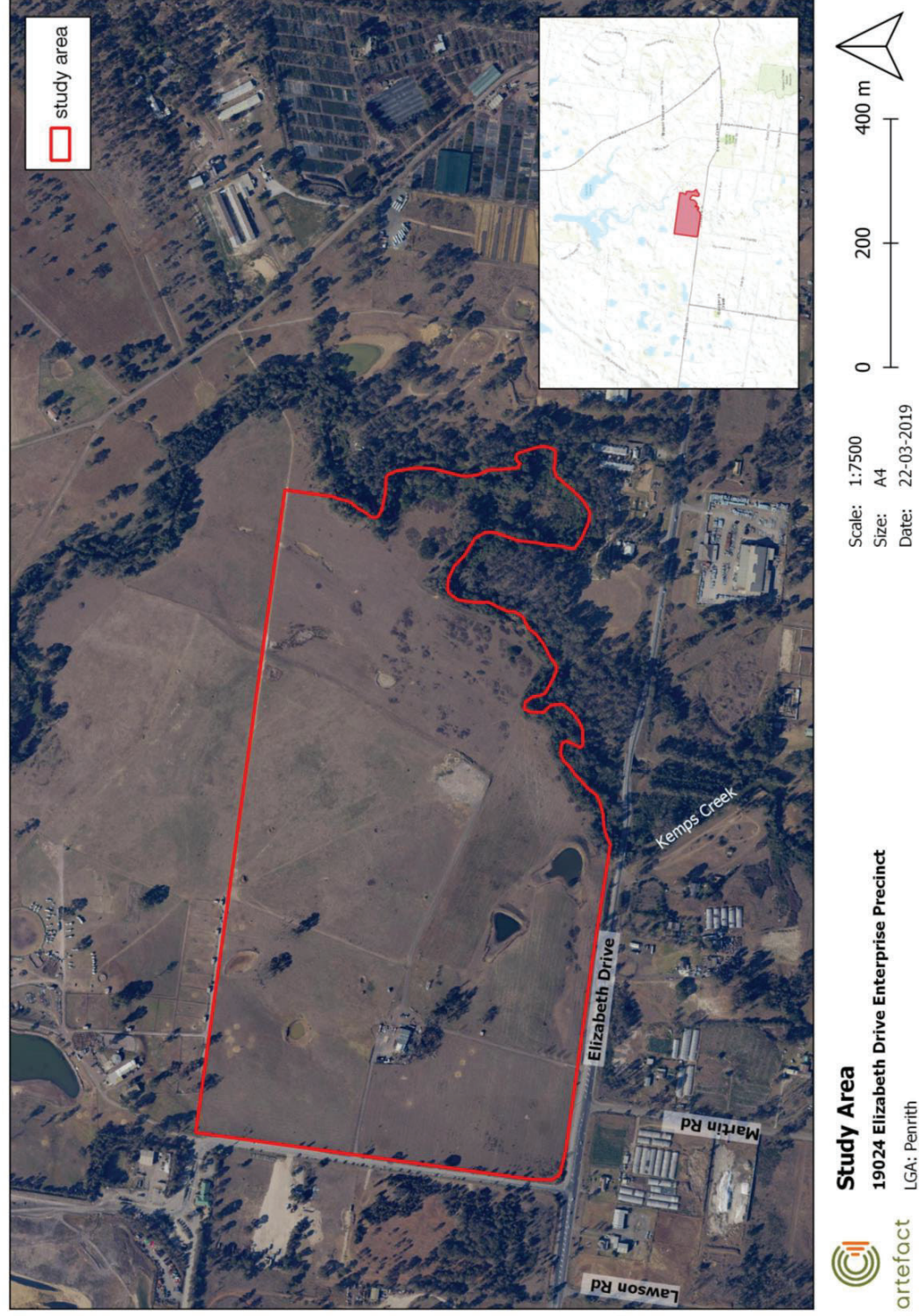
E: [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

P: 02 9518 8411

W: [www.artefact.net.au](http://www.artefact.net.au)

A: Level 4 Building B 35 Saunders Street Pyrmont NSW 2009

Figure 1: Map of study area



## Anna Darby

---

**From:** Anna Darby  
**Sent:** Thursday, 18 April 2019 3:10 PM  
**To:** gs.service@lls.nsw.gov.au  
**Cc:** Alyce Haast  
**Subject:** Notification of project and identification of Interested Aboriginal Parties: Elizabeth Enterprise Precinct  
**Attachments:** Agency letter Elizabeth Enterprise\_GSLLS.pdf

Dear Sir or Madam,

I am commencing Aboriginal consultation for Elizabeth Enterprise Precinct, Badgerys Creek. Please find attached a letter regarding step 4.1.2 – 'Notification of project proposal and registration of interest' of the Aboriginal cultural heritage consultation requirements for proponents 2010.


Kind regards,

**Anna Darby**  
**Heritage Consultant**

### ARTEFACT

**Telephone:** 61 2 9518 8411 **Mobile:** 0413 281 439  
**Address:** Level 4, Building B, 35 Saunders Street, Pyrmont NSW 2009  
**Web:** [www.artefact.net.au](http://www.artefact.net.au)

Cultural Heritage Management | Archaeology | Heritage Interpretation

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artefact

18 April 2019

Greater Sydney Local Land Services  
PO Box 4515  
Westfield Penrith  
NSW 2750

Dear Sir or Madam,

**Re: Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site.

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Development Manager  
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Anna Darby  
Artefact Heritage  
Building B, Level 4, 35 Saunders Street  
Pyrmont NSW 2009

or email [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

Yours sincerely,

A handwritten signature in dark ink, appearing to read 'A Darby', with a stylized, cursive script.

Anna Darby  
Heritage consultant  
Artefact Heritage

E: [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

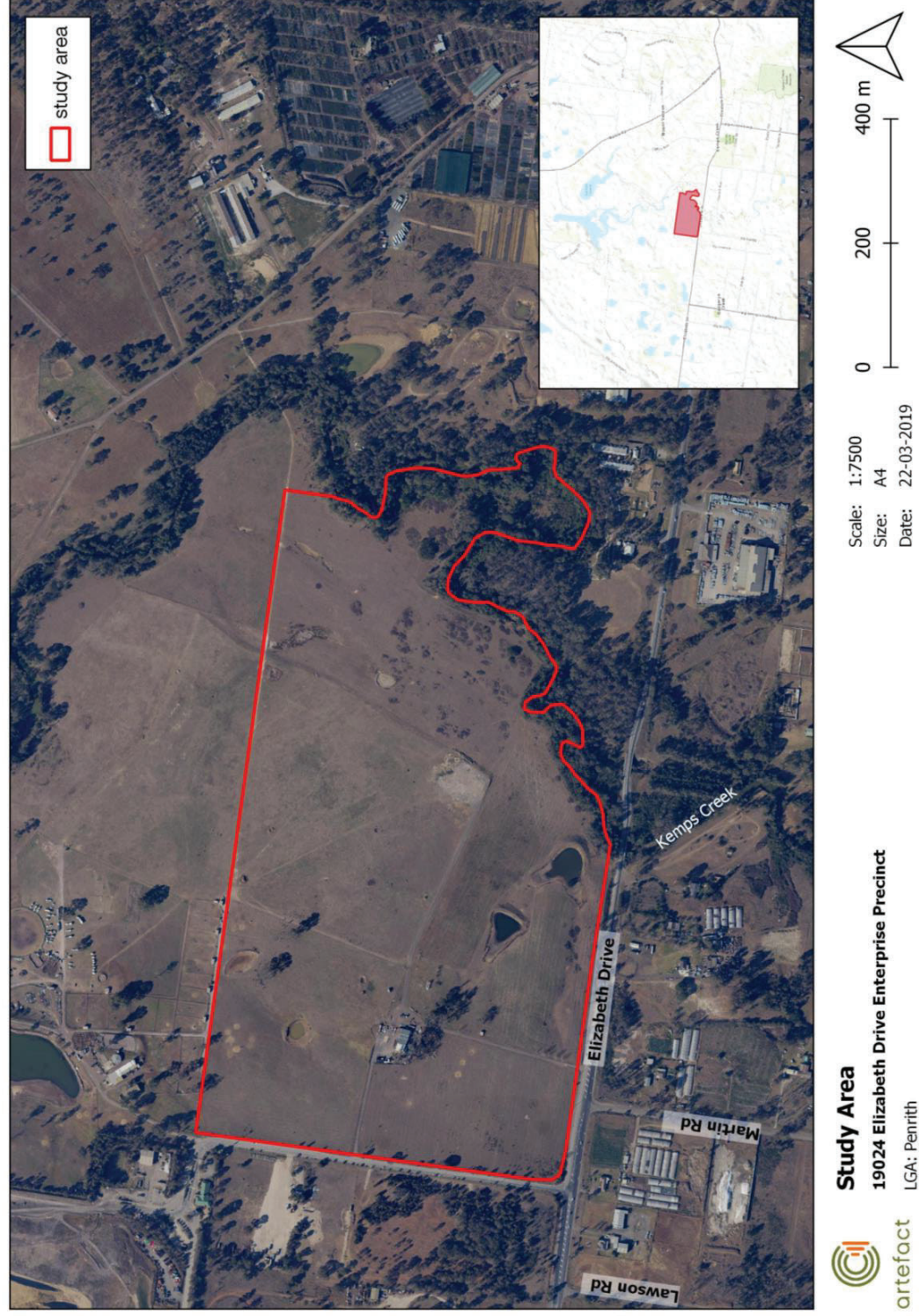
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W: [www.artefact.net.au](http://www.artefact.net.au)

A: Level 4 Building B 35 Saunders Street Pyrmont NSW 2009



Figure 1: Map of study area



## Anna Darby

---

**From:** Anna Darby  
**Sent:** Thursday, 18 April 2019 3:10 PM  
**To:** 'adminofficer@oralra.nsw.gov.au'  
**Cc:** Alyce Haast  
**Subject:** Notification of project and identification of Interested Aboriginal Parties: Elizabeth Enterprise Precinct  
**Attachments:** Agency letter Elizabeth Enterprise\_Registrar.pdf; 20180822\_Land\_Claim\_Search\_Request\_Elizabeth Precinct.pdf

Dear Sir or Madam,

I am commencing Aboriginal consultation for Elizabeth Enterprise Precinct, Badgerys Creek. Please find attached a letter regarding step 4.1.2 – 'Notification of project proposal and registration of interest' of the Aboriginal cultural heritage consultation requirements for proponents 2010, and a Land Claim Search Request.


Kind regards,

**Anna Darby**  
**Heritage Consultant**

### **ARTEFACT**

**Telephone:** 61 2 9518 8411 **Mobile:** 0413 281 439  
**Address:** Level 4, Building B, 35 Saunders Street, Pyrmont NSW 2009  
**Web:** [www.artefact.net.au](http://www.artefact.net.au)

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artefact

18 April 2019

Office of the Registrar  
PO Box 2037  
Glebe  
NSW 2037

Dear Sir or Madam,

**Re: Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site.

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Anna Darby  
Artefact Heritage  
Building B, Level 4, 35 Saunders Street  
Pyrmont NSW 2009

or email [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

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Anna Darby  
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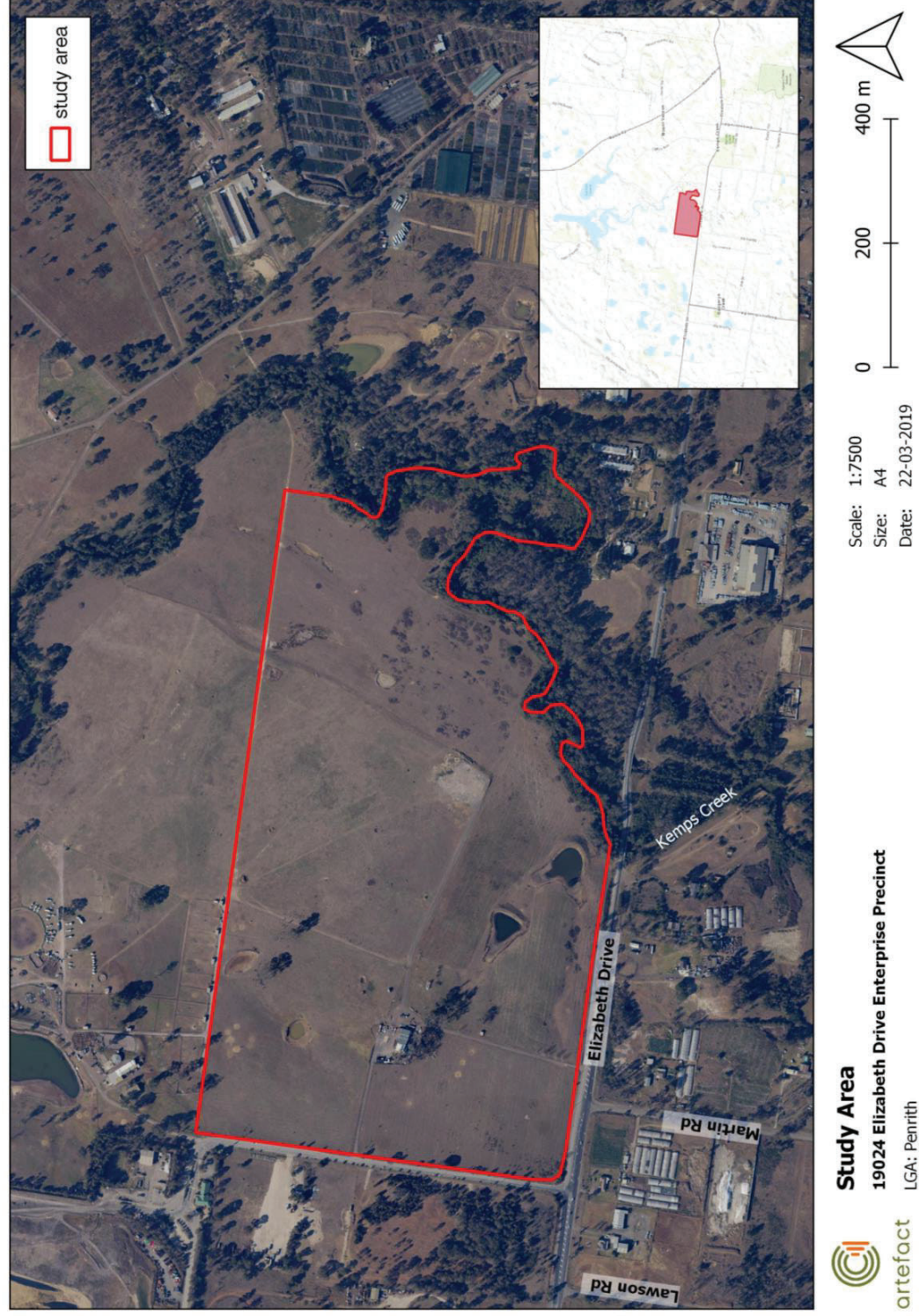
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Figure 1: Map of study area





# REQUEST FOR SEARCH OF LAND CLAIM REGISTER



OFFICE OF THE REGISTRAR  
ABORIGINAL LAND RIGHTS ACT 1983 (NSW)

Level 3, 2-10 Wentworth Street  
Parramatta, 2124  
02 8633 1266

PO Box 5068  
Parramatta, 2124

Please send the completed form via e-mail to : [Adminofficer@oralra.nsw.gov.au](mailto:Adminofficer@oralra.nsw.gov.au)

Please print all details clearly using block letters

Full name of person requesting search: *(name for correspondence)*

Anna Darby

Name of company: Artefact Heritage Services

Postal address: Level 4, Building B, 35 Saunders Street  
Pyrmont NSW 2009

E-mail address:

Office phone number: 02 9518 8411

Mobile phone:

Land identifiers: (lot, DP,  
reserve number – not Crown  
plan number or vol fol id)

Lot 5 DP 860456

Parish name: Melville

County name: Cumberland

To assist the office in assigning priorities, please answer the following:

1) Purpose for which information is required:

As an initial stage in the consultation process required by the OEH guidelines: 'Aboriginal cultural heritage consultation requirements for proponents 2010'

2) If urgent consideration is required, reason for urgency:

Signature, position and date:

Heritage Consultant  
18/04/2019

Please note:

- 1: The register covers only Crown land.
- 2: All information is required, including a name for correspondence before the search will be completed.
- 3: The person to whom correspondence is addressed must sign the form.
- 4: Searches are completed within 10 working days and returned by e-mail
- 5: Please be aware, it may take longer than 10 working days to respond to search requests that contain more than 10 parcels or identifiers

## Anna Darby

---

**From:** Anna Darby  
**Sent:** Thursday, 18 April 2019 3:10 PM  
**To:** gs.ach@environment.nsw.gov.au  
**Cc:** Alyce Haast  
**Subject:** Notification of project and identification of Interested Aboriginal Parties: Elizabeth Enterprise Precinct  
**Attachments:** Agency letter Elizabeth Enterprise\_OEH.pdf

Dear Sir or Madam,

I am commencing Aboriginal consultation for Elizabeth Enterprise Precinct, Badgerys Creek. Please find attached a letter regarding step 4.1.2 – 'Notification of project proposal and registration of interest' of the Aboriginal cultural heritage consultation requirements for proponents 2010.


Kind regards,

**Anna Darby**  
**Heritage Consultant**

### ARTEFACT

**Telephone:** 61 2 9518 8411 **Mobile:** 0413 281 439  
**Address:** Level 4, Building B, 35 Saunders Street, Pyrmont NSW 2009  
**Web:** [www.artefact.net.au](http://www.artefact.net.au)

Cultural Heritage Management | Archaeology | Heritage Interpretation

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## Anna Darby

---

**From:** Anna Darby  
**Sent:** Thursday, 18 April 2019 3:10 PM  
**To:** information@ntscorp.com.au  
**Cc:** Alyce Haast  
**Subject:** Notification of project and identification of Interested Aboriginal Parties: Elizabeth Enterprise Precinct  
**Attachments:** Agency letter Elizabeth Enterprise\_NTS corp.pdf

Dear Sir or Madam,

I am commencing Aboriginal consultation for Elizabeth Enterprise Precinct, Badgerys Creek. Please find attached a letter regarding step 4.1.2 – 'Notification of project proposal and registration of interest' of the Aboriginal cultural heritage consultation requirements for proponents 2010.


Kind regards,

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artefact

18 April 2019

NTS Corp  
PO Box 2105  
Strawberry Hills  
NSW 2012

Dear Sir or Madam,

**Re: Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

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Yours sincerely,

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Heritage consultant  
Artefact Heritage

E: [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

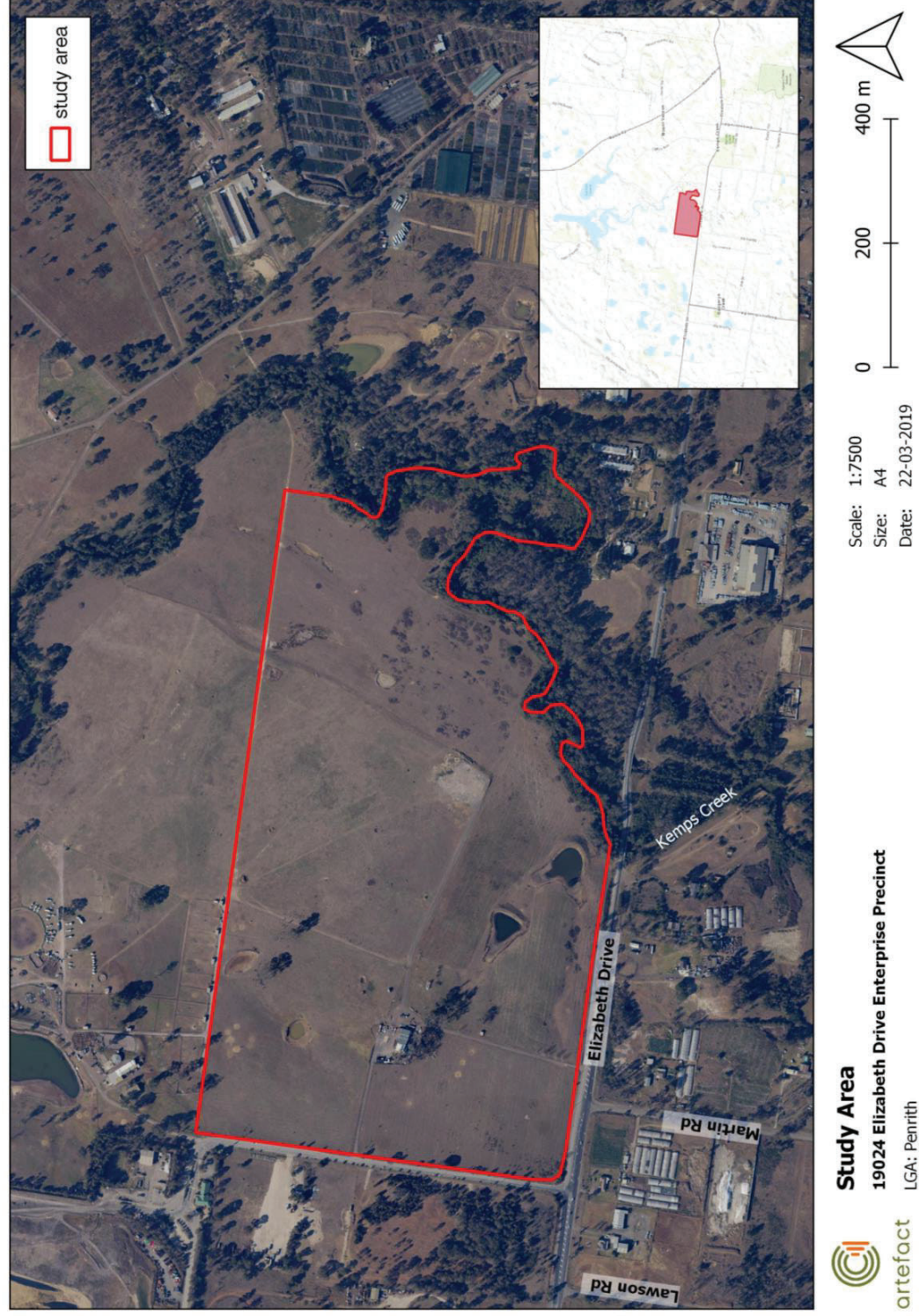
P: 02 9518 8411

W: [www.artefact.net.au](http://www.artefact.net.au)

A: Level 4 Building B 35 Saunders Street Pyrmont NSW 2009



Figure 1: Map of study area



## Anna Darby

---

**From:** Anna Darby  
**Sent:** Thursday, 18 April 2019 3:10 PM  
**To:** nswenquiries@nntt.gov.au  
**Cc:** Alyce Haast  
**Subject:** Notification of project and identification of Interested Aboriginal Parties: Elizabeth Enterprise Precinct  
**Attachments:** Agency letter Elizabeth Enterprise\_NNTT.pdf; NNTT search request\_Elizabeth Precinct.pdf

Dear Sir or Madam,

I am commencing Aboriginal consultation for Elizabeth Enterprise Precinct, Badgerys Creek. Please find attached a letter regarding step 4.1.2 – 'Notification of project proposal and registration of interest' of the Aboriginal cultural heritage consultation requirements for proponents 2010.


Kind regards,

**Anna Darby**  
**Heritage Consultant**

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**Address:** Level 4, Building B, 35 Saunders Street, Pyrmont NSW 2009  
**Web:** [www.artefact.net.au](http://www.artefact.net.au)

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artefact

18 April 2019

National Native Title Tribunal  
GPO Box 9973  
Sydney  
NSW 2001

Dear Sir or Madam,

**Re: Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

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Heritage consultant  
Artefact Heritage

E: [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

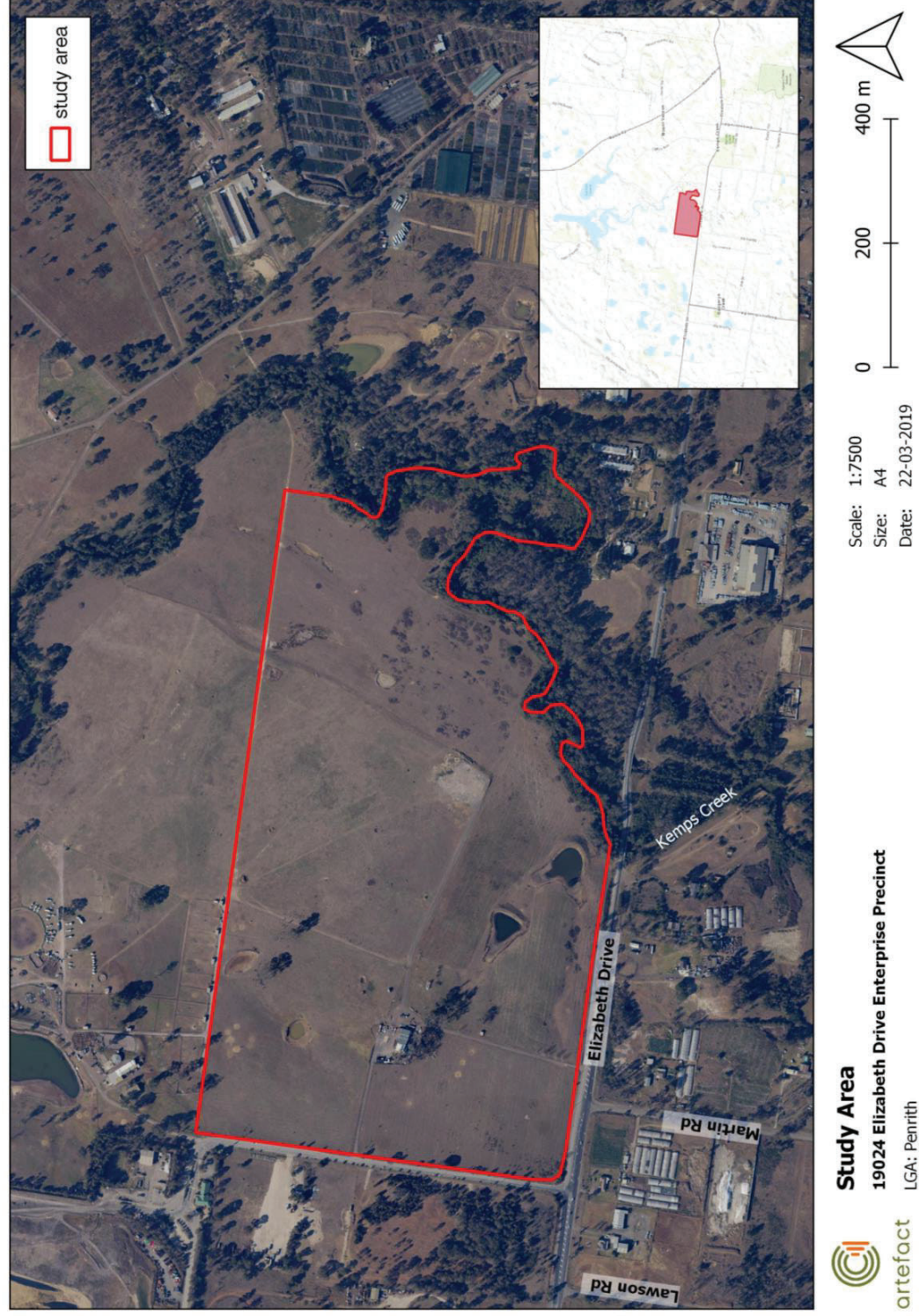
P: 02 9518 8411

W: [www.artefact.net.au](http://www.artefact.net.au)

A: Level 4 Building B 35 Saunders Street Pyrmont NSW 2009



Figure 1: Map of study area







# Request for Search of Tribunal Registers

\*mandatory fields are marked with an asterisk

## 1. Your details\*

NAME:	Anna Darby
POSITION:	Heritage Consultant
COMPANY/ORGANISATION:	Artefact Heritage
POSTAL ADDRESS:	Level 4, Building B, 35 Saunders Street, Pyrmont, NSW 2009
TELEPHONE:	02 9518 8411
EMAIL:	anna.darby@artefact.net.au
YOUR REFERENCE:	
DATE OF REQUEST:	

## 2. Reason for your request - please complete either Part A OR Part B\*

**Part A** - Are you a party to a native title proceeding? ☐ Yes ☒ No

Please provide Federal Court/Tribunal file number/  
or application name: \_\_\_\_\_

OR

**Part B** - Do you need to identify existing native title interests to comply with the *Native Title Act 1993* (Cth) or other State/Territory legislation? ☒ Yes ☐ No

Please provide brief details of these obligations here:

Requirement to contact NNTT in accordance  
with the guidelines provided by the NSW  
Office of Environment and Heritage  
'Aboriginal cultural heritage consultation  
requirements for proponents 2010'.

## 3. Identify the area to be searched – please complete either Part A OR Part B\*

**Part A - Mining tenure**

Tenement ref/s: \_\_\_\_\_  
State/Territory: \_\_\_\_\_

OR

**Part B - Other tenure type**

☐ Crown Land, crown reserve  
☐ Agricultural/pastoral lease  
☒ Freehold (privately owned)\*\*

State/Territory: NSW  
Local Government Area: Penrith

#### 4. Description (please provide as many details as possible)

Provide any additional  
details, including maps with  
landmarks clearly shown

Lot and plan details:

Property name:

Pastoral Lease number or name:

County:

Parish:

Town:

Section:

Hundred:

Northern Territory Portion:

Cumberland

Melville

Badgerys Creek

## 5. Submit your request

NNTT Office	Search jurisdiction	Email address	Fax
Perth	WA searches	<a href="mailto:waenquiries@nntt.gov.au">waenquiries@nntt.gov.au</a>	(08) 9425 1193
Melbourne	VIC, TAS searches SA, NT searches	<a href="mailto:vicandtasenquiries@nntt.gov.au">vicandtasenquiries@nntt.gov.au</a> <a href="mailto:sa_and_ntenquiries@nntt.gov.au">sa_and_ntenquiries@nntt.gov.au</a>	(03) 9606 0680 (03) 9606 0680
Sydney	NSW, ACT searches	<a href="mailto:nswenquiries@nntt.gov.au">nswenquiries@nntt.gov.au</a>	(02) 9227 4030
Brisbane	QLD searches	<a href="mailto:qldenquiries@nntt.gov.au">qldenquiries@nntt.gov.au</a>	(07) 3307 5050

**Or post to:** National Native Title Tribunal, GPO Box 9973 (Perth 6848, Melbourne 3001, Sydney 2001, Brisbane 4001)

- There is no charge for conducting searches of the Tribunal's databases.
- Timeframe for providing results is generally 3-5 business days.
- Register and schedule extracts, plus map attachments will be provided with your results. Technical coordinates may be omitted.

## Did you know?

**Native Title Vision (NTV)** is the National Native Title Tribunal's free online visualisation, mapping and query tool. All that is needed to use NTV is a computer connected to the internet, a current web browser and an NTV user account. NTV puts you in the driver's seat in exploring native title and brings together:

- a geospatial view of the Tribunal's registers and databases
- overlays of administrative regions, non-freehold land parcels and resources tenure.

To obtain a NTV user account visit the [Geospatial section](#) on our website.

## **\*\*Native title & freehold tenure**

Under the *Native Title Act 1993* (Cth), the valid grant of a freehold estate (other than certain types of Aboriginal and Torres Strait Islander land) on or before 23 December 1996 is known as a 'previous exclusive possession act'. This means that native title has been extinguished over the area.

The Tribunal is not the custodian of the data for freehold estates. To determine whether a particular parcel of land is freehold land, you may wish to seek such information from the relevant state/territory government custodian.

## Anna Darby

---

**From:** Anna Darby  
**Sent:** Thursday, 18 April 2019 3:10 PM  
**To:** council@penrith.city  
**Cc:** Alyce Haast  
**Subject:** Notification of project and identification of Interested Aboriginal Parties: Elizabeth Enterprise Precinct  
**Attachments:** Agency letter Elizabeth Enterprise\_PC.pdf

Dear Sir or Madam,


I am commencing Aboriginal consultation for Elizabeth Enterprise Precinct, Badgerys Creek. Please find attached a letter regarding step 4.1.2 – 'Notification of project proposal and registration of interest' of the Aboriginal cultural heritage consultation requirements for proponents 2010.

Kind regards,  
**Anna Darby**  
**Heritage Consultant**

### ARTEFACT

**Telephone:** 61 2 9518 8411 **Mobile:** 0413 281 439  
**Address:** Level 4, Building B, 35 Saunders Street, Pyrmont NSW 2009  
**Web:** [www.artefact.net.au](http://www.artefact.net.au)

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artefact

18 April 2019

Penrith City Council  
PO Box 60  
Penrith  
NSW 2751

Dear Sir or Madam,

**Re: Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site.

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Russell Hogan  
Development Manager  
Mirvac  
Level 28, 200 George Street Sydney NSW 2000  
(02) 9080 8154  
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In line with the relevant consultation guidelines, I am writing to you to request names and contact details that your organisation has for Aboriginal people or groups that hold cultural knowledge relevant to determining the significance of Aboriginal objects or places within Badgerys Creek. Please forward any information available before **10 May 2019** to:

Anna Darby  
Artefact Heritage  
Building B, Level 4, 35 Saunders Street  
Pyrmont NSW 2009



or email [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

Yours sincerely,

A handwritten signature in dark ink, appearing to read 'A Darby', with a stylized, cursive script.

Anna Darby  
Heritage consultant  
Artefact Heritage

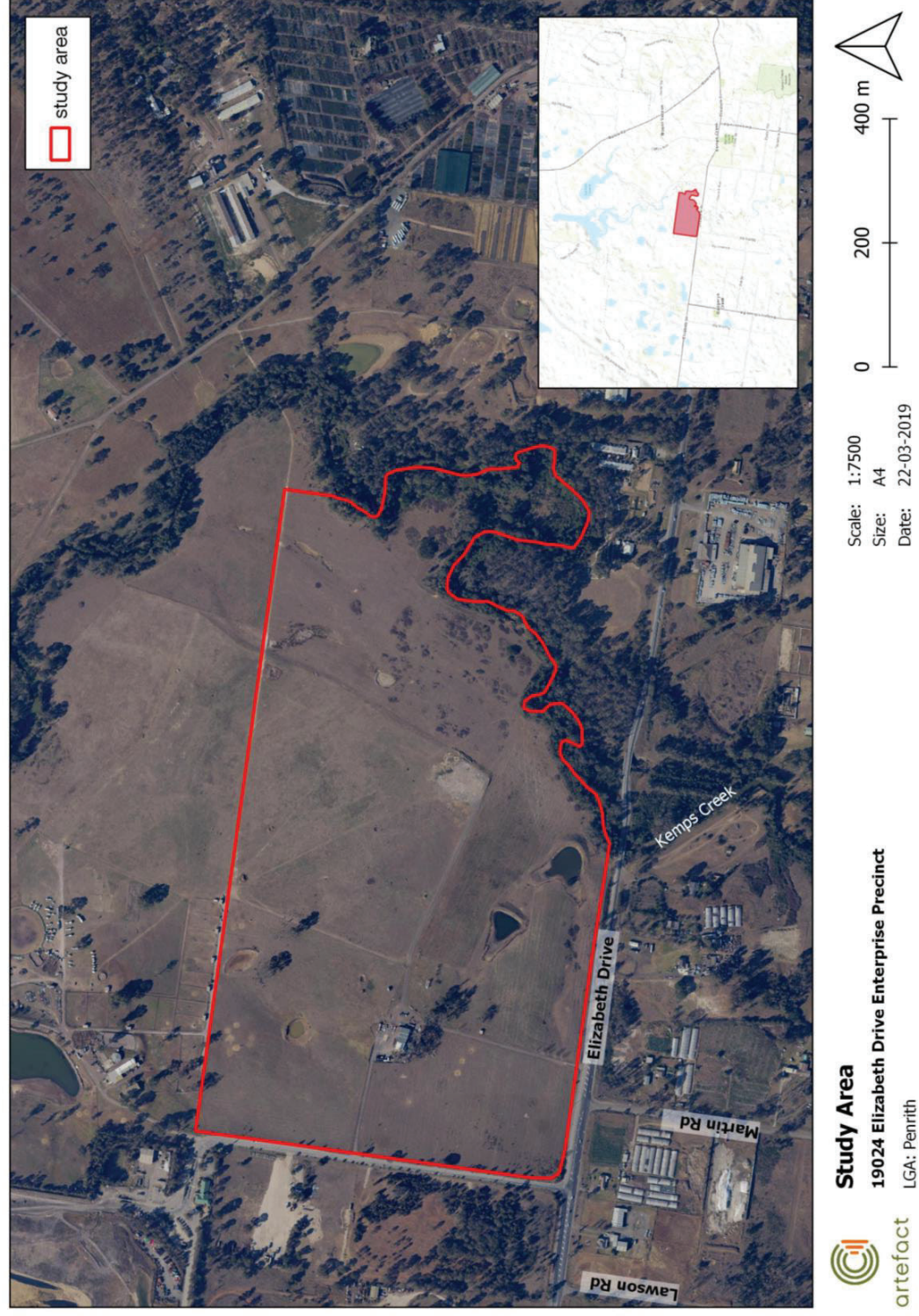
E: [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

P: 02 9518 8411

W: [www.artefact.net.au](http://www.artefact.net.au)

A: Level 4 Building B 35 Saunders Street Pyrmont NSW 2009

Figure 1: Map of study area



## Anna Darby

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**From:** Anna Darby  
**Sent:** Thursday, 18 April 2019 3:10 PM  
**To:** gs.ach@environment.nsw.gov.au  
**Cc:** Alyce Haast  
**Subject:** Notification of project and identification of Interested Aboriginal Parties: Elizabeth Enterprise Precinct  
**Attachments:** Agency letter Elizabeth Enterprise\_OEH.pdf

Dear Sir or Madam,

I am commencing Aboriginal consultation for Elizabeth Enterprise Precinct, Badgerys Creek. Please find attached a letter regarding step 4.1.2 – 'Notification of project proposal and registration of interest' of the Aboriginal cultural heritage consultation requirements for proponents 2010.


Kind regards,

**Anna Darby**  
**Heritage Consultant**

### **ARTEFACT**

**Telephone:** 61 2 9518 8411 **Mobile:** 0413 281 439  
**Address:** Level 4, Building B, 35 Saunders Street, Pyrmont NSW 2009  
**Web:** [www.artefact.net.au](http://www.artefact.net.au)

Cultural Heritage Management | Archaeology | Heritage Interpretation

 *We acknowledge the Traditional Custodians of Country in which we live and work, and pay our respects to them, their culture and their Elders past, present and future*

**Notice:** This message contains privileged and confidential information intended only for the use of the addressee. If you are not the intended recipient you must not disseminate, copy or take any action in reliance upon it. If you received this in error, please notify us immediately.



artefact

18 April 2019

Office of Environment and Heritage  
Environment Protection and Regulation  
PO Box 644  
Parramatta NSW 2124

Dear Sir or Madam,

**Re: Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site.

The Stage 1 site location is shown within Figure 1 below.

It is likely that Aboriginal objects will be impacted by the proposal and at least one application for an Aboriginal Heritage Impact Permit (AHIP) under section 90 of the National Parks and Wildlife Act 1974 will be required. Mirvac has engaged Artefact Heritage to complete an Aboriginal Cultural Heritage assessment for the project, including consultation in accordance with the Aboriginal cultural heritage consultation requirements for proponents 2010 (DECCW 2010).

The contact details for the proponent are:

Russell Hogan  
Development Manager  
Mirvac  
Level 28, 200 George Street Sydney NSW 2000  
(02) 9080 8154  
Russell.Hogan@mirvac.com

Mirvac wishes to consult with any Aboriginal persons or organisations that hold cultural knowledge relevant to determining the significance of Aboriginal objects and places in Badgerys Creek. The purpose of the community consultation is to assist the proponent in the preparation of an AHIP application and to assist the Office of Environment and Heritage in determination of the application.

Consultation will also be used to inform on assessment required for further development within stage 1 of the EEP which may be subject to additional development consent processes. Additional consent processes may include State Significant development under the Environmental Planning and Assessment Act 1979.

In line with the relevant consultation guidelines, I am writing to you to request names and contact details that your organisation has for Aboriginal people or groups that hold cultural knowledge relevant to determining the significance of Aboriginal objects or places within Badgerys Creek. Please forward any information available before **10 May 2019** to:

Anna Darby  
Artefact Heritage  
Building B, Level 4, 35 Saunders Street  
Pyrmont NSW 2009

or email [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

Yours sincerely,

A handwritten signature in dark ink, appearing to read 'A Darby', with a stylized flourish at the end.

Anna Darby  
Heritage consultant  
Artefact Heritage

E: [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

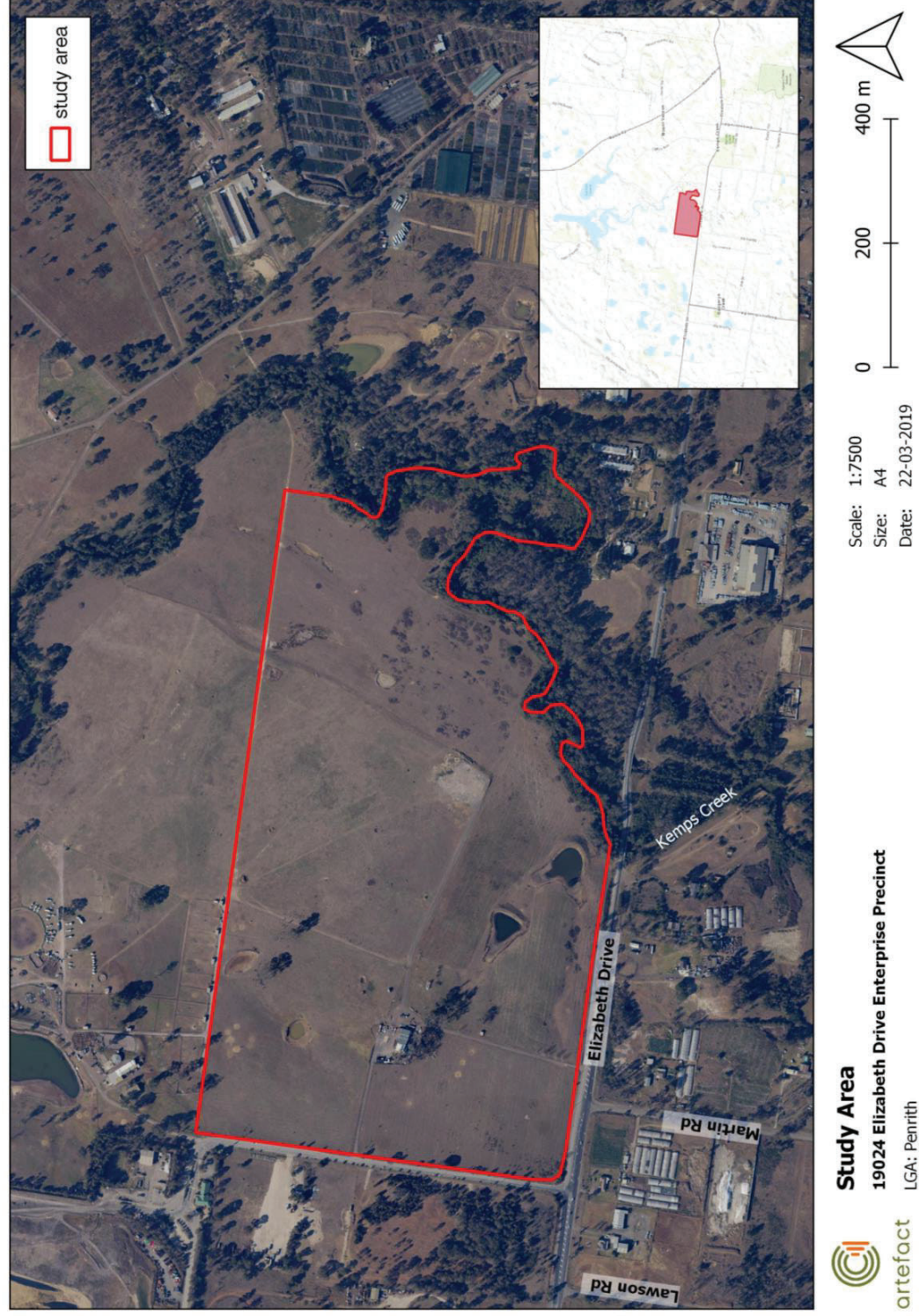
P: 02 9518 8411

W: [www.artefact.net.au](http://www.artefact.net.au)

A: Level 4 Building B 35 Saunders Street Pyrmont NSW 2009



Figure 1: Map of study area



## Agency responses

## Anna Darby

---

**From:** Geospatial Search Requests <GeospatialSearch@NNTT.gov.au>  
**Sent:** Wednesday, 24 April 2019 10:44 AM  
**To:** Anna Darby  
**Subject:** RE: SR5748 - Notification of project and identification of Interested Aboriginal Parties: Elizabeth Enterprise Precinct - SR5748

### UNCLASSIFIED

**Native title search** – *NSW Freehold Parcel – Lot 5 on DP860456*

**Your ref:** 1669-1723 Elizabeth Drive - **Our ref:** SR5748

Dear Anna Darby,

Thank you for your search request received on 18 April 2019 in relation to the above area.

**Please note:** Records held by the National Native Title Tribunal as at 23 April 2019 indicate that the identified parcel appears to be freehold, and freehold tenure extinguishes native title.

The National Native Title Tribunal does not hold data sets for freehold tenure; consequently, we **cannot** conduct searches over freehold. For confirmation of freehold data, please contact the NSW Land and Property Information office or seek independent legal advice.

For further information, please visit our [website](#).

#### ***Cultural Heritage Searches in NSW***

The National Native Title Tribunal (the Tribunal) has undertaken steps to remove itself from the formal list of sources for information about indigenous groups in development areas. The existence or otherwise of native title is quite separate to any matters relating to Aboriginal cultural heritage. Information on native title claims, native title determinations and Indigenous Land Use Agreements is available on the Tribunal's website.

Interested parties are invited to use Native Title Vision (NTV) the Tribunal's online mapping system to discover native title matters in their area of interest. Access to NTV is available at

<http://www.nntt.gov.au/assistance/Geospatial/Pages/NTV.aspx>

Training and self-help documents are available on the NTV web page under "Training and help documents". For additional assistance or general advice on NTV please contact [GeospatialSearch@NNTT.gov.au](mailto:GeospatialSearch@NNTT.gov.au)

Additional information can be extracted from the Registers available at

<http://www.nntt.gov.au/searchRegApps/Pages/default.aspx>

If you have any further queries, please do not hesitate to contact us on the free call number 1800 640 501.

Regards,

#### **Geospatial Searches**

**National Native Title Tribunal | Perth**

Email: [GeospatialSearch@nntt.gov.au](mailto:GeospatialSearch@nntt.gov.au) | [www.nntt.gov.au](http://www.nntt.gov.au)

---

**From:** Anna Darby <[Anna.darby@artefact.net.au](mailto:Anna.darby@artefact.net.au)>

**Sent:** Thursday, 18 April 2019 3:10 PM

**To:** Enquiries <[Enquiries@nntt.gov.au](mailto:Enquiries@nntt.gov.au)>

**Cc:** Alyce Haast <[Alyce.Haast@artefact.net.au](mailto:Alyce.Haast@artefact.net.au)>

**Subject:** Notification of project and identification of Interested Aboriginal Parties: Elizabeth Enterprise Precinct

Dear Sir or Madam,

I am commencing Aboriginal consultation for Elizabeth Enterprise Precinct, Badgerys Creek. Please find attached a letter regarding step 4.1.2 – 'Notification of project proposal and registration of interest' of the Aboriginal cultural heritage consultation requirements for proponents 2010.

Kind regards,

**Anna Darby**  
**Heritage Consultant**


**ARTEFACT**

**Telephone:** 61 2 9518 8411 **Mobile:** 0413 281 439

**Address:** Level 4, Building B, 35 Saunders Street, Pyrmont NSW 2009

**Web:** [www.artefact.net.au](http://www.artefact.net.au)

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If you received this in error, please notify us immediately.

## Anna Darby

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**From:** Margaret Bottrell <margaret.bottrell@lls.nsw.gov.au>  
**Sent:** Monday, 29 April 2019 7:41 AM  
**To:** Anna Darby  
**Subject:** Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

To Anna Darby,

**RE: Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Thank you for your letter dated 18 April 2019, requesting assistance with identifying Aboriginal stakeholder groups or persons who may have an interest in your project area.

Greater Sydney Local Land Services (GS LLS) acknowledges that Local Land Services have been listed in *Section 4.1.2 (g)* of the *Aboriginal cultural heritage consultation requirements for proponents 2010*, under *Part 6, National Parks and Wildlife Act 1974* as a source of information to obtain the “names of Aboriginal people who may hold cultural knowledge relevant to determining the significance of Aboriginal *objects* and/or *places*”.

GS LLS is a partner with many Aboriginal communities in the region on many natural resource management (NRM) projects. However, GS LLS is not the primary source for contacting or managing contact lists for Aboriginal communities or persons that may inform or provide comment on planning issues. GS LLS considers cultural heritage issues that relate to land-use planning in general and only considers culture and heritage issues in the context of NRM.

We strongly recommend that you make contact with the Office of Environment and Heritage (OEH), Cultural Heritage Division, for all-inclusive contact lists of persons and organisations that may assist with your investigation.

**Note:** Hawkesbury Nepean Catchment Management Authority (HNCMA) no longer exists. All work previously carried out by HNCMA is now delivered by Greater Sydney Local Land Services (GS LLS).

Regards,

--

**Margaret Bottrell** Senior Strategic Land Services Officer  
(Aboriginal Communities)

Greater Sydney Local Land Service

Level 4, 2-6 Station Street Penrith

PO Box 4515 Penrith Westfields NSW 2750

T: 02 47242111

E: [margaret.bottrell@lls.nsw.gov.au](mailto:margaret.bottrell@lls.nsw.gov.au)

W: <http://www.lls.nsw.gov.au>







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## Anna Darby

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**From:** Barry Gunther <Barry.Gunther@environment.nsw.gov.au>  
**Sent:** Wednesday, 1 May 2019 9:23 AM  
**To:** Anna Darby  
**Subject:** OEH Aboriginal Stakeholder list 1669-1723 Elizabeth Drive Badgerys Creek  
**Attachments:** 20190430142055493.pdf

Hi Anna,

Thank you for your letter dated 18<sup>th</sup> April 2019 requesting the OEH Aboriginal Stakeholder list for consultation.

Please find attached the OEH Aboriginal Stakeholder list for the proposed development at 1669-1723 Elizabeth Drive Badgerys Creek NSW.

If you have any questions please contact me on the details below

Regards

Barry Gunther  
Aboriginal Heritage Planning Officer  
[www.environment.nsw.gov.au](http://www.environment.nsw.gov.au)



Office of  
Environment  
& Heritage

Greater Sydney Branch  
Communities and Greater  
Sydney Division

10 Valentine Avenue, Parramatta 2150  
PO Box 644, Parramatta 2124  
T 02 88376394

The Greater Sydney ACH Team has a group email address: [gs.ach@environment.nsw.gov.au](mailto:gs.ach@environment.nsw.gov.au). Please address all further email correspondence in relation to Aboriginal cultural heritage regulation matters in the Greater Sydney region to this address. If appropriate, emails can be marked to the attention of your usual contact in the Team.

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PLEASE CONSIDER THE ENVIRONMENT BEFORE PRINTING THIS EMAIL



Office of  
Environment  
& Heritage

Our reference: Doc19/358421

Anna Darby  
Heritage Consultant  
Artefact Heritage  
Building B, Level 4  
35 Saunders Street  
Pyrmont NSW 2009

Dear Anna,

Thank you for your letter dated 18<sup>th</sup> April 2019 to the Office of Environment and Heritage (OEH) regarding obtaining a list of the Aboriginal stakeholders that may have an interest in an Aboriginal Cultural Heritage Assessment for a proposed development, Stage 1 bulk earthworks at 1669-1723 Elizabeth Drive Badgerys Creek NSW.

Before making an application for the issue of an Aboriginal Heritage Impact Permit, the applicant must carry out an Aboriginal community consultation process in accordance with the National Parks and Wildlife Regulation 2009 and completed to the stage described in subclause 80C.

Please find attached the list of Aboriginal stakeholders known to OEH that may have an interest in the project. OEH's list of regional stakeholders is a list of groups, organisations or individuals who may hold cultural knowledge relevant to a proposal in a region. You should contact the stakeholders who have indicated an interest in the Local Government Area (LGA) relevant to your project. Contact details are correct as at the time of registration. Consultation with Aboriginal people should not be confused with employment. Inclusion on the OEH's list is not an automatic right to employment. It is the decision of a proponent on who they choose to engage to deliver services based on a range of considerations including skills, relevant experience, and WHS considerations. To be clear, the proponent is under no obligation to employ Aboriginal people registered for consultation.

Further, receipt of this information does not remove the requirement of a proponent/consultant to advertise in local print media and contact other bodies seeking interested Aboriginal parties. Consultation with Aboriginal stakeholders must be in accordance with the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* which can be found on the Office of Environment and Heritage (OEH) public website by accessing the following link:

<http://www.environment.nsw.gov.au/resources/cultureheritage/commconsultation/09781ACHconsultreq.pdf>

If you wish to discuss any of the above matters further please email [gs.ach@environment.nsw.gov.au](mailto:gs.ach@environment.nsw.gov.au).

Please note that subclause 80C(4) of the NPW Reg 2009 requires that the notification of potential stakeholders by letter and newspaper **must include the name and contact details of the proponent**. Any consultation undertaken that does not comply with the consultation requirements may not be considered sufficient to support an application for an AHIP. In this case OEH may require a new consultation process be undertaken in accordance with the consultation requirements before issuing an AHIP.

Yours sincerely

*S. Harrison 29/04/19*

**Susan Harrison**  
**Senior Team Leader Planning**  
**Greater Sydney Branch**  
**Communities and Greater Sydney Division**



artefact

18 April 2019

Office of Environment and Heritage  
Environment Protection and Regulation  
PO Box 644  
Parramatta NSW 2124

Dear Sir or Madam,

**Re: Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site.

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Mirvac  
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Russell.Hogan@mirvac.com

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Consultation will also be used to inform on assessment required for further development within stage 1 of the EEP which may be subject to additional development consent processes. Additional consent processes may include State Significant development under the Environmental Planning and Assessment Act 1979.

In line with the relevant consultation guidelines, I am writing to you to request names and contact details that your organisation has for Aboriginal people or groups that hold cultural knowledge relevant to determining the significance of Aboriginal objects or places within Badgerys Creek. Please forward any information available before **10 May 2019** to:

Anna Darby  
Artefact Heritage  
Building B, Level 4, 35 Saunders Street  
Pyrmont NSW 2009



or email [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

Yours sincerely,



Anna Darby  
Heritage consultant  
Artefact Heritage

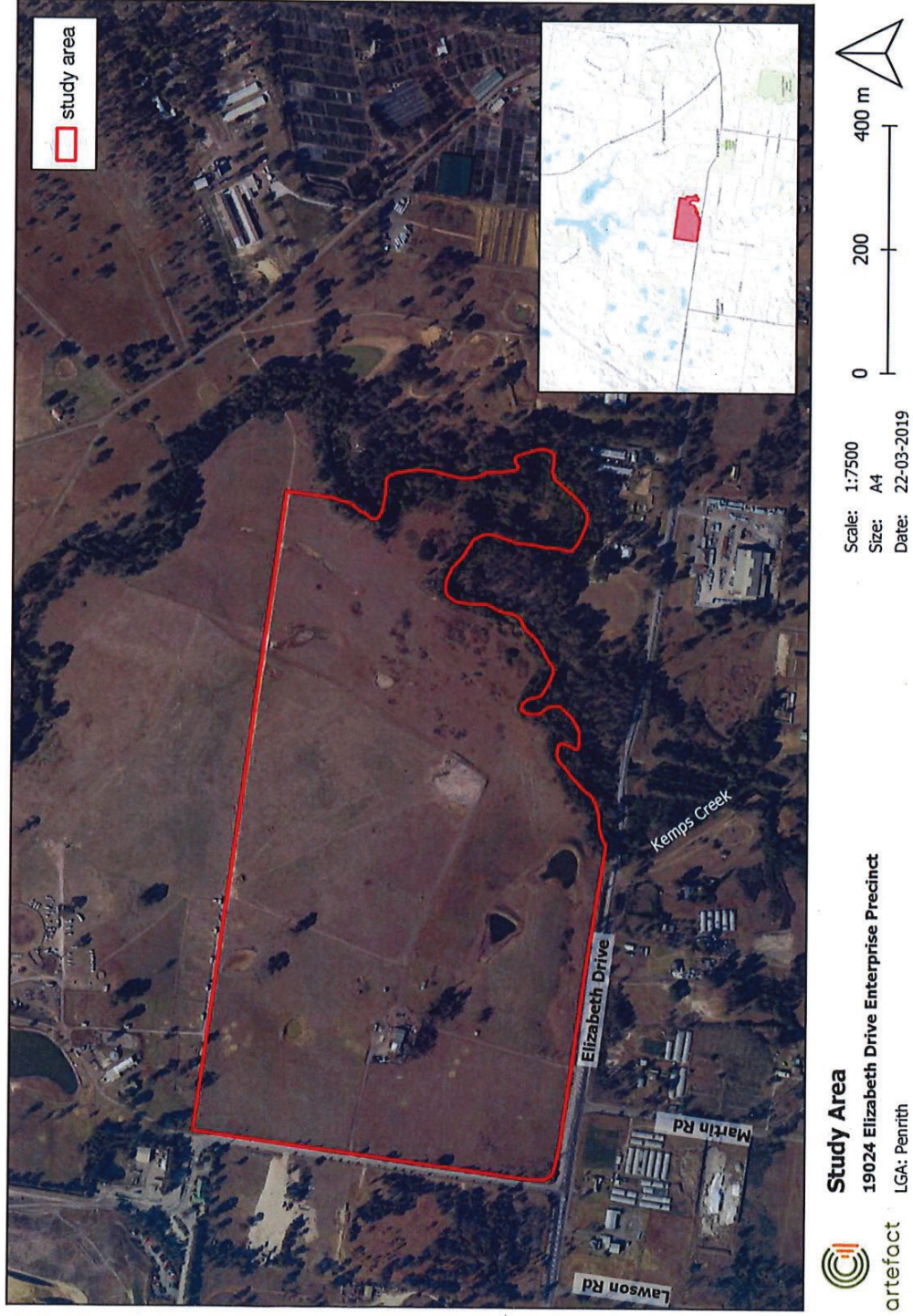
E: [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

P: 02 9518 8411

W: [www.artefact.net.au](http://www.artefact.net.au)

A: Level 4 Building B 35 Saunders Street Pyrmont NSW 2009

Figure 1: Map of study area







**LIST OF ABORIGINAL STAKEHOLDERS FOR THE GREATER SYDNEY BRANCH HELD BY OEH FOR THE PURPOSES OF THE ABORIGINAL CULTURAL HERITAGE CONSULTATION REQUIREMENTS FOR PROPONENTS 2010**

These lists are provided to proponents in accordance with section 4.1.2 of the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (the "Consultation Requirements") which commenced on 12 April 2010.

The consultation process involves getting the views of, and information from, Aboriginal people and reporting on these. It is not to be confused with other field assessment processes involved in preparing a proposal and an application. Consultation does not include the employment of Aboriginal people to assist in field assessment and/or site monitoring. Aboriginal people may provide services to proponents through a contractual arrangement however, this is separate from consultation. The proponent is not obliged to employ those Aboriginal people registered for consultation. Consultation as per these requirements will continue irrespective of potential or actual employment opportunities for Aboriginal people.

A copy of the Consultation Requirements can be found on the OEH website at: <http://www.environment.nsw.gov.au/resources/cultureheritage/commconsultation/09781ACHconsultreq.pdf>.

Under the Consultation Requirements, a proponent is required to provide Aboriginal people who hold cultural knowledge relevant to determining the cultural significance of Aboriginal objects and/or places as relevant to the proposed project area, with an opportunity to be involved in consultation. Section 3.3.1 of the Consultation Requirements states that Aboriginal people who can provide this information are, based on Aboriginal lore and custom, the traditional owners or custodians of the land that is the subject of the proposed project.

The Consultation Requirements also state that:

- Traditional owners or custodians with appropriate cultural heritage knowledge to inform decision making who seek to register their interest as an Aboriginal party are those people who:*
- *continue to maintain a deep respect for their ancestral belief system, traditional lore and custom*
  - *recognise their responsibilities and obligations to protect and conserve their culture and heritage and care for their traditional lands or Country*
  - *have the trust of their community, knowledge and understanding of their culture, and permission to speak about it.*

Please note: the placement of an organisation's name on any OEH Aboriginal stakeholder list for the Consultation Requirements does not override a proponent's requirement to also advertise in the local newspaper and to seek from other sources the names of any other Aboriginal people who may hold cultural knowledge as required under clause 80C of the *National Parks and Wildlife Regulation 2009*.

**How to use this list**

1. Determine which Local Government Areas (LGAs) your project area falls into
2. Identify which organisations and individuals on the list have an interest in the LGAs relevant to your project – identified in column 6 of the list
3. Contact the organisations/individuals who have indicated an interest in the relevant LGAs and invite them to register an interest in your project

Do not reproduce the attached list in publicly available reports and other documents. Your report should only contain the names of the organisations and individuals who you have invited to register an interest in your project and those who have registered as stakeholders for your project.

**PLEASE NOTE: THE STAKEHOLDER LIST HAS NOT BEEN UPDATED TO INCLUDE THE RECENT**

**COUNCIL MERGERS AND NAME CHANGES. PLEASE CONSIDER THE PRE-MERGER COUNCIL**

**BOUNDARIES WHEN DETERMINING WHO SHOULD BE INVITED TO REGISTER FOR YOUR**

**PROJECT.** Last update is 25<sup>th</sup> March 2019

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Address	Postal	LGA's	Additional Information
Deerubbin Local Aboriginal Land Council	Kevin Cavanagh	(02) 4724 5600	Not provided	2/9 Tindale St, Penrith NSW 2750		Hawkesbury Blacktown Penrith Fairfield	Holroyd Blue Mountains The Hills Shire Parramatta
Tharawal Local Aboriginal Land Council	Rebecca Ede (CEO)	(02) 46810059	<a href="mailto:ceo@tharawal.com.au">ceo@tharawal.com.au</a> <a href="mailto:reception@tharawal.com.au">reception@tharawal.com.au</a>	PO Box 245 Thirimere NSW 2572		Camden Campbelltown Wollondilly	Sutherland Liverpool
Metropolitan Local Aboriginal Land Council	Nathan Moran	(02) 83949666	Not provided	PO Box 1103 Strawberry Hills NSW 2016		The Hills Shire Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Stratfield Burwood Ashfield Auburn Canada Bay	Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Wollonghby
Gandangara Local Aboriginal Land Council	Not provided	(02) 96025280	Not provided	PO Box 1038 Liverpool NSW 2170		Liverpool Fairfield Holroyd Parramatta	Auburn Bankstown Sutherland
La Perouse Local Aboriginal Land Council	Chris Ingrey	(02) 9311 4282	Not provided	PO Box 365 Matraville NSW 2036		Sutherland Randwick Botany Bay Waverly	Woolahra Sydney Rockdale
Parramatta City Council Aboriginal Advisory Committee	Parramatta City Council	(02)9806 5050	Not provided	PO Box 32, Parramatta, NSW, 2124		Parramatta	
Holroyd City Council Advisory Committee	Holroyd City Council	(02) 9840 9840	Not provided	P.O. Box 42, Merrylands, NSW 2160		Holroyd	
Darug Custodian Aboriginal Corporation	Justine Coplin	0414 962 766	<a href="mailto:justinecoplin@optusnet.com.au">justinecoplin@optusnet.com.au</a>	PO Box 81, Windsor NSW 2756		Hawkesbury Blacktown Penrith Fairfield Holroyd Blue Mountains	Camden Campbelltown The Hills Shire Liverpool Parramatta
Darug Tribal Aboriginal Corporation	Not provided	02 9622 4081	Not provided	PO Box 441, Blacktown NSW 2148		Hawkesbury Blacktown Penrith Fairfield Holroyd Blue Mountains	Camden Campbelltown The Hills Shire Liverpool Parramatta
Darug Aboriginal Cultural Heritage Assessments	Gordon Morton	02 9410 3665 or 0422 865 831	Not provided	Unit 9, 6 Chapman Avenue, Chatswood, NSW 2067		Hawkesbury Blacktown Penrith Fairfield Holroyd Blue Mountains Camden Campbelltown The Hills Shire	Strathfield Burwood Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney



Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Address	Postal	LGA's		Additional information
						Liverpool Parramatta Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown	Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby	
Darug Land Observations	Jamie Workman and Anna Workman	0418 494 951 0413 687 279	daruglandobservations@gmail.com	PO Box 173, Ulladulla, NSW 2539		Ashfield Auburn Bankstown Blacktown Blue Mountains Botany Bay Burwood Camden Campbelltown Canada Bay Canterbury Fairfield Hawkesbury The Hills Holroyd Hornsby Hunter's Hill Hurstville Kogarah Ku-ring-gai Lane Cove	Leichhardt Liverpool Manly Marrickville Mosman North Sydney Parramatta Perith Pittwater Randwick Rockdale Ryde Strathfield Sutherland Sydney Warringah Waverley Willoughby Woollahra Woolondilly	
Des Dyer		0408 360 814	Not provided	18a Pergees Close, Doonside 2767		Hawkesbury Blacktown Penrith Fairfield Holroyd	Camden Campbelltown The Hills Shire Liverpool Parramatta	
Ken Foster		0411 818 091	Not provided	68 Australia St Matraville		Sutherland		
La Perouse Botany Bay Corporation	Yvonne Simms	04660 94491	Fax (02) 9311 3440	10 Murrong Place, La Perouse NSW 2036		Sutherland		
Norma Simms		04660 94491	Not provided	10 Murrong Place, La Perouse NSW 2036		Sutherland		
Matthew and Andrew Coe		(08)83442196	Not provided	37 Derlanger Avenue, Collingswood, South Australia 5081		Sutherland		
Gundungurra Aboriginal Heritage Association Inc	Merl Williams	02 4757 3223	Not provided	PO Box 31, Lawson NSW 2783		Blue Mountains		
Gundungurra Tribal Council Aboriginal Corporation	Sharon Brown	02 4729 3713	Not provided	PO Box 7244, Leura NSW 2780		Blue Mountains		
Trevor Robinson		Not provided	Not provided	PO Box 73, Peak Hill, NSW 2869		Blue Mountains		

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Address	Postal	LGA's	Additional information
Tania Matthews		0409 193 612/ (02) 67924038	<a href="mailto:aboriginalhistoryhunter@gmail.com">aboriginalhistoryhunter@gmail.com</a>	U2 11 Walowa Street, Narrabri, NSW 2390		Blue Mountains	
A1 Indigenous Services	Carolyn Hickey	0411 650 057	<a href="mailto:cazadirect@live.com">cazadirect@live.com</a>	10 Marie Pitt Place Glenmore Park 2745 NSW.		Blue Mountains Asfield Auburn Bankstown Blacktown Blue Mountains Botany Bay Burwood Camden Campbelltown Canada Bay Canterbury Fairfield Hawkesbury The Hills Holroyd Hornsby Hunter's Hill Hurstville Kogarah Ku-ring-gai Lane Cove Leichhardt Liverpool Manly Marrickville Mosman North Sydney Parramatta Penrith Pittwater Randwick Rockdale Ryde Stratfield Sutherland Sydney Warringah Waverley Willoughby Woollahra Wollondilly	Carolyn is Wonnarua
Cubbitch Barta	Glenda Chalke	0427 218 425	Not provided	55 Nightingale Rd, Pheasants Nest NSW 2574		Camden Campbelltown	Liverpool Wollondilly
	Rebecca Chalke	Not Provided	Not provided	99 Menangle street, Picton 2571			

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Address	Postal	LGA's	Additional information	
Eric Keidge		04311 66423	Not provided	11 Olsson Close Hornsby Heights NSW 2077		The Hills Shire Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Stratfield Burwood Ashfield Auburn Canada Bay	Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby	
Gunjeewong Cultural Heritage Aboriginal Corporation	Cherie Carroll Turrise	(02) 6355 4110 0456 116 408	<a href="mailto:cheriecarroll68@yahoo.com">cheriecarroll68@yahoo.com</a>	1 Bellvue Place, Portland NSW, 2847		Hawkesbury Blacktown Penrith Fairfield	Holroyd Camden Campbelltown Parramatta	Cherie is a Ngunnawal Elder however lived in the Western Sydney area during her childhood. She recognises she is not from the area but has associations
	Contact details have changed as the above contact details have been hacked as of January 2018	0438 428 805 or 0409 558 846	<a href="mailto:Gunjeewong53@hotmail.com">Gunjeewong53@hotmail.com</a>					
Merrigam Indigenous Corporation	Shaun Carroll	0435 040 842	Not provided	GPO Box 158, Canberra City, ACT, 2601		Hawkesbury Blacktown Penrith Fairfield	Holroyd Camden Campbelltown Parramatta	Shaun is Ngunnawal and is Cherie's brother. NOTE: It has been reported to OEH that the contact details for this group are incorrect; however, OEH has not been provided with revised contact details.
Corroboree Aboriginal Corporation	Marilyn Carroll- Johnson	0415911159	<a href="mailto:corroboreecorp@bigpond.com">corroboreecorp@bigpond.com</a>	PO Box 3340, Rouse Hill, NSW 2155		Western Sydney Camden	Campbelltown Parramatta	Ngunnawal and lives in Western Sydney
Murra Bidgee Mullangari Aboriginal Corporation	Darleen Johnson	0490 051 102	Not provided	PO Box 246, Seven Hills, NSW, 2147		Hawkesbury Blacktown Penrith Fairfield	Holroyd Camden Campbelltown Parramatta	Ngunnawal and lives in Western Sydney
Muragadi Heritage Indigenous Corporation	Jesse Johnson	0447 970 049	Not provided	5 Hession Road, Nelson, NSW 2765		Western Sydney Camden	Campbelltown Parramatta	Ngunnawal and lives in Western Sydney
Bidjwong Aboriginal Corporation	James Carroll	0433 224 324	Not provided	PO Box 124, Round Corner, NSW 2158		Hawkesbury Blacktown Penrith Fairfield	Holroyd Camden Campbelltown Parramatta	
Phil Kahn		0434 545 982	Not provided	78 Forbes Street, Emu Plains, NSW 2750		Hawkesbury Blacktown Penrith Fairfield Holroyd	Camden Campbelltown Liverpool Parramatta	
Wurrumay Consultancy	Kerrie Slater	0423 935 556	<a href="mailto:wurrumay@hotmail.com">wurrumay@hotmail.com</a> ; <a href="mailto:Vicki.slater@hotmail.com">Vicki.slater@hotmail.com</a>	89 Pyramid street, Emu Plains NSW		Hawkesbury Blacktown	Camden Campbelltown	





Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Address	Postal	LGA's	Additional information
						Hornsby Hunter's Hill Hurstville Kogarah Ku-ring-gai Lane Cove  Ryde Warringah Willoughby Penrith Parramatta Murrumbidgee Wollondilly	
Widescope Indigenous Group	Steven Hickey and Donna Hickey	0425 230 693 (Steven) 0425 232 056 (Donna)	Not provided	73 Russell Street, Emu Plains, NSW 2750		Hawkesbury Blacktown Penrith  Fairfield Holroyd Parramatta Blue Mountains	
HSB Consultants	Patricia Hampton	0424 142 216	Not provided	62 Ropes Crossing Boulevard, Ropes Crossing 2760		Hawkesbury Blacktown Penrith  Fairfield Holroyd Parramatta	
Rane Consulting	Tony Williams	02 88246991	<a href="mailto:aiw1901@bigpond.com">aiw1901@bigpond.com</a>	1 Pyrenees Way Beaumont Hills NSW 2155		Hawkesbury Blacktown Penrith  Fairfield Holroyd Parramatta	
Anthony Williams		0456 399 687	Not provided	Unit 2 / 24 Goodwin Street Narrabeen NSW 2101		Hawkesbury Blacktown Penrith  Fairfield Holroyd Parramatta	
Dhinawan-Dhigaraa Culture & Heritage Pty Ltd	Ricky Fields	0402 942 572	<a href="mailto:dhinawan.fields@gmail.com">dhinawan.fields@gmail.com</a>	Not provided		Hawkesbury Blacktown Penrith  Fairfield Holroyd Parramatta	This group states that their boundaries (Murrumbidgee Peoples) extend from the Hawkesbury River to the Snowy River.
	Athol Smith	0449 665 715	Not provided	16 Yantara Place, Woodcroft, NSW, 2767		Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Murrumbidgee Bankstown Strathfield	
Gunyu	Kylie Ann Bell	Not provided	<a href="mailto:gunyuucts@gmail.com">gunyuucts@gmail.com</a>	Not provided		Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Murrumbidgee Bankstown Strathfield	
Walbunja	Hika Te Kowhai	0402 730 612	<a href="mailto:walbunja@gmail.com">walbunja@gmail.com</a>	Not provided		Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Burwood Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby	This group states that their boundaries (Murrumbidgee Peoples) extend from the Hawkesbury River to the Snowy River



Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Address	Postal	LGA's	Additional information	
						Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield	Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby	
Badu	Karia Lea Bond	0476 381 207	Not provided	11 Jeffery Place, Moruya, NSW 2537		Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield	Burwood Ashfield Auburn Canada Bay Leichhardt Marilyn Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River
Goobah Developments	Basil Smith	0405 995 725	Not provided	66 Grantham Road, Batemaven NSW, 2536		Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield	Burwood Ashfield Auburn Canada Bay Leichardt Marilyn Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River
Wullung	Lee-Roy James Boota	0403 703 942	Not provided	54 Blackwood Street, Gerringong, NSW, 2534		Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool	Burwood Ashfield Auburn Canada Bay Leichhardt Marilyn Mosman North Sydney	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River

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						Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield	Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby	
Yerramunra	Robert Parson	Not provided	<a href="mailto:yerramunra@gmail.com">yerramunra@gmail.com</a>	Not provided		Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield	Burwood Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River
Nundaguri	Newton Carriage	Not Provided	<a href="mailto:nundaguri@gmail.com">nundaguri@gmail.com</a>	Not Provided		Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield	Burwood Ashfield Auburn Canada Bay Leichardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River
Murrumbul	Mark Henry	Not provided	<a href="mailto:murrumbul@gmail.com">murrumbul@gmail.com</a>	Not provided		Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool	Burwood Ashfield Auburn Canada Bay Leichardt Manly Mosman North Sydney	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River.

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Address	Postal	LGA's		Additional information
						Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield	Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby	
Jerringong	Joanne Anne Stewart	0422 800 184	<a href="mailto:jerringong@gmail.com">jerringong@gmail.com</a>	Not provided		Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield	Burwood Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River
Pemulwuy CHTS	Pemulwuy Johnson	0425 066 100	<a href="mailto:pemulwuyd@gmail.com">pemulwuyd@gmail.com</a>	14 Top Place, Mt Annan		Hawkesbury Blacktown Penrith Fairfield Auburn Holroyd Camden Campbelltown The Hills Shire Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield	Strathfield Burwood Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River
Bilinga	Simalene Carriage	Not provided	<a href="mailto:bilingachts@gmail.com">bilingachts@gmail.com</a>	Not provided		Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool	Burwood Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River.

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						Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield	Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby	
Munyinga	Kaya Dawn Bell	Not provided	<a href="mailto:munyungachts@gmail.com">munyungachts@gmail.com</a>	Not provided		Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield	Burwood Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River.
Wingikara	Hayley Bell	Not provided	<a href="mailto:wingikarachts@gmail.com">wingikarachts@gmail.com</a>	Not provided		Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield	Burwood Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River.
Minnamunung	Aaron Broad	0402 526 888	Not provided	1 Waratah Avenue, Albion Park Rail NSW 2527		Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool	Burwood Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney	



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						Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield	Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby	
Walgalu	Ronald Stewart	Not provided	<a href="mailto:walgaluchts@gmail.com">walgaluchts@gmail.com</a>	Not provided		Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield Randwick Woolahra	Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby Blue Mountains Burwood The Hills Waverly Wollondilly	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River
Thauaira	Shane Carriage	Not provided	<a href="mailto:thauairachts@gmail.com">thauairachts@gmail.com</a>	Not provided		Hawkesbury Blacktown Penrith Fairfield Holroyd Manly Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield Randwick Woolahra	Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby Blue Mountains Burwood The Hills Waverly Wollondilly	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River
Dharug	Andrew Bond	Not provided	<a href="mailto:dharugchts@gmail.com">dharugchts@gmail.com</a>	Not provided		Hawkesbury Blacktown	Ashfield Auburn	This group states that their boundaries (Murrin



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						Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Stratfield Randwick Woollahra	Peoples) extend from the Hawkesbury River to the Snowy River
Bilinga Cultural Heritage Technical Services	Robert Brown	Not Provided	<a href="mailto:bilinga@mirramajah.com">bilinga@mirramajah.com</a>	Not Provided		Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Stratfield Randwick Woollahra	This group is a member of the Mirramajah Group of RAPS
Gunyuu Cultural Heritage Technical Services	Darlene Hoskins- McKenzie	Not Provided	<a href="mailto:gunyuu@mirramajah.com">gunyuu@mirramajah.com</a> <a href="mailto:management@mirramajah.com">management@mirramajah.com</a> (management & administrative email address for the Mirramajah Group of RAPs).	Not Provided		Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale	This group is a member of the Mirramajah Group of RAPS

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Address	Postal	LGA's		Additional Information
						Canterbury Marrickville Bankstown Strathfield Randwick Woollahra	Warringah Willoughby Blue Mountains Burwood The Hills Waverly Wollondilly	
Murrununga Cultural Heritage Technical Services	Suzannah McKenzie	Not Provided	<a href="mailto:murrununga@mirramajah.com">murrununga@mirramajah.com</a>	Not Provided		Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield Randwick Woollahra	Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby Blue Mountains Burwood The Hills Waverly Wollondilly	This group is a member of the Mirramajah Group of RAPs
Murrunbul Cultural Heritage Technical Services	Levi McKenzie- Kirkbright	Not Provided	<a href="mailto:murrunbul@mirramajah.com">murrunbul@mirramajah.com</a>	Not Provided		Hawkesbury Blacktown Penrith Fairfield Leichhardt Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield Randwick Woollahra	Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby Blue Mountains Burwood The Hills Waverly Wollondilly	This group is a member of the Mirramajah Group of RAPs
Wingikara Cultural Heritage Technical Services	Wandai Kirkbright	Not Provided	<a href="mailto:wingikara@mirramajah.com">wingikara@mirramajah.com</a>	Not Provided		Hawkesbury Blacktown Penrith Fairfield Holroyd	Ashfield Auburn Canada Bay Leichhardt Manly	This group is a member of the Mirramajah Group of RAPs



Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Address	Postal	LGA's	Additional information
						Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Stratfield Randwick Wollahra Wollondilly	
Gulaga	Wendy Smith	Not Provided	<a href="mailto:gulagachts@gmail.com">gulagachts@gmail.com</a>	Not Provided		Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Stratfield Randwick Wollahra Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby Blue Mountains Burwood The Hills Waverly Wollondilly	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River
Biamanga	Self Storer	Not Provided	<a href="mailto:biamangachts@gmail.com">biamangachts@gmail.com</a>	Not Provided		Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Address	Postal	LGA's	Additional information
						Strathfield Randwick Woollahra	
						Burwood The Hills Waverly Woollahra	
Callendulla	Corey Smith	Not Provided	<a href="mailto:cullendullachts@gmail.com">cullendullachts@gmail.com</a>	Not Provided		Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield Randwick Woollahra	This group states that their boundaries (Murrumbidgee) extend from the Hawkesbury River to the Snowy River
						Burwood The Hills Waverly Woollahra	
						Burwood The Hills Waverly Woollahra	
Murramarang	Roxanne Smith	Not Provided	<a href="mailto:murramarangchts@gmail.com">murramarangchts@gmail.com</a>	Not Provided		Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield Randwick Woollahra	This group states that their boundaries (Murrumbidgee) extend from the Hawkesbury River to the Snowy River
						Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield Randwick Woollahra	
						Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield Randwick Woollahra	
DJMD Consultancy	Darren Duncan	0410 510 397	<a href="mailto:darrenjduncan@gmail.com">darrenjduncan@gmail.com</a>	Not Provided		Hawkesbury Blacktown Penrith Parramatta Sydney Marrickville Strathfield Warringah	Darren is associated with Metro and Deerubbin LALCs



Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Address	Postal	LGA's	Additional information
						Willoughby Blue Mountains Burwood The Hills Ryde	Hunters Hill Hornsby Ku-Ring-Gai Pittwater
Butucarbin Aboriginal Corporation	Jennifer Beale	(02)9832 7167	<a href="mailto:koori@ozemail.com.au">koori@ozemail.com.au</a>	PO Box E18, Emerton, NSW 2770		Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Stratfield Randwick Woolahra	Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby Blue Mountains Burwood The Hills Waverly Wollondilly
Didge Ngunawal Clan	Lillie Carroll Paul Boyd	0426 823 944	<a href="mailto:diddengunawalclan@yahoo.com.au">diddengunawalclan@yahoo.com.au</a>	33 Carlye Crescent Cambridge Gardens NSW 2747		Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Stratfield Randwick Woolahra	Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby Blue Mountains Burwood The Hills Waverly Wollondilly
Ginninderra Aboriginal Corporation	Steven Johnson and Krystle Carroll	0406991221	<a href="mailto:Ginninderra.corp@gmail.com">Ginninderra.corp@gmail.com</a>	PO BOX 3143 Grose Vale NSW 2754		Hawkesbury Blacktown Penrith Fairfield Holroyd	Ashfield Auburn Canada Bay Leichhardt Manly



Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Address	Postal	LGA's		Additional information
						Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Banksstown Strathfield Randwick Woollahra	Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby Blue Mountains Burwood The Hills Waverly Wollondilly	
Garrara Aboriginal Corporation	Raymond Ingrey		<a href="mailto:raymond@barryu.org.au">raymond@barryu.org.au</a>			Sutherland Liverpool Camden Campbelltown Wollondilly		
Nerrigundah	Newton Carriage	0421 253 677	<a href="mailto:nerrigundachs@gmail.com">nerrigundachs@gmail.com</a>			Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Banksstown Strathfield Randwick Woolahra	Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby Blue Mountains Burwood The Hills Waverly	
Duncan Falk Consultancy	Duncan Falk	0406 610 644	<a href="mailto:duncanfalk@hotmail.com">duncanfalk@hotmail.com</a>	34 Robinia Drive, Bowral NSW 2576		Camden Campbelltown		
Sharon Hodgetts		0405288814	<a href="mailto:sharonhodgetts@hotmail.com">sharonhodgetts@hotmail.com</a>	21/29 Central Coast Hwy West Gosford 2250		Hawkesbury		
Waiwan Aboriginal Group	Philip Boney	0436 483 210	<a href="mailto:waaitan12@outlook.com">waaitan12@outlook.com</a>			Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool	Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove	

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Address	Postal	LGA's	Additional information
Guntawang Aboriginal Resources Incorporated	Wendy Morgan	0414 964 657 9601 7183	<a href="mailto:Wenlissa01@hotmail.com">Wenlissa01@hotmail.com</a>	113 Reservoir Road Mt Pritchard NSW 2170		Camden Campbelltown Liverpool Fairfield Holroyd Wollondilly Blue Mountains	Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby Blue Mountains Burwood The Hills Waverly
Barking Owl Aboriginal Corporation	Mrs Jody Kulakowski (Director)	0426 242 015	<a href="mailto:barkingowlcorp@gmail.com">barkingowlcorp@gmail.com</a>	2-65/69 Wehlow St. Mt Druitt		Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield Randwick Woolahra	Asfield Auburn Canada Bay Leichardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby Blue Mountains Burwood The Hills Waverly Wollondilly
Yulay Cultural Services	Arika Jalomaki (Manager)	0411 048 794	<a href="mailto:yulayculturalservices@gmail.com">yulayculturalservices@gmail.com</a>	15 Rowley Place, Airds NSW 2560		Deerubbin LALC Tharawal LALC Gandangarra LALC	LGA's of interest not specified, rather, LALC boundaries within which the organisation wish to be consulted
Thoorga Nura	John Carriage (Chief Executive Officer)	0401 641 299	<a href="mailto:thoorganura@gmail.com">thoorganura@gmail.com</a>	50B Hilltop Crescent, Surf Beach, 2536, NSW		Asfield Auburn Bankstown Blacktown Blue Mountains Botany Bay Burwood Camden	Leichhardt Liverpool Manly Marrickville Mosman North Sydney Parramatta Penrith

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Address	Postal	LGAs	Additional information	
						Campbelltown Canada Bay Canterbury Fairfield Hawkesbury The Hills Holroyd Hornsby Hunter's Hill Hurstville Kogarah Ku-ring-gai Lane Cove	Pittwater Randwick Rockdale Ryde Strathfield Sutherland Sydney Warringah Waverley Willoughby Woollahra Wollondilly	
Barraby Cultural Services	Lee Field (Manager)	0423 906 606	<a href="mailto:barrabyculturalservices@gmail.com">barrabyculturalservices@gmail.com</a>	6 Macgibbon Parade, Old Errowal Bay, NSW 2540		Tharawal LALC Gandagarra LALC	LGAs of interest not specified, rather, LALC boundaries within which the organisation wish to be consulted	
Yurrandaali Cultural Services	Bo Field (Manager)	0457 546 643	<a href="mailto:yurrandaali_cs@hotmail.com">yurrandaali_cs@hotmail.com</a>	3 Sheeran Street, Old Errowal Bay NSW 2540		Tharawal LALC Gandagarra LALC	LGAs of interest not specified, rather, LALC boundaries within which the organisation wish to be consulted	
Darug Boorooberongal Elders Aboriginal Corporation	Gordon Workman	0415 663 763	fax 02 9831 8868 <a href="mailto:boorooberongal@outlook.com">boorooberongal@outlook.com</a>	73 Judith Anderson Drive, Doonside NSW 2767		Ashfield Auburn Bankstown Blacktown Blue Mountains Botany Bay Burwood Camden Campbelltown Canada Bay Canterbury Fairfield Hawkesbury The Hills Holroyd Hornsby Hunter's Hill Hurstville Kogarah Ku-ring-gai Lane Cove	Leichhardt Liverpool Manly Marrickville Mosman North Sydney Parramatta Penrith Pittwater Randwick Rockdale Ryde Strathfield Sutherland Sydney Warringah Waverley Willoughby Woollahra Wollondilly	



Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Address	Postal	LGA's	Additional information
B.H. Heritage Consultants	Ralph Hampton	0435 785 138	<a href="mailto:hamptonralph46@gmail.com">hamptonralph46@gmail.com</a>	184 Captain Cook Drive Willmot 2770 NSW		Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Hunters Hill Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Stratfield Burwood Randwick Woollahra	Not a and Ralph would BOTH like to be notified of all projects
	Nola Hampton	0401 663 531	<a href="mailto:nhampton77@gmail.com">nhampton77@gmail.com</a>	95 Mount Ettalong Road Umina Beach 2257 NSW		Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby Blue Mountains Burwood The Hills Waverly Woollahra Wollondilly	
Ngambaa Cultural Connections	Karina Slater	0417861882	<a href="mailto:ngambaaculturalconnections@hotmail.com">ngambaaculturalconnections@hotmail.com</a>	6 Natchez Crescent, Greenfield Park NSW 2167		Ashfield Auburn Bankstown Blacktown Blue Mountains Botany Bay Burwood Camden Campbelltown Canada Bay Canterbury Fairfield Hawkesbury The Hills Holroyd Hornsby Hunters Hill Hurstville Kogarah Ku-ring-gai Lane Cove	LALC boundaries within which the organisation wish to be consulted:  Deerubbin LALC Gandangarra LALC Tharawal LALC
Goodradigbee Cultural & Heritage Aboriginal Corporation,	Caine Carroll	0410974236	<a href="mailto:goodradigbee1@outlook.com">goodradigbee1@outlook.com</a>	1 Morilla Road, East Kurralong NSW 2758		Ashfield Auburn Bankstown Blacktown Blue Mountains Botany Bay Burwood Camden Campbelltown Canada Bay	Leichhardt Liverpool Manly Marrickville Mosman North Sydney Parramatta Penrith Pittwater Randwick Rockdale

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Address	Postal	LGA's		Additional information
						Canterbury Fairfield Hawkesbury The Hills Holroyd Hornsby Hunter's Hill Hurstville Kogarah Ku-ring-gai Lane Cove	Ryde Strathfield Sutherland Sydney Warringah Waverley Willoughby Woollahra Wollondilly	
Mura Indigenous Corporation,	Phillip Carroll	0448824188	<a href="mailto:mura.indigenous.com.bigpond.com">mura.indigenous.com.bigpond.com</a>	11 Nargal Street Flinders NSW 2529		Ashfield Auburn Bankstown Blacktown Blue Mountains Botany Bay Burwood Camden Campbelltown Canada Bay Canterbury Fairfield Hawkesbury The Hills Holroyd Hornsby Hunter's Hill Hurstville Kogarah Ku-ring-gai Lane Cove	Leichhardt Liverpool Manly Marrickville Mosman North Sydney Parramatta Penrith Pittwater Randwick Rockdale Ryde Strathfield Sutherland Sydney Warringah Waverley Willoughby Woollahra Wollondilly	



## Appendix B

### Summary of the consultation process

#### Stage 1

##### Notification of project proposal and registration of interest

Proponents must compile a list of Aboriginal people who may have an interest in the proposed project area and hold knowledge relevant to determining the cultural significance of Aboriginal objects and/or places from reasonable sources of information, which include writing to:

- a. the relevant DECCW ERPG regional office
- b. the relevant Local Aboriginal Land Council(s) (LALC)
- c. the Registrar, *Aboriginal Land Rights Act*
- d. the National Native Title Tribunal
- e. Native Title Services Corporation (NTSCorp)
- f. relevant local council(s)
- g. relevant catchment management authorities.

The notification by letter and in the newspaper must include:

- a. the name and contact details of the proponent
- b. a brief overview of the proposed project that may be the subject of an application for an AHIP, including the location of the proposed project
- c. a statement that the purpose of community consultation with Aboriginal people is to assist the proposed applicant in preparing an application for an AHIP and to assist the Director General of DECCW in his or her consideration and determination of the application
- d. an invitation for Aboriginal people who hold knowledge relevant to determining the cultural significance of Aboriginal object(s) and/or place(s) in the area of the proposed project to register an interest in a process of community consultation with the proposed applicant regarding the proposed activity
- e. a closing date for the registration of interests.

Proponent writes to the Aboriginal people whose names were provided by organisations a to g and LALC(s) to notify them of the proposed project and opportunity to be involved in consultation and places notification in the local newspaper.

Aboriginal people have a minimum of 14 days after the letter was sent or the notice was published in the newspaper to register an interest.

Proponent records names of Aboriginal people who have registered an interest in being involved in consultation – the 'registered Aboriginal parties'.

#### Stage 2

##### Presentation of information about the proposed project

Proponent presents and/or provides proposed project information to registered Aboriginal parties.

Proponent may create an opportunity for registered Aboriginal parties to visit the proposed project site.

Proponent records or documents that information on the proposed project has been presented. This record or documentation should include any agreed outcomes and/or contentious issues that may require further discussion (where applicable).

Proponent should provide a copy of this record or documentation to registered Aboriginal parties.

Proponent provides a copy of the notification and record of the registered Aboriginal parties to DECCW and relevant LALC within 28 days of the closing date for registering an interest.

#### Stage 3

##### Gathering information about cultural significance

Proponent presents and/or provides the proposed methodology(s) for the cultural heritage assessment to the registered Aboriginal parties for comment.

Registered Aboriginal parties have a minimum of 28 days after the proponent provides the methodology(s) to provide written or oral comment.

Proponent considers input provided by registered Aboriginal parties and finalises methodology for implementation. Proponent documents how the input has been considered.

Proponent seeks information from registered Aboriginal parties to identify:

- a. whether there are any Aboriginal objects of cultural value
- b. whether there are places of cultural value (whether or not they are Aboriginal places declared under Section 84 of the NPW Act).

Proponent seeks input from registered Aboriginal parties on potential management options.

#### Stage 4

##### Review of draft cultural heritage assessment report

Proponent prepares draft cultural heritage assessment report and provides it to the registered Aboriginal parties for review and comment.

Registered Aboriginal parties have a minimum of 28 days after the proponent provides the draft report to review and provide written or oral comment.

Proponent provides/makes available the final cultural heritage assessment report and AHIP application to the registered Aboriginal parties and relevant LALCs within 14 days of an AHIP application being made to DECCW.

Proponent finalises cultural heritage assessment report. The final report is submitted to DECCW for consideration with the proponent's AHIP application.





### Section 4.1.3 - Advertisement

#### **Elizabeth Enterprise Precinct (EEP), Aboriginal Cultural Heritage Assessment – Invitation to Register an Interest**

On behalf of Mirvac, Artefact Heritage is undertaking an Aboriginal cultural heritage assessment of Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP) in advance of the proposed bulk earthworks. The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP 860456). The proponent's contact details are:

Russell Hogan  
Development Manager  
Mircac  
Level 28, 200 George Street Sydney NSW 2000  
(02) 9080 8154  
Russell.Hogan@mircac.com

We are inviting registrations of interest in the project from Aboriginal groups and individuals who hold cultural knowledge relevant to determining the significance of Aboriginal objects and/or places in the locality. The purpose of the community consultation is to assist the proponent in the preparation of an application for an Aboriginal Heritage Impact Permit for the proposal. The consultation will also assist the Office of Environment and Heritage in their consideration and determination of the application.

Consultation will also be used to inform on assessment required for further development within stage 1 of the EEP which may be subject to additional development consent processes. Additional consent processes may include State Significant Development under the Environmental Planning and Assessment Act 1979.

Please note that the consultation guidelines require us to provide details of the Registered Aboriginal Parties to the Office of Environment and Heritage and Deerubbin Local Aboriginal Land Council. In your response could you please advise if you would not like your details to be provided.

Please register your interest in the project by **10 May 2019** by contacting:

Anna Darby, Artefact Heritage  
Level 4, Building B, 35 Saunders Street, Pyrmont NSW 2009  
02 9518 8411  
anna.darby@artefact.net.au

#### **Elizabeth Enterprise Precinct (EEP), Aboriginal Cultural Heritage Assessment Invitation to Register an Interest**

On behalf of Mirvac, Artefact Heritage is undertaking an Aboriginal cultural heritage assessment of Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP) in advance of the proposed bulk earthworks. The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP 860456). The proponent's contact details are:

Russell Hogan  
Development Manager  
Mircac  
Level 28, 200 George Street Sydney NSW 2000  
(02) 9080 8154  
Russell.Hogan@mircac.com

We are inviting registrations of interest in the project from Aboriginal groups and individuals who hold cultural knowledge relevant to determining the significance of Aboriginal objects and/or places in the locality. The purpose of the community consultation is to assist the proponent in the preparation of an application for an Aboriginal Heritage Impact Permit for the proposal. The consultation will also assist the Office of Environment and Heritage in their consideration and determination of the application.

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Please note that the consultation guidelines require us to provide details of the Registered Aboriginal Parties to the Office of Environment and Heritage and Deerubbin Local Aboriginal Land Council. In your response could you please advise if you would not like your details to be provided.

Please register your interest in the project by **10 May 2019** by contacting:

Anna Darby, Artefact Heritage  
Level 4, Building B, 35 Saunders Street, Pyrmont NSW 2009

02 9518 8411  
anna.darby@artefact.net.au

# Opportunity to study journalism



**ABORIGINAL and Torres Strait Islander journalists** looking to dive deeper have an opportunity to apply for a scholarship to the Columbia University Graduate School of Journalism Summer Investigative Reporting Course in New York City.

The deadline for applications is May 4 and the course runs from July 8-26.

The scholarship will provide economy air fare, accommodation, course fees

and a small contribution to living expenses.

The scholarship is offered through Dart Centre Asia Pacific (DCAP) – a project of the Columbia University Graduate School of Journalism.

The first DCAP scholarship holder was Allan Clarke, who used his time at the Investigative Reporting Course to work on his Walkley award winning report on the unsolved death of Gomeri man Mark Haines.

DCAP will also make permanent a position on its Board of Directors for a First

Nations person. The first Aboriginal and Torres Strait Islander journalist to hold this position was Danny Teece-Johnson, a Gomeri NITV journalist. The position is currently held by Rachael Hocking, a Waripiri presenter and journalist on NITV's *The Point*.

Last year, Dart Centre Asia Pacific facilitated one of the largest gatherings of Indigenous journalists: a three-day retreat in the Blue Mountains focused on Indigenous trauma reporting.

**To apply for the scholarship, visit [dartcenter.org/resources/](http://dartcenter.org/resources/)**



Participants from the Dart Centre's 2018 Indigenous Trauma reporting workshop pose for a group photo.

## Aboriginal Cultural Heritage Assessment – Invitation to Register an Interest

Artefact Heritage on behalf of The Trust Company (Australia) Limited ATF WH Regent Trust is undertaking an Aboriginal cultural heritage assessment of the property known as 90-102 Regent Street, Redfern in advance of proposed redevelopment. Contact details for the proponent are The Trust Company (Australia) Limited ATF WH Regent Trust c/Sham De Smith, Urbis via email: [sdsmith@urbis.com.au](mailto:sdsmith@urbis.com.au).

The project will be assessed as a State Significant Development under the Environmental Planning and Assessment Act 1979. The purpose of community consultation is to assist the Director-General of the Department of Planning and Environment in the determination of the project.

The proponent therefore seeks to consult with all Aboriginal groups or individuals who hold cultural knowledge relevant to determining the significance of Aboriginal objects and/or places in the Redfern area.

Interested parties should register in writing, providing their name, address, email, phone number and information on their connection to the area.

Please register your interest in the project by **10 May 2019** by contacting:

Jennifer Norfolk, Artefact Heritage  
Building B, Level 4, 35 Saunders Street, Pyrmont NSW 2009  
02 9518 8411  
[jennifer.norfolk@artefact.net.au](mailto:jennifer.norfolk@artefact.net.au)

Please note that the consultation guidelines require us to provide details of the Registered Aboriginal Parties to the Office of Environment and Heritage and Metropolitan Local Aboriginal Land Council. In your response could you please advise if you would not like your details to be provided.

## Elizabeth Enterprise Precinct (EEP), Aboriginal Cultural Heritage Assessment – Invitation to Register an Interest

On behalf of Mirvac, Artefact Heritage is undertaking an Aboriginal cultural heritage assessment of Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP) in advance of the proposed bulk earthworks. The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgers Creek (Lot 5 DP 860456). The proponent's contact details are:

Russell Hogan  
Development Manager  
Mircac  
Level 28, 200 George Street Sydney NSW 2000  
(02) 9080 8154  
[Russell.Hogan@mircac.com](mailto:Russell.Hogan@mircac.com)

We are inviting registrations of interest in the project from Aboriginal groups and individuals who hold cultural knowledge relevant to determining the significance of Aboriginal objects and/or places in the locality. The purpose of the community consultation is to assist the proponent in the preparation of an application for an Aboriginal Heritage Impact Permit for the proposal. The consultation will also assist the Office of Environment and Heritage in their consideration and determination of the application.

Consultation will also be used to inform on assessment required for further development within stage 1 of the EEP which may be subject to additional development consent processes. Additional consent processes may include State Significant Development under the Environmental Planning and Assessment Act 1979.

Please note that the consultation guidelines require us to provide details of the Registered Aboriginal Parties to the Office of Environment and Heritage and Deerubbin Local Aboriginal Land Council. In your response could you please advise if you would not like your details to be provided.

Please register your interest in the project by **10 May 2019** by contacting:

Anna Darby, Artefact Heritage  
Level 4, Building B, 35 Saunders Street, Pyrmont NSW 2009  
02 9518 8411  
[anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

## MOBILE VOTING TEAMS FOR THE FEDERAL ELECTION

A remote voting team from the Australian Electoral Commission (AEC) will be visiting soon so voters living in remote communities can vote in the federal election.

If you will not be able to attend one of the locations listed below you should contact the AEC for information on how you can vote.

Division of Farrer			
POONCARIE	Pooncarie Post Office	Thursday 16 May	10am–3pm
Division of Parkes			
BOGGABILLA	Toomelah Community Hall	Monday 13 May	3–5pm
BOURKE	Bourke Health Service	Thursday 09 May	9–10.30am
	Rivergum Lodge	Wednesday 08 May	1.40–3.40pm
BULLARAH	Bullarah	Tuesday 14 May	10am–12pm
CARINDA	Carinda Town Hall	Wednesday 15 May	9.30–11.30am
COOLABAH	Coolabah Community Hall	Monday 06 May	12–3pm
ENNGONIA	Enngonia War Memorial Hall	Wednesday 08 May	9–11am
IVANHOE	Ivanhoe Community Hall	Saturday 18 May	8am–1pm
LOUTH	Louth Tennis Club	Thursday 09 May	1.20–3.20pm
MURRIN BRIDGE	Murrin Bridge Pre-School	Friday 17 May	10am–12pm
NYMAGEE	Nymagee Community Hall	Thursday 16 May	12.15–2.15pm
QUAMBONE	Quambone Town Hall	Wednesday 15 May	2.30–4.30pm
ROWENA	Rowena Public School	Tuesday 14 May	3–5pm
TIBOOBURRA	Tibooburra CWA Room	Tuesday 14 May	1.30–4.30pm
TILPA	Tilpa Community Centre	Friday 10 May	9–11am
WANAARING	Wanaaring & District Soldiers Memorial Hall	Wednesday 15 May	12.30–3.30pm
WEILMORINGLE	Weilmoringle LALC	Tuesday 07 May	10.45am–12.45pm
WHITE CLIFFS	White Cliffs Community Hall	Thursday 16 May	12.30–3.30pm

**The remote voting schedule listed above can change.** To confirm locations and times please visit [www.aec.gov.au](http://www.aec.gov.au), contact your local community office, local council or call **13 23 26**.

**Voting is compulsory for Australian citizens aged 18 years and over.**  
**If you don't vote, you may be prosecuted.**  
**If you vote more than once it is a criminal offence.**

**Federal election, Saturday 18 May 2019**

[www.aec.gov.au](http://www.aec.gov.au) | ☎ **13 23 26**



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Australian Electoral Commission

**ELECTION 2019**

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## EMPLOYEE HAPPINESS

# Spread positivity

HAPPY employees are the most vocal and persuasive advocates for their organisations, so it is in an employer's best interests to keep their workers smiling.

Robert Half report *The Secrets of the Happiest Companies and Employees* finds beyond the spread of optimism and goodwill, workplace happiness translates into a positive image for a company and bolsters corporate reputation and recruitment efforts.

Nicole Gorton, director of Robert Half Australia, says happiness offers "a win-win" for everyone.

She says there are simple ways to bring more positivity to the workplace.

### MAKE CONNECTIONS

"A research paper published in the *Journal of Experimental Psychology* noted that connecting with others increases personal happiness," Gorton says.

"Go beyond the normal circle and offer a hearty 'good morning' to the front desk staff, or the executive sharing a lift ride."

### PRaise GOOD EFFORTS

"Positive feedback puts a spring in anyone's step but in a time-poor day, praise may be scrimped on," Gorton says. "Taking a few minutes to offer glowing feedback doesn't just boost happiness, it can also have a positive impact on productivity."

### KIND SURPRISES

"According to the Harvard Business School, a person extending a hand of kindness feels happier, while the recipient feels an uptick in joy too," Gorton says.

"Pick up a surprise coffee for a colleague, help a co-worker complete a project on time, or lend a hand to fix a paper jam instead of turning a blind eye."

### GIVE BACK

Gorton says giving has a way of making people feel good and research shows donating to charity has a direct link to happiness.

She recommends turning social responsibility into an inclusive, fun work event.



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<p>Adult Services</p> <p><b>CLUB 10 BRAND NEW SHOP</b> 10 GUERNSEY ST, GUILDFORD</p> <p><b>OPENING SPECIALS</b> FULL SERVICE from \$70 and DOUBLE TROUBLE from \$120 We have hot and Sexy International Ladies at your service!</p> <p>club10.com.au <b>8747 4677 • OPEN 7 DAYS!</b></p>	<p>Cars For Sale</p> <p>1999 Holden Commodore Utility 5L V8</p> <p>Rego YCE760 09/19 Very good condition. \$6,500 ono</p> <p><b>Phone 0427 170 151</b></p> <p>Cars Wanted</p> <p><b>TOP CASH 7 DAYS</b> For all Cars, Vans, Utes, 4x4, Trucks, etc. <b>\$250 - \$30,000*</b> Call George 0404 714 714 <small>*Conditions apply</small></p> <p><b>WE WILL BEAT ANY PRICE</b> <b>1HR PICKUP</b> or 100% free removal <b>WE ARE LOCAL</b></p>	<p>General Notices</p> <p><b>Elizabeth Enterprise Precinct (EEP), Aboriginal Cultural Heritage Assessment Invitation to Register an Interest</b></p> <p>On behalf of Mirvac, Artefact Heritage is undertaking an Aboriginal cultural heritage assessment of Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP) in advance of the proposed bulk earthworks. The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgers Creek (Lot 5 DP 860456). The proponent's contact details are:</p> <p>Russell Hogan Development Manager Mircac Level 28, 200 George Street Sydney NSW 2000 (02) 9080 8154 <a href="mailto:Russell.Hogan@mircac.com">Russell.Hogan@mircac.com</a></p> <p>We are inviting registrations of interest in the project from Aboriginal groups and individuals who hold cultural knowledge relevant to determining the significance of Aboriginal objects and/or places in the locality. The purpose of the community consultation is to assist the proponent in the preparation of an application for an Aboriginal Heritage Impact Permit for the proposal. The consultation will also assist the Office of Environment and Heritage in their consideration and determination of the application.</p> <p>Consultation will also be used to inform on assessment required for further development within stage 1 of the EEP which may be subject to additional development consent processes. Additional consent processes may include State Significant Development under the Environmental Planning and Assessment Act 1979. Please note that the consultation guidelines require us to provide details of the Registered Aboriginal Parties to the Office of Environment and Heritage and Desribbin Local Aboriginal Land Council. In your response could you please advise if you would not like your details to be provided.</p> <p>Please register your interest in the project by 10 May 2019 by contacting:</p> <p>Anna Darby, Artefact Heritage Level 4, Building B, 35 Saunders Street, Pyrmont NSW 2009 02 9518 8411 <a href="mailto:anna.darby@artefact.net.au">anna.darby@artefact.net.au</a></p>
<p><b>AT WARWICK FARM</b> NEW OPEN Moving here from 173 Bigge St Liverpool. Best Chinese F/B massage. No Sex. Shop 4/12 Hume Hwy <b>9601 0710</b></p> <p><b>A Beautiful Massage</b> 9/46-48 Amy St Regents Park 10am-7pm DA271/03 Ph: 9738 9917</p> <p><b>ASIAN LADIES</b> Top Services. Great Rates Monday-Saturday 9am-7pm. <b>02 9787 2657</b></p> <p><b>At Fairfield Oil Massage</b> opposite train station Dale St Fairfield <b>0452 598 692</b></p> <p><b>At Liverpool massage</b> Best Oil Massage, Asian ladies 3/312 Macquarie St Liverpool Tel: 9602 7799</p>	<p>Motoring</p> <p>Caravans &amp; Trailers</p> <p><b>FORD MOTORHOME 1980 TRANSIT VAN</b></p> <p>6 Cylinder, Petrol, Gas, Shower, Toilet, Oven, Microwave, D/washer, Awning, Unreg, Needs TLC. <b>\$10,000 ONO.</b> All offers considered Serial no: 2515149 <b>0421 549 848</b></p> <p>Cars Wanted</p> <p><b>ABSOLUTELY UNWANTED</b> All cars, vans, utes &amp; trucks, removed free. Cash up to: <b>\$10,000</b> All Areas, same day removal Call Mike <b>8764 8071</b> <b>0414 423 200</b></p> <p>Trucks and Commercial</p> <p><b>FUSO CANTER 615 Pantech</b> ✓Tail lifter ✓68000km ✓6000 GVM ✓White colour ✓2017 Model <b>\$48,000</b> ☎ Tony 0414 504 945</p> <p>buy search sell .com.au</p> <p>Call 13 11 13</p>	<p>Find it at Buy Search Sell</p> <p>buy search sell .com.au</p>

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Invitation to register an interest

## Anna Darby

---

**From:** Anna Darby  
**Sent:** Wednesday, 1 May 2019 12:26 PM  
**To:** boorooberongal@outlook.com  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

Darug Boorooberongal Elders Aboriginal Corporation  
73 Judith Anderson Drive  
Doonside NSW 2767

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Gordon Workman,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site. Further development within stage 1 may be subject to additional approval pathways.

The Stage 1 site location is shown within Figure 1 below.

It is likely that Aboriginal objects will be impacted by the proposal and at least one application for an Aboriginal Heritage Impact Permit (AHIP) under section 90 of the National Parks and Wildlife Act 1974 will be required. Mirvac has engaged Artefact Heritage to complete an Aboriginal Cultural Heritage assessment for the project, including consultation in accordance with the Aboriginal cultural heritage consultation requirements for proponents 2010 (the consultation requirements) (DECCW 2010).

The contact details for the proponent are:

Russell Hogan  
Development Manager  
Mirvac  
Level 28, 200 George Street Sydney NSW 2000  
(02) 9080 8154  
Russell.Hogan@mirvac.com

The assessment of Aboriginal heritage will be prepared in accordance with the principles of the NPW Act 1974, the OEH 'Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales' (the OEH code of practice), the OEH 'Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW', and the consultation requirements.

Mirvac wishes to consult with any Aboriginal persons or organisations that hold cultural knowledge relevant to determining the significance of Aboriginal objects and places in Badgerys Creek.

I would like to invite you to register an interest in the project, if you would like to be involved in the community consultation process. Please send your registration by **14 May 2019** to:

Anna Darby  
Artefact Heritage  
Building B, Level 4, 35 Saunders Street  
Pyrmont NSW 2009  
or email [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

Please note that the consultation guidelines require us to provide details of the Registered Aboriginal Parties to the Office of Environment and Heritage and Deerubbin Local Aboriginal Land Council. Please let me know if you would not like your details to be provided.

As part of your registration of interest, I would appreciate it if you could address the following points:

- Name and contact details of the organisation registering.
- An outline of the connection of the organisation to the Badgerys Creek Region.
- If you would like to be involved in any fieldwork, details of rates and insurances (Public Liability and Workers Compensation or equivalent).

If you require any additional information, please do not hesitate to contact me.

Yours sincerely,



Anna Darby  
Heritage consultant  
Artefact Heritage

E: [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

P: 02 9518 8411

W: [www.artefact.net.au](http://www.artefact.net.au)

A: Level 4 Building B 35 Saunders Street Pyrmont NSW 2009

Figure 1: Map of study area



## Anna Darby

---

**From:** Anna Darby  
**Sent:** Wednesday, 1 May 2019 12:26 PM  
**To:** 'yulayculturalservices@gmail.com'  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

Yulay Cultural Services  
15 Rowley Place  
Airds NSW 2560

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Arika Jalomaki,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site. Further development within stage 1 may be subject to additional approval pathways.

The Stage 1 site location is shown within Figure 1 below.

It is likely that Aboriginal objects will be impacted by the proposal and at least one application for an Aboriginal Heritage Impact Permit (AHIP) under section 90 of the National Parks and Wildlife Act 1974 will be required. Mirvac has engaged Artefact Heritage to complete an Aboriginal Cultural Heritage assessment for the project, including consultation in accordance with the Aboriginal cultural heritage consultation requirements for proponents 2010 (the consultation requirements) (DECCW 2010).

The contact details for the proponent are:

Russell Hogan  
Development Manager  
Mirvac  
Level 28, 200 George Street Sydney NSW 2000  
(02) 9080 8154  
Russell.Hogan@mirvac.com

The assessment of Aboriginal heritage will be prepared in accordance with the principles of the NPW Act 1974, the OEH 'Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales' (the OEH code of practice), the OEH 'Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW', and the consultation requirements.

Mirvac wishes to consult with any Aboriginal persons or organisations that hold cultural knowledge relevant to determining the significance of Aboriginal objects and places in Badgerys Creek.

I would like to invite you to register an interest in the project, if you would like to be involved in the community consultation process. Please send your registration by **14 May 2019** to:



Anna Darby  
Artefact Heritage  
Building B, Level 4, 35 Saunders Street  
Pymont NSW 2009  
or email [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

Please note that the consultation guidelines require us to provide details of the Registered Aboriginal Parties to the Office of Environment and Heritage and Deerubbin Local Aboriginal Land Council. Please let me know if you would not like your details to be provided.

As part of your registration of interest, I would appreciate it if you could address the following points:

- Name and contact details of the organisation registering.
- An outline of the connection of the organisation to the Badgerys Creek Region.
- If you would like to be involved in any fieldwork, details of rates and insurances (Public Liability and Workers Compensation or equivalent).

If you require any additional information, please do not hesitate to contact me.

Yours sincerely,



Anna Darby  
Heritage consultant  
Artefact Heritage

E: [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

P: 02 9518 8411

W: [www.artefact.net.au](http://www.artefact.net.au)

A: Level 4 Building B 35 Saunders Street Pymont NSW 2009

Figure 1: Map of study area



## Anna Darby

---

**From:** Anna Darby  
**Sent:** Wednesday, 1 May 2019 12:26 PM  
**To:** 'thoorganura@gmail.com'  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

Thoorga Nura  
50b Hilltop Crescent  
Surf Beach NSW 2536

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear John Carriage,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site. Further development within stage 1 may be subject to additional approval pathways.

The Stage 1 site location is shown within Figure 1 below.

It is likely that Aboriginal objects will be impacted by the proposal and at least one application for an Aboriginal Heritage Impact Permit (AHIP) under section 90 of the National Parks and Wildlife Act 1974 will be required. Mirvac has engaged Artefact Heritage to complete an Aboriginal Cultural Heritage assessment for the project, including consultation in accordance with the Aboriginal cultural heritage consultation requirements for proponents 2010 (the consultation requirements) (DECCW 2010).

The contact details for the proponent are:

Russell Hogan  
Development Manager  
Mirvac  
Level 28, 200 George Street Sydney NSW 2000  
(02) 9080 8154  
Russell.Hogan@mirvac.com

The assessment of Aboriginal heritage will be prepared in accordance with the principles of the NPW Act 1974, the OEH 'Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales' (the OEH code of practice), the OEH 'Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW', and the consultation requirements.

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Building B, Level 4, 35 Saunders Street  
Pyrmont NSW 2009  
or email [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

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If you require any additional information, please do not hesitate to contact me.

Yours sincerely,



Anna Darby  
Heritage consultant  
Artefact Heritage

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P: 02 9518 8411

W: [www.artefact.net.au](http://www.artefact.net.au)

A: Level 4 Building B 35 Saunders Street Pyrmont NSW 2009



Figure 1: Map of study area





## Anna Darby

---

**From:** Anna Darby  
**Sent:** Wednesday, 1 May 2019 12:26 PM  
**To:** 'barkingowlcorp@gmail.com'  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

Barking Owl Aboriginal Corporation  
2-65/69 Wehlow Street  
Mount Druitt NSW 2770

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Jody Kulakowski,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site. Further development within stage 1 may be subject to additional approval pathways.

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Figure 1: Map of study area



## Anna Darby

---

**From:** Anna Darby  
**Sent:** Wednesday, 1 May 2019 12:26 PM  
**To:** 'waarlan12@outlook.com'  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

Wailwan Aboriginal Group

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Phil Boney,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site. Further development within stage 1 may be subject to additional approval pathways.

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Figure 1: Map of study area



## Anna Darby

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**From:** Anna Darby  
**Sent:** Wednesday, 1 May 2019 12:26 PM  
**To:** 'nerrigundahchts@gmail.com'  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

Nerrigundah

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Newton Carriage,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site. Further development within stage 1 may be subject to additional approval pathways.

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Figure 1: Map of study area





## Anna Darby

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**From:** Anna Darby  
**Sent:** Wednesday, 1 May 2019 12:26 PM  
**To:** 'ginninderra.corp@gmail.com'  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

Ginninderra Aboriginal Corporation  
PO Box 3143  
Grose Vale NSW 2754

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Steven Johnson and Krystle Carroll,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site. Further development within stage 1 may be subject to additional approval pathways.

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Figure 1: Map of study area



## Anna Darby

---

**From:** Anna Darby  
**Sent:** Wednesday, 1 May 2019 12:26 PM  
**To:** 'didgengunawalclan@yahoo.com.au'  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

Didge Ngunawal Clan  
7 Siskin St  
Quakers Hill NSW 2763

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Paul Boyd and Lillie Carrol,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site. Further development within stage 1 may be subject to additional approval pathways.

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Figure 1: Map of study area





## Anna Darby

---

**From:** Anna Darby  
**Sent:** Wednesday, 1 May 2019 12:26 PM  
**To:** 'koori@ozemail.com.au'  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

Butacarbin Aboriginal Corporation  
PO Box E18  
Emerton NSW 2770

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Jennifer Beale,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site. Further development within stage 1 may be subject to additional approval pathways.

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Figure 1: Map of study area



## Anna Darby

---

**From:** Anna Darby  
**Sent:** Wednesday, 1 May 2019 12:26 PM  
**To:** 'darrenjohnduncan@gmail.com'  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

DJMD Consultancy

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Darren Duncan,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site. Further development within stage 1 may be subject to additional approval pathways.

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Figure 1: Map of study area



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---

**From:** Anna Darby  
**Sent:** Wednesday, 1 May 2019 12:26 PM  
**To:** 'murramarangchts@gmail.com'  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

Murramarang

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Roxanne Smith,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site. Further development within stage 1 may be subject to additional approval pathways.

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Figure 1: Map of study area





## Anna Darby

---

**From:** Anna Darby  
**Sent:** Wednesday, 1 May 2019 12:26 PM  
**To:** 'cullendullachts@gmail.com'  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

Callendulla

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Corey Smith,

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W: [www.artefact.net.au](http://www.artefact.net.au)

A: Level 4 Building B 35 Saunders Street Pyrmont NSW 2009

Figure 1: Map of study area



## Anna Darby

---

**From:** Anna Darby  
**Sent:** Wednesday, 1 May 2019 12:26 PM  
**To:** 'biamangachts@gmail.com'  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

Biamanga

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Seli Storer,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site. Further development within stage 1 may be subject to additional approval pathways.

The Stage 1 site location is shown within Figure 1 below.

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The contact details for the proponent are:

Russell Hogan  
Development Manager  
Mirvac  
Level 28, 200 George Street Sydney NSW 2000  
(02) 9080 8154  
Russell.Hogan@mirvac.com

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If you require any additional information, please do not hesitate to contact me.

Yours sincerely,



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Heritage consultant  
Artefact Heritage

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Figure 1: Map of study area





## Anna Darby

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**From:** Anna Darby  
**Sent:** Wednesday, 1 May 2019 12:26 PM  
**To:** 'gulagachts@gmail.com'  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

Gulaga

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Wendy Smith,

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Figure 1: Map of study area



## Anna Darby

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**From:** Anna Darby  
**Sent:** Wednesday, 1 May 2019 12:26 PM  
**To:** 'wingikara@mirramajah.com'  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

Wingikara Cultural Heritage Technical services

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Wandai Kirkbright,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site. Further development within stage 1 may be subject to additional approval pathways.

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Figure 1: Map of study area



## Anna Darby

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**From:** Anna Darby  
**Sent:** Wednesday, 1 May 2019 12:25 PM  
**To:** 'murrumbul@mirramajah.com'  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

Murrumbul Cultural Heritage Technical Services

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Levi McKenzie-Kirkbright,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site. Further development within stage 1 may be subject to additional approval pathways.

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Figure 1: Map of study area





## Anna Darby

---

**From:** Anna Darby  
**Sent:** Wednesday, 1 May 2019 12:25 PM  
**To:** munyunga@mirramajah.com  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

Munyunga Cultural Heritage Technical Services

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Suzannah McKenzie,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site. Further development within stage 1 may be subject to additional approval pathways.

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Figure 1: Map of study area



## Anna Darby

---

**From:** Anna Darby  
**Sent:** Wednesday, 1 May 2019 12:25 PM  
**To:** gunyuu@mirramajah.com  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

Gunyuu Cultural Heritage Technical Services

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Darlene Hoskins-McKenzie,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site. Further development within stage 1 may be subject to additional approval pathways.

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Figure 1: Map of study area





## Anna Darby

---

**From:** Anna Darby  
**Sent:** Wednesday, 1 May 2019 12:25 PM  
**To:** bilinga@mirramajah.com  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

Bilinga Cultural Heritage Technical Services

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Robert Brown,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site. Further development within stage 1 may be subject to additional approval pathways.

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Figure 1: Map of study area



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**From:** Anna Darby  
**Sent:** Wednesday, 1 May 2019 12:25 PM  
**To:** dharugchts@gmail.com  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

Dharug

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Andrew Bond,

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Figure 1: Map of study area



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**From:** Anna Darby  
**Sent:** Wednesday, 1 May 2019 12:25 PM  
**To:** thauairachts@gmail.com  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

Thauaira

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Shane Carriage,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site. Further development within stage 1 may be subject to additional approval pathways.

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Figure 1: Map of study area





## Anna Darby

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**Sent:** Wednesday, 1 May 2019 12:25 PM  
**To:** walgaluchts@gmail.com  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

Walgalu

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Ronald Stewart,

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Anna Darby



Artefact Heritage  
Building B, Level 4, 35 Saunders Street  
Pyrmont NSW 2009  
or email [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

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Yours sincerely,



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Artefact Heritage

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P: 02 9518 8411

W: [www.artefact.net.au](http://www.artefact.net.au)

A: Level 4 Building B 35 Saunders Street Pyrmont NSW 2009

Figure 1: Map of study area



## Anna Darby

---

**From:** Anna Darby  
**Sent:** Wednesday, 1 May 2019 12:25 PM  
**To:** minnamunnung@gmail.com  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

Minnamunnung  
1 Waratah Avenue  
Albion Park Rail NSW 2527

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Aaron Broad,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site. Further development within stage 1 may be subject to additional approval pathways.

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The contact details for the proponent are:

Russell Hogan  
Development Manager  
Mirvac  
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(02) 9080 8154  
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Figure 1: Map of study area





## Anna Darby

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**From:** Anna Darby  
**Sent:** Wednesday, 1 May 2019 12:25 PM  
**To:** wingikarachts@gmail.com  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

Wingikara

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Hayley Bell,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site. Further development within stage 1 may be subject to additional approval pathways.

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Figure 1: Map of study area



## Anna Darby

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**From:** Anna Darby  
**Sent:** Wednesday, 1 May 2019 12:25 PM  
**To:** munyungachts@gmail.com  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

Munyunga

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Kaya Dawn Bell,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site. Further development within stage 1 may be subject to additional approval pathways.

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Figure 1: Map of study area



## Anna Darby

---

**From:** Anna Darby  
**Sent:** Wednesday, 1 May 2019 12:25 PM  
**To:** bilingachts@gmail.com  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

Bilinga

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Simalene Carriage,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site. Further development within stage 1 may be subject to additional approval pathways.

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Figure 1: Map of study area





## Anna Darby

---

**From:** Anna Darby  
**Sent:** Wednesday, 1 May 2019 12:25 PM  
**To:** pemulwuyd@gmail.com  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

Pemulway CHTS  
14 Top Place  
Mt Annan 2567

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Pemulway Johnson,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site. Further development within stage 1 may be subject to additional approval pathways.

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Figure 1: Map of study area



## Anna Darby

---

**From:** Anna Darby  
**Sent:** Wednesday, 1 May 2019 12:25 PM  
**To:** jerringong@gmail.com  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

Jerringong

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Joanne Anne Stewart,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site. Further development within stage 1 may be subject to additional approval pathways.

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Figure 1: Map of study area





## Anna Darby

---

**From:** Anna Darby  
**Sent:** Wednesday, 1 May 2019 12:25 PM  
**To:** murrumbul@gmail.com  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

Murrumbul

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Mark Henry,

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Figure 1: Map of study area



## Anna Darby

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**From:** Anna Darby  
**Sent:** Wednesday, 1 May 2019 12:25 PM  
**To:** nundagurri@gmail.com  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

Nundagurri

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Newton Carriage,

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Figure 1: Map of study area



## Anna Darby

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**From:** Anna Darby  
**Sent:** Wednesday, 1 May 2019 12:25 PM  
**To:** yerramurra@gmail.com  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

Yerramurra

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Robert Parson,

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Figure 1: Map of study area





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**From:** Anna Darby  
**Sent:** Wednesday, 1 May 2019 12:25 PM  
**To:** goobahchts@gmail.com  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

Goobah Developments  
66 Grantham Road  
Batehaven, NSW 2536

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Basil Smith,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site. Further development within stage 1 may be subject to additional approval pathways.

The Stage 1 site location is shown within Figure 1 below.

It is likely that Aboriginal objects will be impacted by the proposal and at least one application for an Aboriginal Heritage Impact Permit (AHIP) under section 90 of the National Parks and Wildlife Act 1974 will be required. Mirvac has engaged Artefact Heritage to complete an Aboriginal Cultural Heritage assessment for the project, including consultation in accordance with the Aboriginal cultural heritage consultation requirements for proponents 2010 (the consultation requirements) (DECCW 2010).

The contact details for the proponent are:

Russell Hogan  
Development Manager  
Mirvac  
Level 28, 200 George Street Sydney NSW 2000  
(02) 9080 8154  
Russell.Hogan@mirvac.com

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I would like to invite you to register an interest in the project, if you would like to be involved in the community consultation process. Please send your registration by **14 May 2019** to:



Anna Darby  
Artefact Heritage  
Building B, Level 4, 35 Saunders Street  
Pyrmont NSW 2009  
or email [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

Please note that the consultation guidelines require us to provide details of the Registered Aboriginal Parties to the Office of Environment and Heritage and Deerubbin Local Aboriginal Land Council. Please let me know if you would not like your details to be provided.

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- An outline of the connection of the organisation to the Badgerys Creek Region.
- If you would like to be involved in any fieldwork, details of rates and insurances (Public Liability and Workers Compensation or equivalent).

If you require any additional information, please do not hesitate to contact me.

Yours sincerely,



Anna Darby  
Heritage consultant  
Artefact Heritage

E: [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

P: 02 9518 8411

W: [www.artefact.net.au](http://www.artefact.net.au)

A: Level 4 Building B 35 Saunders Street Pyrmont NSW 2009

Figure 1: Map of study area



## Anna Darby

---

**From:** Anna Darby  
**Sent:** Wednesday, 1 May 2019 12:25 PM  
**To:** walbunja@gmail.com  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

Walbunja

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Hika Te Kowhai,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site. Further development within stage 1 may be subject to additional approval pathways.

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Figure 1: Map of study area





## Anna Darby

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**From:** Anna Darby  
**Sent:** Wednesday, 1 May 2019 12:25 PM  
**To:** gunyuuchts@gmail.com  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

Gunyuuu

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Kylie Ann Bell,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site. Further development within stage 1 may be subject to additional approval pathways.

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Figure 1: Map of study area



## Anna Darby

---

**From:** Anna Darby  
**Sent:** Wednesday, 1 May 2019 12:25 PM  
**To:** dhinawan.fields@gmail.com  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

Dhinawan-Dhigaraa Culture and Heritage  
19 Moomi Street  
Lalor Park NSW 2147

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Ricky Fields,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site. Further development within stage 1 may be subject to additional approval pathways.

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Figure 1: Map of study area



## Anna Darby

---

**From:** Anna Darby  
**Sent:** Wednesday, 1 May 2019 12:25 PM  
**To:** 'ajw1901@bigpond.com'  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

Rane Consulting  
1 Pyrenees Way  
Beaumont Hills NSW 2155

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Tony Williams,

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Figure 1: Map of study area





## Anna Darby

---

**From:** Anna Darby  
**Sent:** Wednesday, 1 May 2019 12:25 PM  
**To:** 'Widescope.group@live.com'  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

Widescope Indigenous Group  
73 Russell Street  
Emu Plains NSW 2750

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Steven Hickey,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site. Further development within stage 1 may be subject to additional approval pathways.

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Figure 1: Map of study area



## Anna Darby

---

**From:** Anna Darby  
**Sent:** Wednesday, 1 May 2019 12:25 PM  
**To:** 'amandahickey@live.com.au'  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

Amanda Hickey Cultural Services  
57 Gough St  
Emu Plains NSW 2750

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Amanda Hickey,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site. Further development within stage 1 may be subject to additional approval pathways.

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Figure 1: Map of study area





## Anna Darby

---

**From:** Anna Darby  
**Sent:** Wednesday, 1 May 2019 12:25 PM  
**To:** scott@tocomwall.com.au  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

Tocomwall  
PO Box 76  
Caringbah NSW 1495

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Scott Franks,

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Figure 1: Map of study area



## Anna Darby

---

**From:** Anna Darby  
**Sent:** Wednesday, 1 May 2019 12:25 PM  
**To:** vicki.slater@hotmail.com  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

Kawul Cultural Services  
PO Box 414  
Emu Plains NSW 2750

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Vicky Slater,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site. Further development within stage 1 may be subject to additional approval pathways.

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Figure 1: Map of study area



## Anna Darby

---

**From:** Anna Darby  
**Sent:** Wednesday, 1 May 2019 12:25 PM  
**To:** warragil\_c.s@hotmail.com  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

Warragil Cultural Services  
22 Tiffany Close  
Rooty Hill NSW 2766

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Aaron Slater,

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or email [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

Please note that the consultation guidelines require us to provide details of the Registered Aboriginal Parties to the Office of Environment and Heritage and Deerubbin Local Aboriginal Land Council. Please let me know if you would not like your details to be provided.

As part of your registration of interest, I would appreciate it if you could address the following points:

- Name and contact details of the organisation registering.
- An outline of the connection of the organisation to the Badgerys Creek Region.
- If you would like to be involved in any fieldwork, details of rates and insurances (Public Liability and Workers Compensation or equivalent).

If you require any additional information, please do not hesitate to contact me.

Yours sincerely,



Anna Darby  
Heritage consultant  
Artefact Heritage

E: [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

P: 02 9518 8411

W: [www.artefact.net.au](http://www.artefact.net.au)

A: Level 4 Building B 35 Saunders Street Pyrmont NSW 2009

Figure 1: Map of study area





## Anna Darby

---

**From:** Anna Darby  
**Sent:** Wednesday, 1 May 2019 12:25 PM  
**To:** wurrumay@hotmail.com  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

Wurrumay Consultancy  
89 Pyramid Street  
Emu Plains NSW 2750

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Kerrie Slater,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site. Further development within stage 1 may be subject to additional approval pathways.

The Stage 1 site location is shown within Figure 1 below.

It is likely that Aboriginal objects will be impacted by the proposal and at least one application for an Aboriginal Heritage Impact Permit (AHIP) under section 90 of the National Parks and Wildlife Act 1974 will be required. Mirvac has engaged Artefact Heritage to complete an Aboriginal Cultural Heritage assessment for the project, including consultation in accordance with the Aboriginal cultural heritage consultation requirements for proponents 2010 (the consultation requirements) (DECCW 2010).

The contact details for the proponent are:

Russell Hogan  
Development Manager  
Mirvac  
Level 28, 200 George Street Sydney NSW 2000  
(02) 9080 8154  
Russell.Hogan@mirvac.com

The assessment of Aboriginal heritage will be prepared in accordance with the principles of the NPW Act 1974, the OEH 'Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales' (the OEH code of practice), the OEH 'Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW', and the consultation requirements.

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I would like to invite you to register an interest in the project, if you would like to be involved in the community consultation process. Please send your registration by **14 May 2019** to:



Anna Darby  
Artefact Heritage  
Building B, Level 4, 35 Saunders Street  
Pyrmont NSW 2009  
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If you require any additional information, please do not hesitate to contact me.

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Heritage consultant  
Artefact Heritage

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A: Level 4 Building B 35 Saunders Street Pyrmont NSW 2009

Figure 1: Map of study area



## Anna Darby

---

**From:** Anna Darby  
**Sent:** Wednesday, 1 May 2019 12:25 PM  
**To:** philipkhan.acn@live.com.au  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

Kamilaroi-Yankuntjatjara Working Group  
78 Forbes Street  
Emu Plains NSW 2780

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Phillip Khan,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site. Further development within stage 1 may be subject to additional approval pathways.

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Pymont NSW 2009  
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Artefact Heritage

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P: 02 9518 8411

W: [www.artefact.net.au](http://www.artefact.net.au)

A: Level 4 Building B 35 Saunders Street Pymont NSW 2009



Figure 1: Map of study area





## Anna Darby

---

**From:** Anna Darby  
**Sent:** Wednesday, 1 May 2019 12:25 PM  
**To:** 'murrabidgeemullangari@yahoo.com.au'  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

Murra Bidgee Mullangari Aboriginal Corporation  
PO Box 246  
Seven Hills NSW 2147

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Darleen Johnson,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site. Further development within stage 1 may be subject to additional approval pathways.

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Mirvac  
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(02) 9080 8154  
Russell.Hogan@mirvac.com

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Artefact Heritage  
Building B, Level 4, 35 Saunders Street  
Pyrmont NSW 2009  
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Heritage consultant  
Artefact Heritage

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P: 02 9518 8411

W: [www.artefact.net.au](http://www.artefact.net.au)

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Figure 1: Map of study area



## Anna Darby

---

**From:** Anna Darby  
**Sent:** Wednesday, 1 May 2019 12:25 PM  
**To:** 'gunjeewong@yahoo.com.au'  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

Gunjeewong Cultural Heritage Aboriginal Corporation  
1 Bellvue Place  
Portland, NSW 2847

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Cherie Carroll Turrise,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site. Further development within stage 1 may be subject to additional approval pathways.

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(02) 9080 8154  
Russell.Hogan@mirvac.com

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W: [www.artefact.net.au](http://www.artefact.net.au)

A: Level 4 Building B 35 Saunders Street Pyrmont NSW 2009



Figure 1: Map of study area



## Anna Darby

---

**From:** Anna Darby  
**Sent:** Wednesday, 1 May 2019 12:25 PM  
**To:** 'cazadirect@live.com'  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

A1 Indigenous Services  
73 Russell Street  
Emu Plains NSW 2750

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Carolyn Hickey,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site. Further development within stage 1 may be subject to additional approval pathways.

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Development Manager  
Mirvac  
Level 28, 200 George Street Sydney NSW 2000  
(02) 9080 8154  
Russell.Hogan@mirvac.com

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Building B, Level 4, 35 Saunders Street  
Pyrmont NSW 2009  
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Heritage consultant  
Artefact Heritage

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A: Level 4 Building B 35 Saunders Street Pyrmont NSW 2009

Figure 1: Map of study area





## Anna Darby

---

**From:** Anna Darby  
**Sent:** Wednesday, 1 May 2019 12:25 PM  
**To:** desmond4552@hotmail.com  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

Des Dyer  
18a Perigee Close  
Doonside NSW 2767

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Des Dyer,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site. Further development within stage 1 may be subject to additional approval pathways.

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Development Manager  
Mirvac  
Level 28, 200 George Street Sydney NSW 2000  
(02) 9080 8154  
Russell.Hogan@mirvac.com

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A: Level 4 Building B 35 Saunders Street Pyrmont NSW 2009

Figure 1: Map of study area



## Anna Darby

---

**From:** Anna Darby  
**Sent:** Wednesday, 1 May 2019 12:25 PM  
**To:** daruglandobservations@gmail.com  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

Darug Land Observations  
PO Box 173  
Ulladulla NSW 2539

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Jamie Workman,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site. Further development within stage 1 may be subject to additional approval pathways.

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A: Level 4 Building B 35 Saunders Street Pyrmont NSW 2009



Figure 1: Map of study area





## Anna Darby

---

**From:** Anna Darby  
**Sent:** Wednesday, 1 May 2019 12:25 PM  
**To:** darug\_tribal@live.com.au  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

Darug Tribal Aboriginal Corporation  
PO Box 441  
Blacktown NSW 2148

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Sir or Madam,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site. Further development within stage 1 may be subject to additional approval pathways.

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W: [www.artefact.net.au](http://www.artefact.net.au)

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Figure 1: Map of study area



## Anna Darby

---

**From:** Anna Darby  
**Sent:** Wednesday, 1 May 2019 12:25 PM  
**To:** justinecoplin@optusnet.com.au  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

Darug Custodian Aboriginal Corporation  
PO Box 81  
Windsor NSW 2756

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Justine Coplin,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site. Further development within stage 1 may be subject to additional approval pathways.

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Figure 1: Map of study area



## Anna Darby

---

**From:** Anna Darby  
**Sent:** Wednesday, 1 May 2019 12:25 PM  
**To:** staff@deerubbin.org.au  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

Deerubbin Local Aboriginal Land Council  
PO Box 40  
Penrith BC 2751

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Kevin Cavanagh,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site. Further development within stage 1 may be subject to additional approval pathways.

The Stage 1 site location is shown within Figure 1 below.

It is likely that Aboriginal objects will be impacted by the proposal and at least one application for an Aboriginal Heritage Impact Permit (AHIP) under section 90 of the National Parks and Wildlife Act 1974 will be required. Mirvac has engaged Artefact Heritage to complete an Aboriginal Cultural Heritage assessment for the project, including consultation in accordance with the Aboriginal cultural heritage consultation requirements for proponents 2010 (the consultation requirements) (DECCW 2010).

The contact details for the proponent are:

Russell Hogan  
Development Manager  
Mirvac  
Level 28, 200 George Street Sydney NSW 2000  
(02) 9080 8154  
Russell.Hogan@mirvac.com

The assessment of Aboriginal heritage will be prepared in accordance with the principles of the NPW Act 1974, the OEH 'Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales' (the OEH code of practice), the OEH 'Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW', and the consultation requirements.

Mirvac wishes to consult with any Aboriginal persons or organisations that hold cultural knowledge relevant to determining the significance of Aboriginal objects and places in Badgerys Creek.

I would like to invite you to register an interest in the project, if you would like to be involved in the community consultation process. Please send your registration by **14 May 2019** to:

Anna Darby  
Artefact Heritage  
Building B, Level 4, 35 Saunders Street  
Pyrmont NSW 2009  
or email [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

Please note that the consultation guidelines require us to provide details of the Registered Aboriginal Parties to the Office of Environment and Heritage and Deerubbin Local Aboriginal Land Council. Please let me know if you would not like your details to be provided.

As part of your registration of interest, I would appreciate it if you could address the following points:

- Name and contact details of the organisation registering.
- An outline of the connection of the organisation to the Badgerys Creek Region.
- If you would like to be involved in any fieldwork, details of rates and insurances (Public Liability and Workers Compensation or equivalent).

If you require any additional information, please do not hesitate to contact me.

Yours sincerely,



Anna Darby  
Heritage consultant  
Artefact Heritage

E: [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

P: 02 9518 8411

W: [www.artefact.net.au](http://www.artefact.net.au)

A: Level 4 Building B 35 Saunders Street Pyrmont NSW 2009

Figure 1: Map of study area





## Anna Darby

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**From:** Microsoft Outlook  
**To:** wingikara@mirramajah.com  
**Sent:** Wednesday, 1 May 2019 12:26 PM  
**Subject:** Undeliverable: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

### Delivery has failed to these recipients or groups:

[wingikara@mirramajah.com](mailto:wingikara@mirramajah.com) ([wingikara@mirramajah.com](mailto:wingikara@mirramajah.com))

Your message couldn't be delivered. The Domain Name System (DNS) reported that the recipient's domain does not exist.

Contact the recipient by some other means (by phone, for example) and ask them to tell their email admin that it appears that their domain isn't properly registered at their domain registrar. Give them the error details shown below. It's likely that the recipient's email admin is the only one who can fix this problem.

For more information and tips to fix this issue see this article:  
<https://go.microsoft.com/fwlink/?LinkId=389361>.

### Diagnostic information for administrators:

Generating server: SYCPR01MB3647.ausprd01.prod.outlook.com

wingikara@mirramajah.com

Remote Server returned '550 5.4.310 DNS domain mirramajah.com does not exist [Message=InfoDomainNonexistent] [LastAttemptedServerName=mirramajah.com] [SY3AUS01FT011.eop-AUS01.prod.protection.outlook.com]'

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0=

Received: from SYCPR01MB5391.ausprd01.prod.outlook.com (10.255.208.205) by  
SYCPR01MB3647.ausprd01.prod.outlook.com (20.177.141.147) with Microsoft SMTP  
Server (version=TLS1\_2, cipher=TLS\_ECDHE\_RSA\_WITH\_AES\_256\_GCM\_SHA384) id  
15.20.1835.13; Wed, 1 May 2019 02:26:00 +0000

Received: from SYCPR01MB5391.ausprd01.prod.outlook.com  
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([fe80::cd67:f000:5817:93ea%5]) with mapi id 15.20.1835.018; Wed, 1 May 2019  
02:26:00 +0000

From: Anna Darby <Anna.darby@artefact.net.au>



To: "wingikara@mirramajah.com" <wingikara@mirramajah.com>  
 Subject: Identification of Interested Aboriginal Parties - Elizabeth  
 Enterprise Precinct (EEP) Aboriginal Heritage Assessment  
 Thread-Topic: Identification of Interested Aboriginal Parties - Elizabeth  
 Enterprise Precinct (EEP) Aboriginal Heritage Assessment  
 Thread-Index: AdT/xRWddW2TnhRQQA2t1WcM9OMu7w==  
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 authentication-results: spf=none (sender IP is )  
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 X-MS-Exchange-Transport-CrossTenantHeadersStamped: SYCP01MB3647

## Anna Darby

---

**From:** Microsoft Outlook  
**To:** murrumbul@mirramajah.com  
**Sent:** Wednesday, 1 May 2019 12:26 PM  
**Subject:** Undeliverable: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

### Delivery has failed to these recipients or groups:

[murrumbul@mirramajah.com](mailto:murrumbul@mirramajah.com) ([murrumbul@mirramajah.com](mailto:murrumbul@mirramajah.com))

Your message couldn't be delivered. The Domain Name System (DNS) reported that the recipient's domain does not exist.

Contact the recipient by some other means (by phone, for example) and ask them to tell their email admin that it appears that their domain isn't properly registered at their domain registrar. Give them the error details shown below. It's likely that the recipient's email admin is the only one who can fix this problem.

For more information and tips to fix this issue see this article:  
<https://go.microsoft.com/fwlink/?LinkId=389361>.

### Diagnostic information for administrators:

Generating server: SYCPR01MB3647.ausprd01.prod.outlook.com

murrumbul@mirramajah.com

Remote Server returned '550 5.4.310 DNS domain mirramajah.com does not exist [Message=InfoDomainNonexistent] [LastAttemptedServerName=mirramajah.com] [SY3AUS01FT007.eop-AUS01.prod.protection.outlook.com]'

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Received: from SYCPR01MB5391.ausprd01.prod.outlook.com (10.255.208.205) by  
SYCPR01MB3647.ausprd01.prod.outlook.com (20.177.141.147) with Microsoft SMTP  
Server (version=TLS1\_2, cipher=TLS\_ECDHE\_RSA\_WITH\_AES\_256\_GCM\_SHA384) id  
15.20.1835.13; Wed, 1 May 2019 02:25:59 +0000

Received: from SYCPR01MB5391.ausprd01.prod.outlook.com  
([fe80::cd67:f000:5817:93ea]) by SYCPR01MB5391.ausprd01.prod.outlook.com  
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02:25:59 +0000

From: Anna Darby <Anna.darby@artefact.net.au>

To: "murumbul@mirramajah.com" <murumbul@mirramajah.com>  
 Subject: Identification of Interested Aboriginal Parties - Elizabeth  
 Enterprise Precinct (EEP) Aboriginal Heritage Assessment  
 Thread-Topic: Identification of Interested Aboriginal Parties - Elizabeth  
 Enterprise Precinct (EEP) Aboriginal Heritage Assessment  
 Thread-Index: AdT/xRVtu97TkEfZSECrzrYT6ng5wg==  
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 received-spf: None (protection.outlook.com: artefact.net.au does not designate permitted sender hosts)  
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## Anna Darby

---

**From:** Microsoft Outlook  
**To:** munyunga@mirramajah.com  
**Sent:** Wednesday, 1 May 2019 12:26 PM  
**Subject:** Undeliverable: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

### Delivery has failed to these recipients or groups:

[munyunga@mirramajah.com](mailto:munyunga@mirramajah.com) ([munyunga@mirramajah.com](mailto:munyunga@mirramajah.com))

Your message couldn't be delivered. The Domain Name System (DNS) reported that the recipient's domain does not exist.

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<https://go.microsoft.com/fwlink/?LinkId=389361>.

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munyunga@mirramajah.com

Remote Server returned '550 5.4.310 DNS domain mirramajah.com does not exist [Message=InfoDomainNonexistent] [LastAttemptedServerName=mirramajah.com] [SY3AUS01FT011.eop-AUS01.prod.protection.outlook.com]'

#### Original message headers:

DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;  
d=ArtefactHeritageServices.onmicrosoft.com; s=selector1-artefact-net-au;  
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0=

Received: from SYCPR01MB5391.ausprd01.prod.outlook.com (10.255.208.205) by  
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Server (version=TLS1\_2, cipher=TLS\_ECDHE\_RSA\_WITH\_AES\_256\_GCM\_SHA384) id  
15.20.1835.13; Wed, 1 May 2019 02:25:59 +0000

Received: from SYCPR01MB5391.ausprd01.prod.outlook.com  
([fe80::cd67:f000:5817:93ea]) by SYCPR01MB5391.ausprd01.prod.outlook.com  
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02:25:59 +0000

From: Anna Darby <Anna.darby@artefact.net.au>

To: "munyunga@mirramajah.com" <munyunga@mirramajah.com>  
Subject: Identification of Interested Aboriginal Parties - Elizabeth  
Enterprise Precinct (EEP) Aboriginal Heritage Assessment  
Thread-Topic: Identification of Interested Aboriginal Parties - Elizabeth  
Enterprise Precinct (EEP) Aboriginal Heritage Assessment  
Thread-Index: AdT/xRVAdtIE3JYeR76tVPuSA1SfYw==  
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X-MS-TNEF-Correlator:  
authentication-results: spf=none (sender IP is )  
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x-originating-ip: [49.255.4.170]  
x-ms-publictraffictype: Email  
x-ms-office365-filtering-correlation-id: 003ca57d-190e-4d49-f8ab-08d6cddc5943  
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received-spf: None (protection.outlook.com: artefact.net.au does not designate permitted sender hosts)  
x-ms-exchange-senderadcheck: 1  
x-microsoft-antispam-message-info:  
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Content-Type: multipart/related;  
boundary="\_005\_SYCP01MB539196A568D5AF1C31CAE173C13B0SYCP01MB5391ausp\_";  
type="multipart/alternative"  
MIME-Version: 1.0  
X-OriginatorOrg: artefact.net.au  
X-MS-Exchange-CrossTenant-Network-Message-Id: 003ca57d-190e-4d49-f8ab-08d6cddc5943  
X-MS-Exchange-CrossTenant-originalarrivalttime: 01 May 2019 02:25:28.8404  
(UTC)  
X-MS-Exchange-CrossTenant-fromentityheader: Hosted  
X-MS-Exchange-CrossTenant-id: 712c6a00-3f97-4cde-8256-4f1597674e7b  
X-MS-Exchange-CrossTenant-mailboxtype: HOSTED  
X-MS-Exchange-Transport-CrossTenantHeadersStamped: SYCP01MB3647



## Anna Darby

---

**From:** Microsoft Outlook  
**To:** gunyuu@mirramajah.com  
**Sent:** Wednesday, 1 May 2019 12:26 PM  
**Subject:** Undeliverable: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

### Delivery has failed to these recipients or groups:

[gunyuu@mirramajah.com](mailto:gunyuu@mirramajah.com) ([gunyuu@mirramajah.com](mailto:gunyuu@mirramajah.com))

Your message couldn't be delivered. The Domain Name System (DNS) reported that the recipient's domain does not exist.

Contact the recipient by some other means (by phone, for example) and ask them to tell their email admin that it appears that their domain isn't properly registered at their domain registrar. Give them the error details shown below. It's likely that the recipient's email admin is the only one who can fix this problem.

For more information and tips to fix this issue see this article:  
<https://go.microsoft.com/fwlink/?LinkId=389361>.

### Diagnostic information for administrators:

Generating server: SYCPR01MB3647.ausprd01.prod.outlook.com

gunyuu@mirramajah.com

Remote Server returned '550 5.4.310 DNS domain mirramajah.com does not exist [Message=InfoDomainNonexistent] [LastAttemptedServerName=mirramajah.com] [SY3AUS01FT007.eop-AUS01.prod.protection.outlook.com]'

#### Original message headers:

DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;  
d=ArtefactHeritageServices.onmicrosoft.com; s=selector1-artefact-net-au;  
h=From:Date:Subject:Message-ID:Content-Type:MIME-Version:X-MS-Exchange-SenderADCheck;  
bh=nEevtgOFJJDBIBmOgPDaEOUFv7luTjv22HgRDhY2spA=;

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U=

Received: from SYCPR01MB5391.ausprd01.prod.outlook.com (10.255.208.205) by  
SYCPR01MB3647.ausprd01.prod.outlook.com (20.177.141.147) with Microsoft SMTP  
Server (version=TLS1\_2, cipher=TLS\_ECDHE\_RSA\_WITH\_AES\_256\_GCM\_SHA384) id  
15.20.1835.13; Wed, 1 May 2019 02:25:58 +0000

Received: from SYCPR01MB5391.ausprd01.prod.outlook.com  
([fe80::cd67:f000:5817:93ea]) by SYCPR01MB5391.ausprd01.prod.outlook.com  
([fe80::cd67:f000:5817:93ea%5]) with mapi id 15.20.1835.018; Wed, 1 May 2019  
02:25:58 +0000

From: Anna Darby <Anna.darby@artefact.net.au>

To: "gunyuu@mirramajah.com" <gunyuu@mirramajah.com>  
 Subject: Identification of Interested Aboriginal Parties - Elizabeth  
 Enterprise Precinct (EEP) Aboriginal Heritage Assessment  
 Thread-Topic: Identification of Interested Aboriginal Parties - Elizabeth  
 Enterprise Precinct (EEP) Aboriginal Heritage Assessment  
 Thread-Index: AdT/xRUR66PE4XY7T9KkoGyD0+aGWw==  
 Date: Wed, 1 May 2019 02:25:28 +0000  
 Message-ID:  
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 X-MS-Has-Attach: yes  
 X-MS-TNEF-Correlator:  
 authentication-results: spf=none (sender IP is )  
 smtp.mailfrom=Anna.darby@artefact.net.au;  
 x-originating-ip: [49.255.4.170]  
 x-ms-publictraffictype: Email  
 x-ms-office365-filtering-correlation-id: 6c9db698-fc64-4a39-d20f-08d6cddc58be  
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 <SYCPR01MB3647E86EDE3F3DE3A16A44B5C13B0@SYCPR01MB3647.ausprd01.prod.outlook.com>  
 x-ms-oob-tlc-oobclassifiers: OLM:9508;  
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 received-spf: None (protection.outlook.com: artefact.net.au does not designate permitted sender hosts)  
 x-ms-exchange-senderadcheck: 1  
 x-microsoft-antispam-message-info:  
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 type="multipart/alternative"  
 MIME-Version: 1.0  
 X-OriginatorOrg: artefact.net.au  
 X-MS-Exchange-CrossTenant-Network-Message-Id: 6c9db698-fc64-4a39-d20f-08d6cddc58be  
 X-MS-Exchange-CrossTenant-originalarrivalttime: 01 May 2019 02:25:28.2230  
 (UTC)  
 X-MS-Exchange-CrossTenant-fromentityheader: Hosted  
 X-MS-Exchange-CrossTenant-id: 712c6a00-3f97-4cde-8256-4f1597674e7b  
 X-MS-Exchange-CrossTenant-mailboxtype: HOSTED  
 X-MS-Exchange-Transport-CrossTenantHeadersStamped: SYCPR01MB3647

## Anna Darby

---

**From:** Microsoft Outlook  
**To:** bilinga@mirramajah.com  
**Sent:** Wednesday, 1 May 2019 12:26 PM  
**Subject:** Undeliverable: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

### Delivery has failed to these recipients or groups:

[binga@mirramajah.com](mailto:binga@mirramajah.com) ([binga@mirramajah.com](mailto:binga@mirramajah.com))

Your message couldn't be delivered. The Domain Name System (DNS) reported that the recipient's domain does not exist.

Contact the recipient by some other means (by phone, for example) and ask them to tell their email admin that it appears that their domain isn't properly registered at their domain registrar. Give them the error details shown below. It's likely that the recipient's email admin is the only one who can fix this problem.

For more information and tips to fix this issue see this article:  
<https://go.microsoft.com/fwlink/?LinkId=389361>.

### Diagnostic information for administrators:

Generating server: SYCPR01MB3647.ausprd01.prod.outlook.com

binga@mirramajah.com

Remote Server returned '550 5.4.310 DNS domain mirramajah.com does not exist [Message=InfoDomainNonexistent] [LastAttemptedServerName=mirramajah.com] [SY3AUS01FT007.eop-AUS01.prod.protection.outlook.com]'

#### Original message headers:

DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;  
d=ArtefactHeritageServices.onmicrosoft.com; s=selector1-artefact-net-au;  
h=From:Date:Subject:Message-ID:Content-Type:MIME-Version:X-MS-Exchange-SenderADCheck;  
bh=7RFMdOdEh63/ndMx4t7430kEallixPLsxW3PUfSLdJI=;

b=Qsx9ORTFdqqfrZzgGo9ITqkOmATRC6yZs96oUIHQp9YXyN4impsT6KcsekXAXP/el2DDdQtEq84+Lj+Vhh/D  
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g=

Received: from SYCPR01MB5391.ausprd01.prod.outlook.com (10.255.208.205) by  
SYCPR01MB3647.ausprd01.prod.outlook.com (20.177.141.147) with Microsoft SMTP  
Server (version=TLS1\_2, cipher=TLS\_ECDHE\_RSA\_WITH\_AES\_256\_GCM\_SHA384) id  
15.20.1835.13; Wed, 1 May 2019 02:25:57 +0000

Received: from SYCPR01MB5391.ausprd01.prod.outlook.com  
([fe80::cd67:f000:5817:93ea]) by SYCPR01MB5391.ausprd01.prod.outlook.com  
([fe80::cd67:f000:5817:93ea%5]) with mapi id 15.20.1835.018; Wed, 1 May 2019  
02:25:57 +0000

From: Anna Darby <Anna.darby@artefact.net.au>

To: "bilinga@mirramajah.com" <bilinga@mirramajah.com>  
 Subject: Identification of Interested Aboriginal Parties - Elizabeth  
 Enterprise Precinct (EEP) Aboriginal Heritage Assessment  
 Thread-Topic: Identification of Interested Aboriginal Parties - Elizabeth  
 Enterprise Precinct (EEP) Aboriginal Heritage Assessment  
 Thread-Index: AdT/xRThlJ01ldtZQC6atBUBmVpt+w==  
 Date: Wed, 1 May 2019 02:25:27 +0000  
 Message-ID:  
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 Content-Language: en-US  
 X-MS-Has-Attach: yes  
 X-MS-TNEF-Correlator:  
 authentication-results: spf=none (sender IP is )  
 smtp.mailfrom=Anna.darby@artefact.net.au;  
 x-originating-ip: [49.255.4.170]  
 x-ms-publictraffictype: Email  
 x-ms-office365-filtering-correlation-id: 51ebad8a-ed80-40e9-9784-08d6cddc5862  
 x-microsoft-antispam:  
 BCL:0;PCL:0;RULEID:(2390118)(7020095)(4652040)(7021145)(8989299)(4534185)(7022145)(4603075)(4627221)(201702281549075)(8990200)(7048125)(7024125)(7027125)(7023125)(5600141)(711020)(4605104)(2017052603328)(49563074)(7193020);SRVR:SYCP01MB3647;  
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 x-microsoft-antispam-prvs:  
 <SYCP01MB36472A28C5E7219DCF148E79C13B0@SYCP01MB3647.ausprd01.prod.outlook.com>  
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 x-forefront-prvs: 00246AB517  
 x-forefront-antispam-report:  
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 received-spf: None (protection.outlook.com: artefact.net.au does not designate permitted sender hosts)  
 x-ms-exchange-senderadcheck: 1  
 x-microsoft-antispam-message-info:  
 uWlqZ+6l3M4NnCNlYpiVQGmwBlEzepClqjoA7+K8tqflfBx2sgLoA8w+Ool6FXi/Efi89gifaKvSqXpEDuE0Zf  
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 I9OFF6YYiLqSMRFv6uYjyA84yY38Z74q6Iqe9Rz3QCCNtZkXuzDlnBm7kfkkyxoQIv/EYzvGIcL0clXQWwQ=  
 Content-Type: multipart/related;  
 boundary="\_005\_SYCP01MB53913CA7A9FD0AC278E8C1D4C13B0SYCP01MB5391ausp\_";  
 type="multipart/alternative"  
 MIME-Version: 1.0  
 X-OriginatorOrg: artefact.net.au  
 X-MS-Exchange-CrossTenant-Network-Message-Id: 51ebad8a-ed80-40e9-9784-08d6cddc5862  
 X-MS-Exchange-CrossTenant-originalarrivalttime: 01 May 2019 02:25:27.6876  
 (UTC)  
 X-MS-Exchange-CrossTenant-fromentityheader: Hosted  
 X-MS-Exchange-CrossTenant-id: 712c6a00-3f97-4cde-8256-4f1597674e7b  
 X-MS-Exchange-CrossTenant-mailboxtype: HOSTED  
 X-MS-Exchange-Transport-CrossTenantHeadersStamped: SYCP01MB3647



artefact

1 May 2019

Merrigarn Indigenous Corporation  
GPO Box 158  
Canberra City ACT 2601

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP)  
Aboriginal Heritage Assessment**

Dear Shaun Carroll,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site.

The Stage 1 site location is shown within Figure 1 below.

It is likely that Aboriginal objects will be impacted by the proposal and at least one application for an Aboriginal Heritage Impact Permit (AHIP) under section 90 of the National Parks and Wildlife Act 1974 will be required. Mirvac has engaged Artefact Heritage to complete an Aboriginal Cultural Heritage assessment for the project, including consultation in accordance with the Aboriginal cultural heritage consultation requirements for proponents 2010 (the consultation requirements) (DECCW 2010).

The contact details for the proponent are:

Russell Hogan  
Development Manager  
Mirvac  
Level 28, 200 George Street Sydney NSW 2000  
(02) 9080 8154  
Russell.Hogan@mirvac.com

The assessment of Aboriginal heritage will be prepared in accordance with the principles of the NPW Act 1974, the OEH 'Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales' (the OEH code of practice), the OEH 'Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW', and the consultation requirements.

Consultation will also be used to inform on assessment required for further development within stage 1 of the EEP which may be subject to additional development consent processes. Additional consent processes may include State Significant development under the Environmental Planning and Assessment Act 1979.

Mirvac wishes to consult with any Aboriginal persons or organisations that hold cultural knowledge relevant to determining the significance of Aboriginal objects and places in Badgerys Creek.



I would like to invite you to register an interest in the project, if you would like to be involved in the community consultation process. Please send your registration by **14 May 2019** to:

Anna Darby  
Artefact Heritage  
Building B, Level 4, 35 Saunders Street  
Pyrmont NSW 2009  
or email [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

Please note that the consultation guidelines require us to provide details of the Registered Aboriginal Parties to the Office of Environment and Heritage and Deerubbin Local Aboriginal Land Council.  
Please let me know if you would not like your details to be provided.

As part of your registration of interest, I would appreciate it if you could address the following points:

- Name and contact details of the organisation registering.
- An outline of the connection of the organisation to the Badgerys Creek Region.
- If you would like to be involved in any fieldwork, details of rates and insurances (Public Liability and Workers Compensation or equivalent).

If you require any additional information, please do not hesitate to contact me.

Yours sincerely,



Anna Darby  
Heritage consultant  
Artefact Heritage

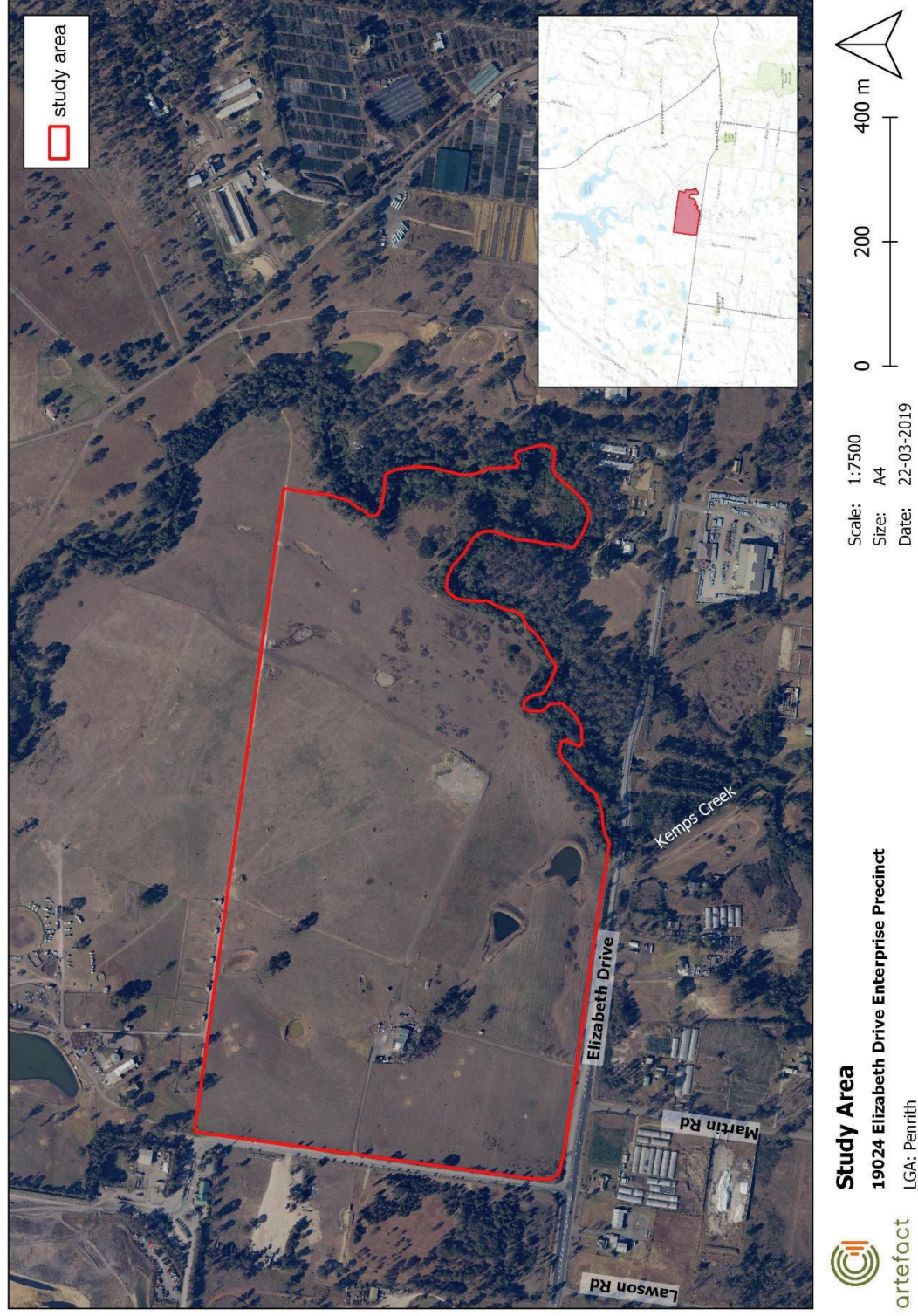
E: [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

P: 02 9518 8411

W: [www.artefact.net.au](http://www.artefact.net.au)

A: Level 4 Building B 35 Saunders Street Pyrmont NSW 2009

Figure 1: Map of study area



1 May 2019

Wullung  
54 Blackwood Street  
Gerringong NSW 2534

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP)  
Aboriginal Heritage Assessment**

Dear Lee-Roy James Boota,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site.

The Stage 1 site location is shown within Figure 1 below.

It is likely that Aboriginal objects will be impacted by the proposal and at least one application for an Aboriginal Heritage Impact Permit (AHIP) under section 90 of the National Parks and Wildlife Act 1974 will be required. Mirvac has engaged Artefact Heritage to complete an Aboriginal Cultural Heritage assessment for the project, including consultation in accordance with the Aboriginal cultural heritage consultation requirements for proponents 2010 (the consultation requirements) (DECCW 2010).

The contact details for the proponent are:

Russell Hogan  
Development Manager  
Mirvac  
Level 28, 200 George Street Sydney NSW 2000  
(02) 9080 8154  
Russell.Hogan@mirvac.com

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Consultation will also be used to inform on assessment required for further development within stage 1 of the EEP which may be subject to additional development consent processes. Additional consent processes may include State Significant development under the Environmental Planning and Assessment Act 1979.

Mirvac wishes to consult with any Aboriginal persons or organisations that hold cultural knowledge relevant to determining the significance of Aboriginal objects and places in Badgerys Creek.

I would like to invite you to register an interest in the project, if you would like to be involved in the community consultation process. Please send your registration by **14 May 2019** to:

Anna Darby  
Artefact Heritage  
Building B, Level 4, 35 Saunders Street  
Pyrmont NSW 2009  
or email [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

Please note that the consultation guidelines require us to provide details of the Registered Aboriginal Parties to the Office of Environment and Heritage and Deerubbin Local Aboriginal Land Council. Please let me know if you would not like your details to be provided.

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- An outline of the connection of the organisation to the Badgerys Creek Region.
- If you would like to be involved in any fieldwork, details of rates and insurances (Public Liability and Workers Compensation or equivalent).

If you require any additional information, please do not hesitate to contact me.

Yours sincerely,



Anna Darby  
Heritage consultant  
Artefact Heritage

E: [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

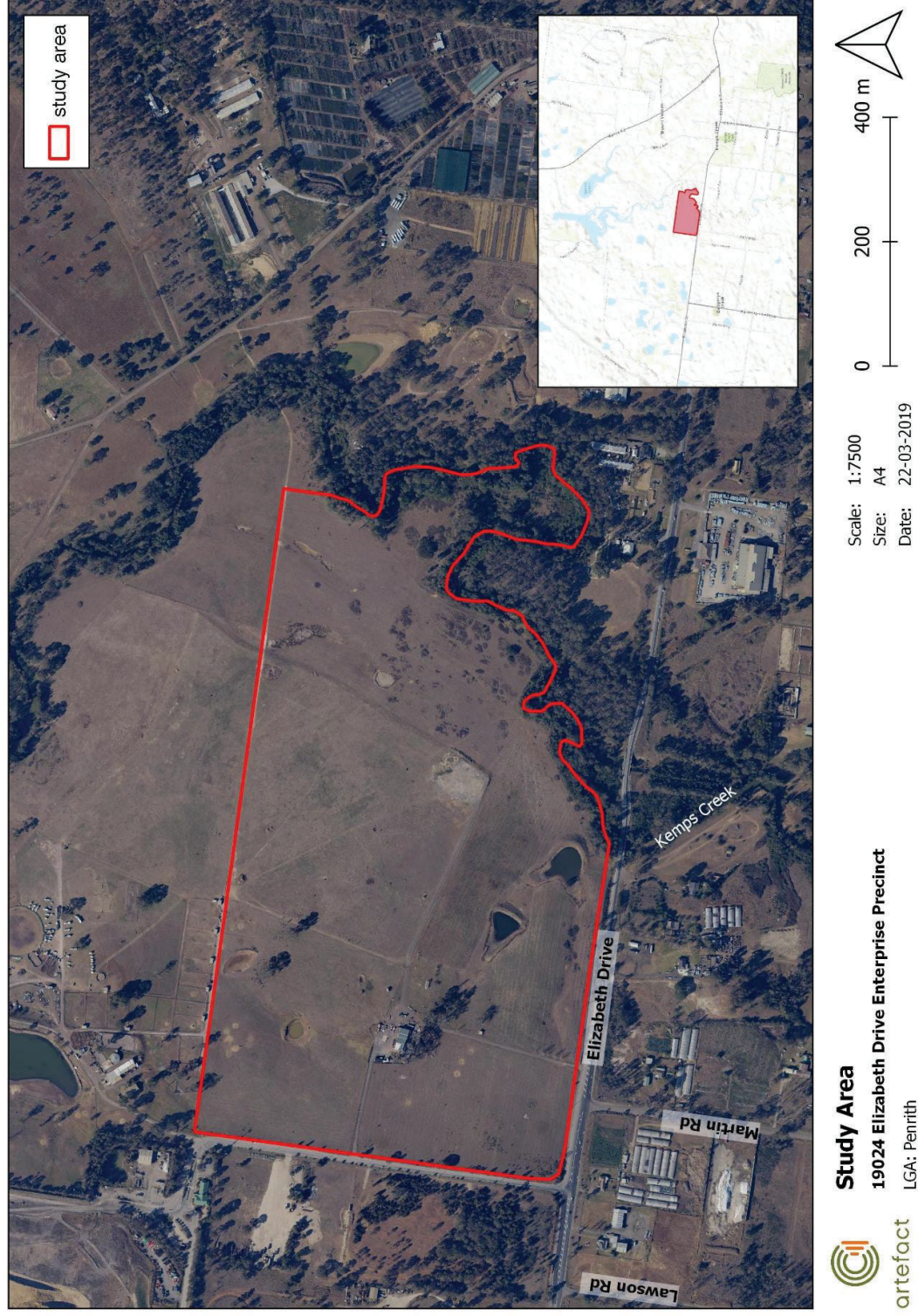
P: 02 9518 8411

W: [www.artefact.net.au](http://www.artefact.net.au)

A: Level 4 Building B 35 Saunders Street Pyrmont NSW 2009



Figure 1: Map of study area





1 May 2019

HSB Consultants  
62 Ropes Crossing Boulevard  
Ropes Crossing NSW 2760

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP)  
Aboriginal Heritage Assessment**

Dear Patricia Hampton,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site.

The Stage 1 site location is shown within Figure 1 below.

It is likely that Aboriginal objects will be impacted by the proposal and at least one application for an Aboriginal Heritage Impact Permit (AHIP) under section 90 of the National Parks and Wildlife Act 1974 will be required. Mirvac has engaged Artefact Heritage to complete an Aboriginal Cultural Heritage assessment for the project, including consultation in accordance with the Aboriginal cultural heritage consultation requirements for proponents 2010 (the consultation requirements) (DECCW 2010).

The contact details for the proponent are:

Russell Hogan  
Development Manager  
Mirvac  
Level 28, 200 George Street Sydney NSW 2000  
(02) 9080 8154  
Russell.Hogan@mirvac.com

The assessment of Aboriginal heritage will be prepared in accordance with the principles of the NPW Act 1974, the OEH 'Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales' (the OEH code of practice), the OEH 'Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW', and the consultation requirements.

Consultation will also be used to inform on assessment required for further development within stage 1 of the EEP which may be subject to additional development consent processes. Additional consent processes may include State Significant development under the Environmental Planning and Assessment Act 1979.

Mirvac wishes to consult with any Aboriginal persons or organisations that hold cultural knowledge relevant to determining the significance of Aboriginal objects and places in Badgerys Creek.

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Anna Darby  
Artefact Heritage  
Building B, Level 4, 35 Saunders Street  
Pyrmont NSW 2009  
or email [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

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Please let me know if you would not like your details to be provided.

As part of your registration of interest, I would appreciate it if you could address the following points:

- Name and contact details of the organisation registering.
- An outline of the connection of the organisation to the Badgerys Creek Region.
- If you would like to be involved in any fieldwork, details of rates and insurances (Public Liability and Workers Compensation or equivalent).

If you require any additional information, please do not hesitate to contact me.

Yours sincerely,



Anna Darby  
Heritage consultant  
Artefact Heritage

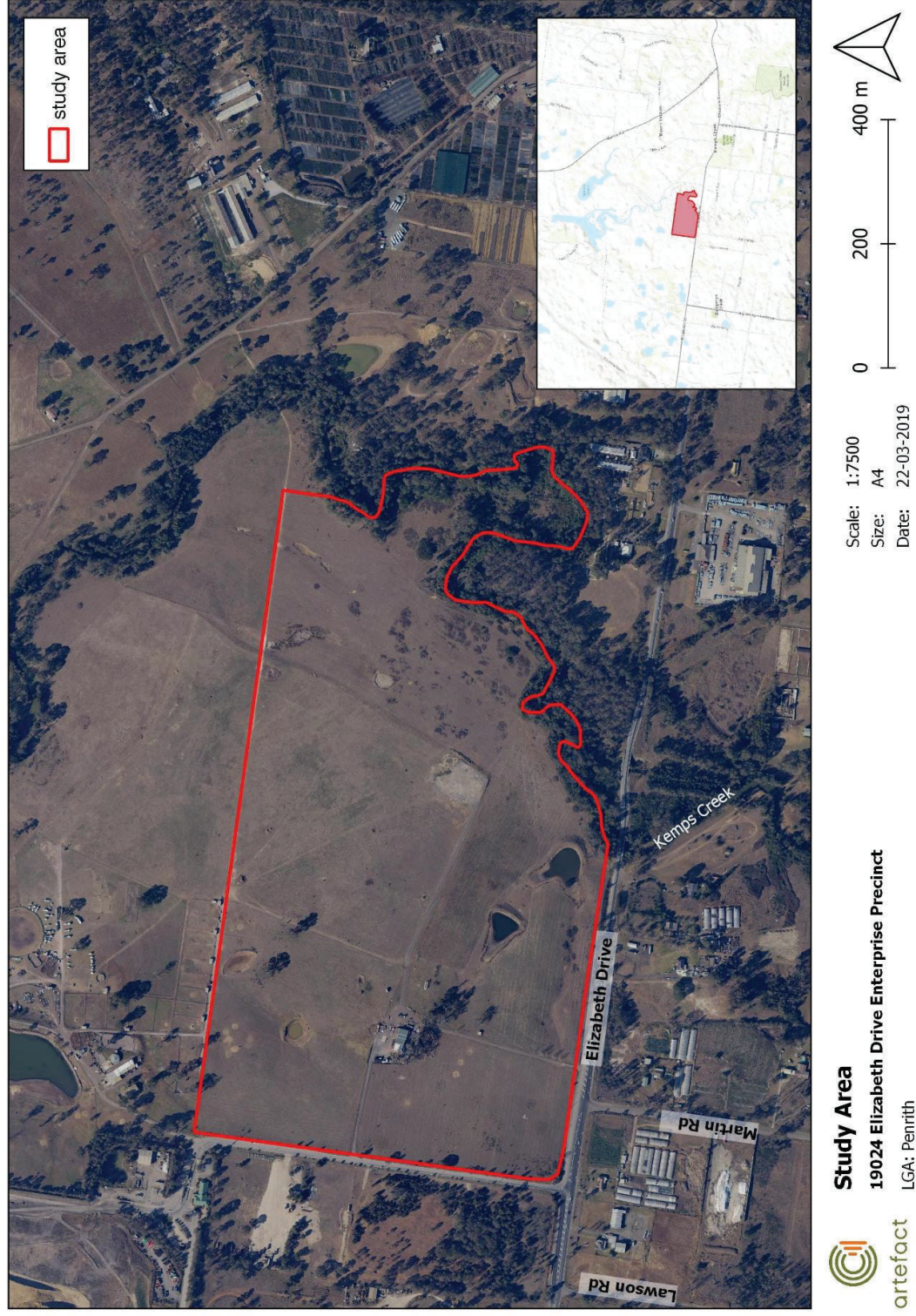
E: [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

P: 02 9518 8411

W: [www.artefact.net.au](http://www.artefact.net.au)

A: Level 4 Building B 35 Saunders Street Pyrmont NSW 2009

Figure 1: Map of study area



1 May 2019

Aboriginal Archaeology Service Incorporated  
2/24 Goodwin Street  
Narrabeen NSW 2101

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP)  
Aboriginal Heritage Assessment**

Dear Anthony Williams,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site.

The Stage 1 site location is shown within Figure 1 below.

It is likely that Aboriginal objects will be impacted by the proposal and at least one application for an Aboriginal Heritage Impact Permit (AHIP) under section 90 of the National Parks and Wildlife Act 1974 will be required. Mirvac has engaged Artefact Heritage to complete an Aboriginal Cultural Heritage assessment for the project, including consultation in accordance with the Aboriginal cultural heritage consultation requirements for proponents 2010 (the consultation requirements) (DECCW 2010).

The contact details for the proponent are:

Russell Hogan  
Development Manager  
Mirvac  
Level 28, 200 George Street Sydney NSW 2000  
(02) 9080 8154  
Russell.Hogan@mirvac.com

The assessment of Aboriginal heritage will be prepared in accordance with the principles of the NPW Act 1974, the OEH 'Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales' (the OEH code of practice), the OEH 'Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW', and the consultation requirements.

Consultation will also be used to inform on assessment required for further development within stage 1 of the EEP which may be subject to additional development consent processes. Additional consent processes may include State Significant development under the Environmental Planning and Assessment Act 1979.

Mirvac wishes to consult with any Aboriginal persons or organisations that hold cultural knowledge relevant to determining the significance of Aboriginal objects and places in Badgerys Creek.

I would like to invite you to register an interest in the project, if you would like to be involved in the community consultation process. Please send your registration by **14 May 2019** to:

Anna Darby  
Artefact Heritage  
Building B, Level 4, 35 Saunders Street  
Pyrmont NSW 2009  
or email [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

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Anna Darby  
Heritage consultant  
Artefact Heritage

E: [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

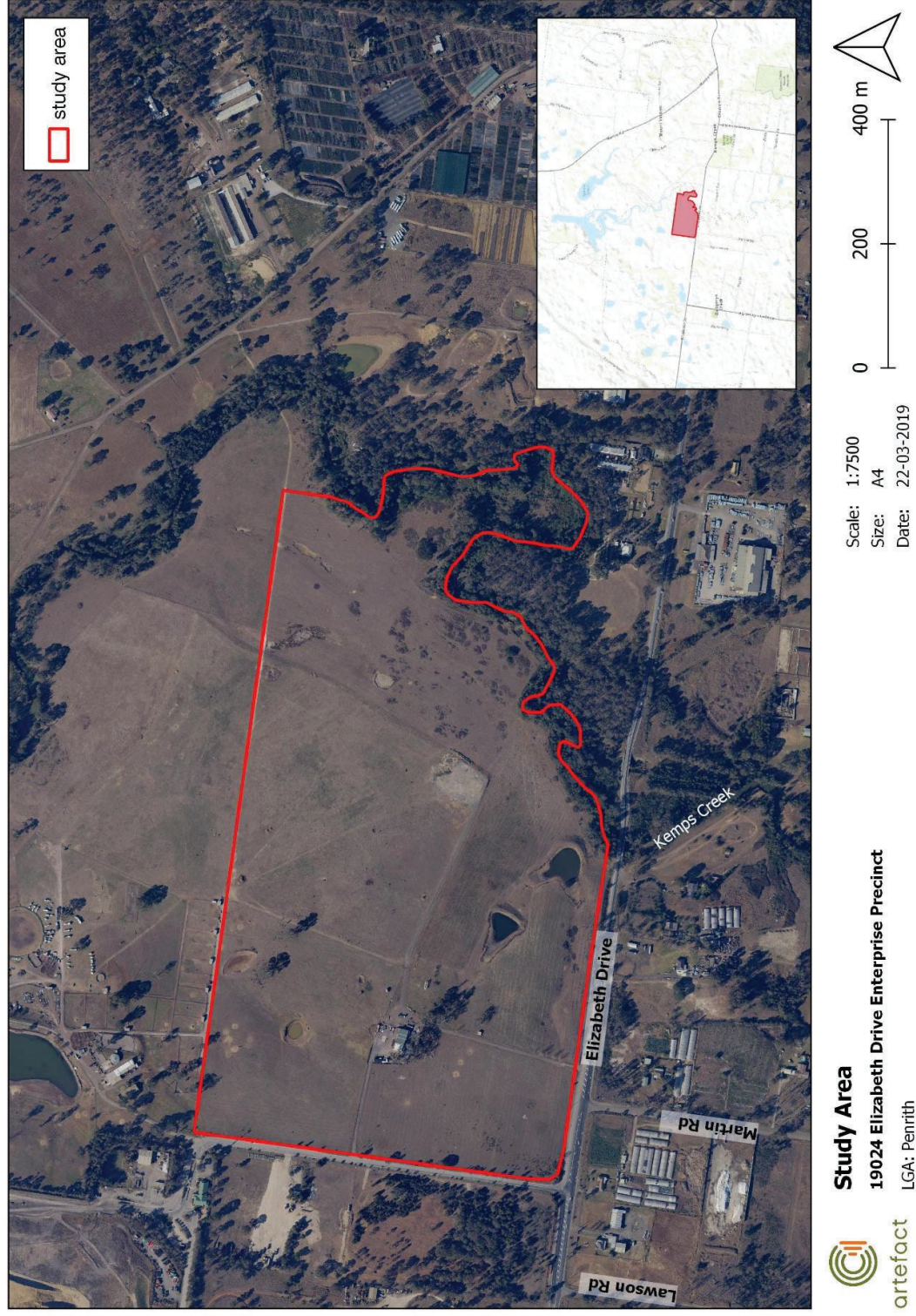
P: 02 9518 8411

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A: Level 4 Building B 35 Saunders Street Pyrmont NSW 2009



Figure 1: Map of study area



1 May 2019

Badu  
11 Jeffery Place  
Moruya NSW 2537

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP)  
Aboriginal Heritage Assessment**

Dear Karia Lea Bond,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site.

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Yours sincerely,



Anna Darby  
Heritage consultant  
Artefact Heritage

E: [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

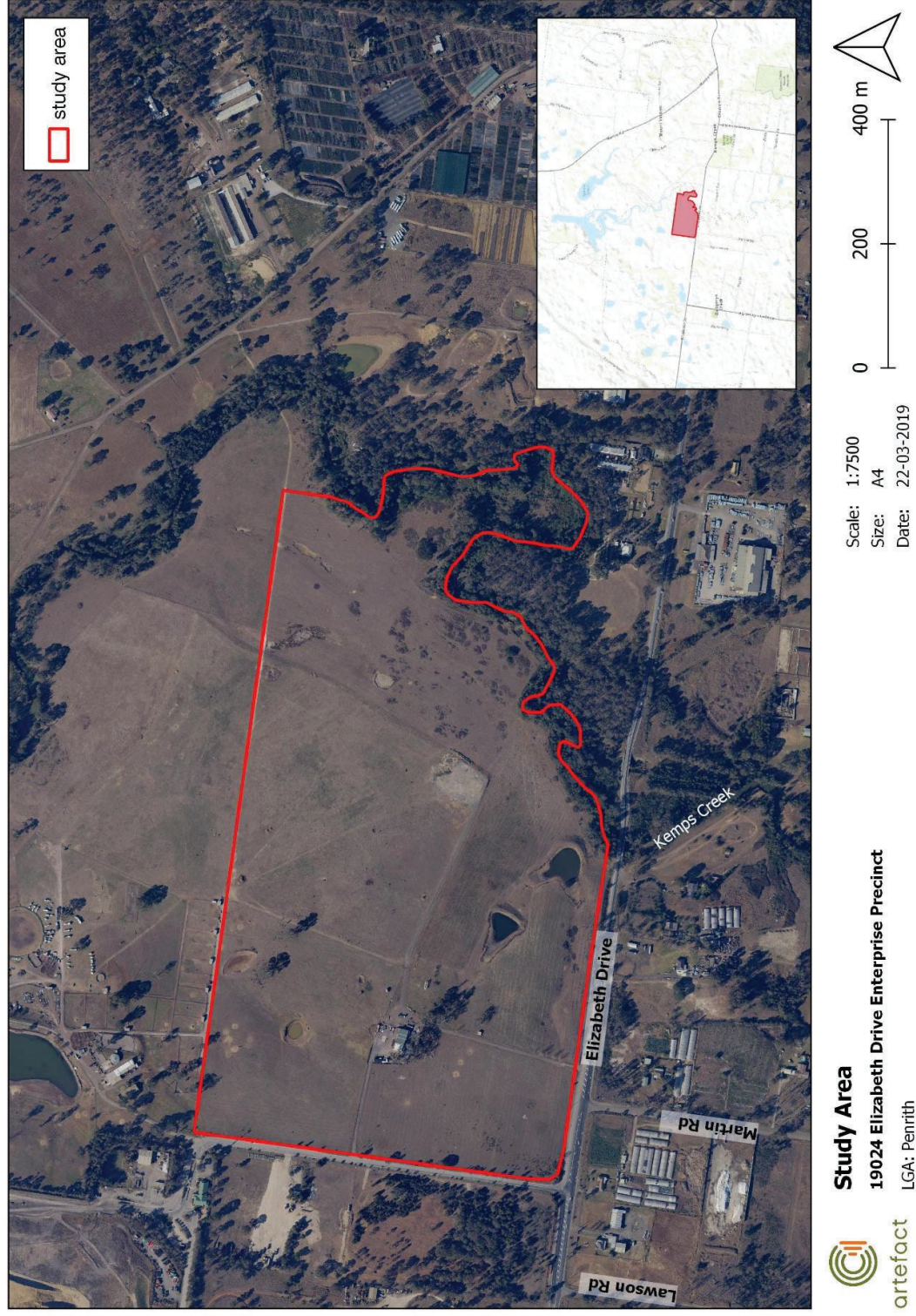
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Figure 1: Map of study area



1 May 2019

Bidjawong Aboriginal Corporation  
PO Box 124  
Round Corner NSW 2158

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP)  
Aboriginal Heritage Assessment**

Dear James Carroll,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site.

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Mirvac  
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Russell.Hogan@mirvac.com

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Yours sincerely,



Anna Darby  
Heritage consultant  
Artefact Heritage

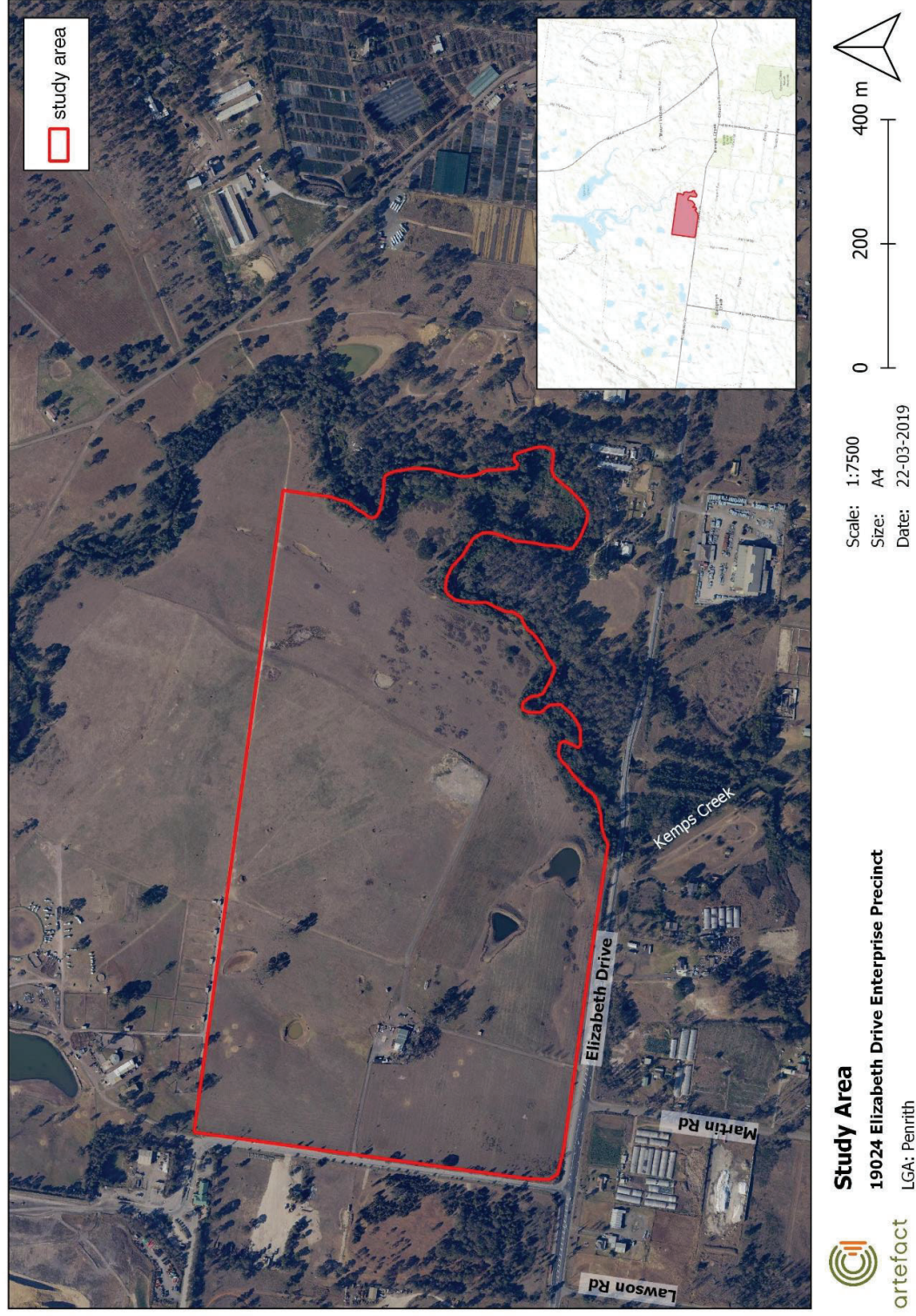
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P: 02 9518 8411

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Figure 1: Map of study area



1 May 2019

Darug Aboriginal Cultural Heritage Assessments  
9/6 Chapman Avenue  
Chatswood NSW 2067

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP)  
Aboriginal Heritage Assessment**

Dear Gordon Morton,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site.

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Artefact Heritage  
Building B, Level 4, 35 Saunders Street  
Pyrmont NSW 2009  
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If you require any additional information, please do not hesitate to contact me.

Yours sincerely,



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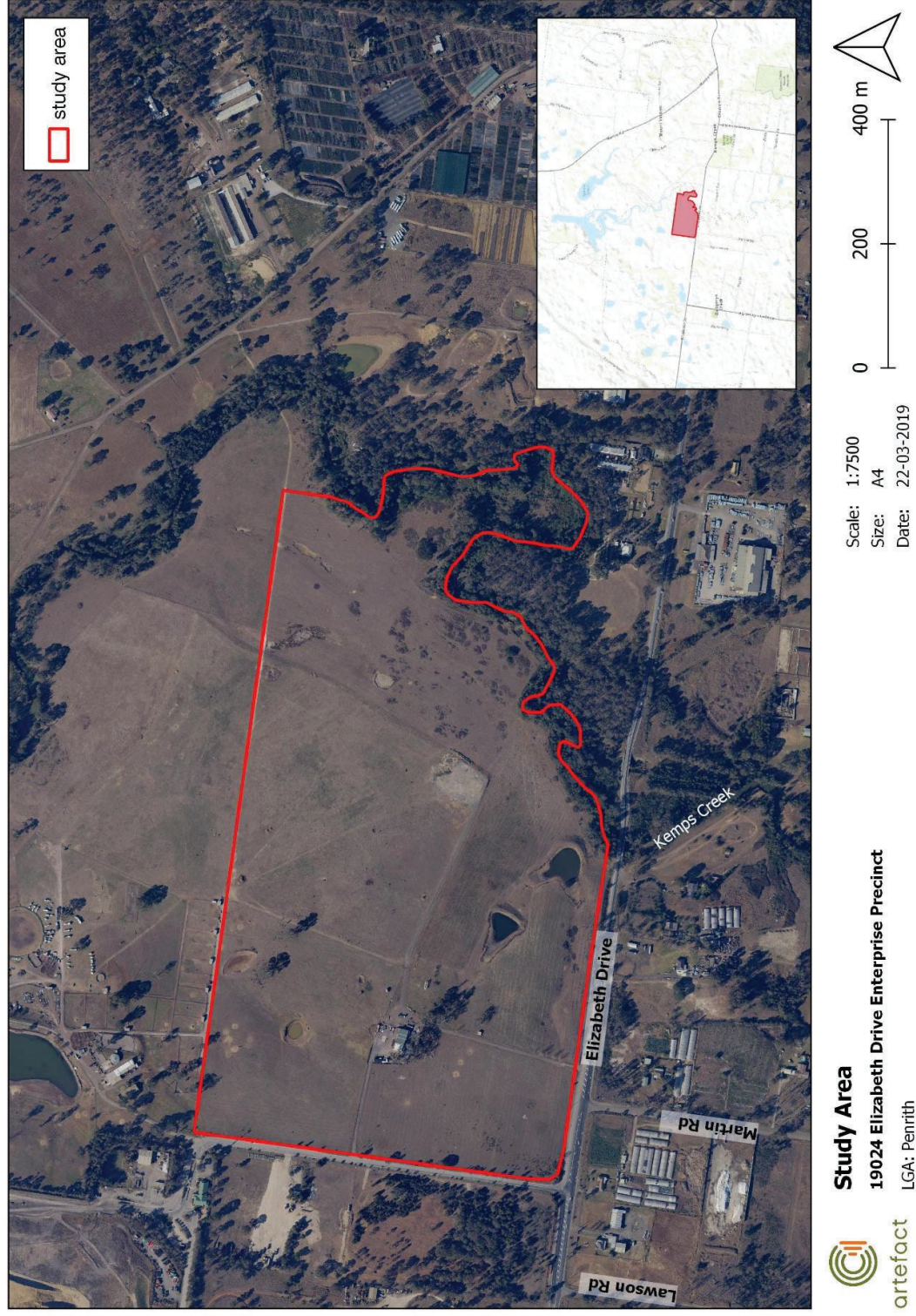
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Figure 1: Map of study area





## Anna Darby

---

**From:** Anna Darby  
**Sent:** Thursday, 2 May 2019 10:50 AM  
**To:** hamptonralph46@gmail.com  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

2 May 2019

B.H Heritage Consultants  
184 Captain Cook Drive  
Willmot 2770 NSW

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Ralph Hampton,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site.

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(02) 9080 8154  
Russell.Hogan@mirvac.com

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Mirvac wishes to consult with any Aboriginal persons or organisations that hold cultural knowledge relevant to determining the significance of Aboriginal objects and places in Badgerys Creek.

I would like to invite you to register an interest in the project, if you would like to be involved in the community consultation process. Please send your registration by **15 May 2019** to:

Anna Darby  
Artefact Heritage  
Building B, Level 4, 35 Saunders Street  
Pymont NSW 2009  
or email [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

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If you require any additional information, please do not hesitate to contact me.

Yours sincerely,



Anna Darby  
Heritage consultant  
Artefact Heritage

E: [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

P: 02 9518 8411

W: [www.artefact.net.au](http://www.artefact.net.au)

A: Level 4 Building B 35 Saunders Street Pymont NSW 2009

Figure 1: Map of study area



## Anna Darby

---

**From:** Anna Darby  
**Sent:** Thursday, 2 May 2019 10:50 AM  
**To:** nhampton77@gmail.com  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

2 May 2019

B.H Heritage Consultants  
95 Mount Ettalong Road  
Umina Beach 2257 NSW

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Nola Hampton,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site.

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P: 02 9518 8411

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A: Level 4 Building B 35 Saunders Street Pyrmont NSW 2009



Figure 1: Map of study area



2 May 2019

Mura Indigenous Corporation  
11 Nargal Street  
Flinders 2529 NSW

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP)  
Aboriginal Heritage Assessment**

Dear Phillip Carroll,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site.

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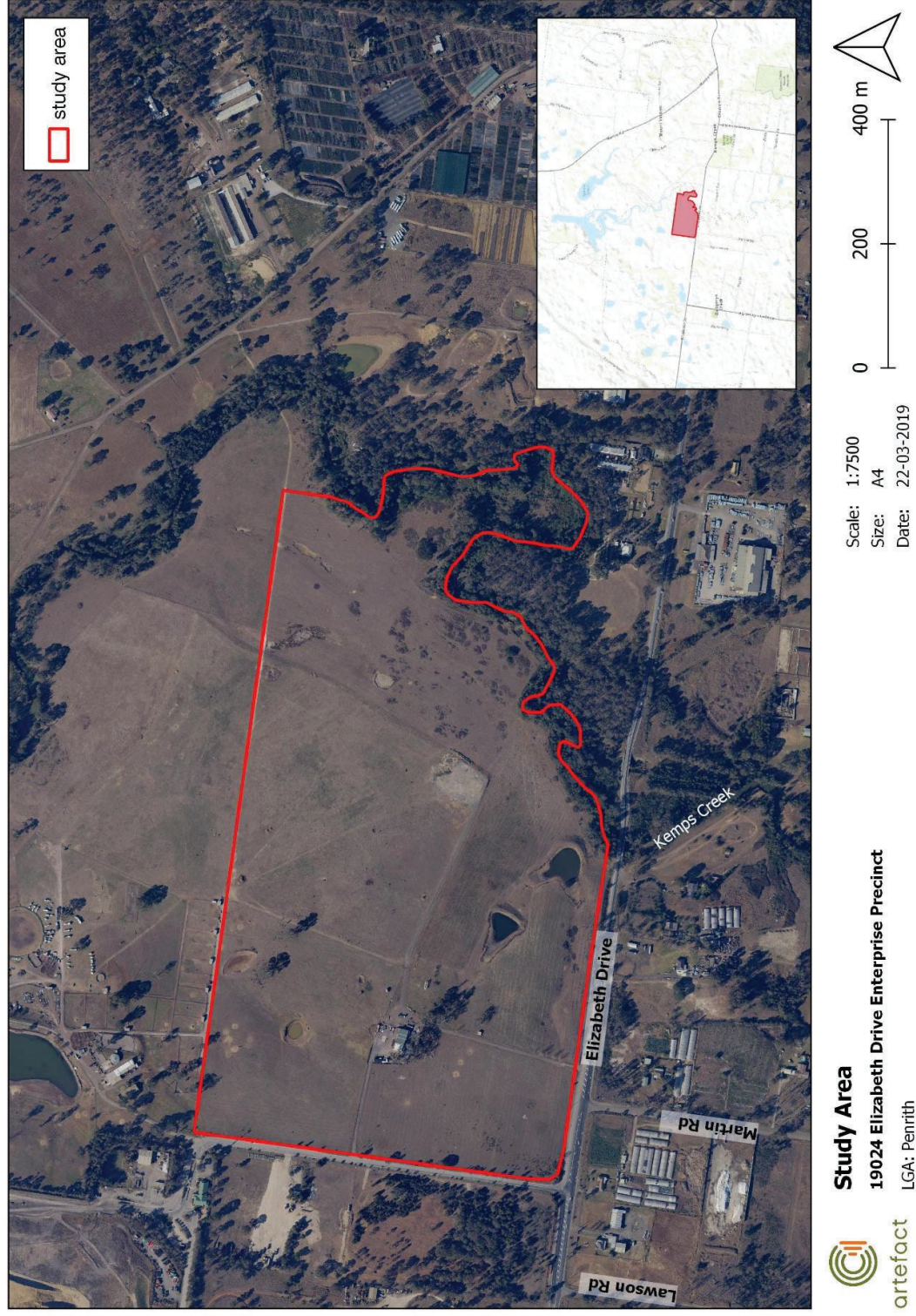
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Figure 1: Map of study area



## Registration of interest



## Anna Darby

---

**From:** Amanda Hickey <Amandahickey@live.com.au>  
**Sent:** Wednesday, 1 May 2019 12:42 PM  
**To:** Anna Darby  
**Subject:** AHCS registration for badgerys creek.

Thank you for the email

Attached is my insurance and daily rates for the field work on insurance and daily rates for the field work.

Daily Rate

Price (ex GST) \$695:45

GST \$69:55

Price (In GST) \$765:00 Daily Rate

If you need anything else from me please feel free to contact me

On [0434480558](tel:0434480558)

Or [amandahickey@live.com.au](mailto:amandahickey@live.com.au)

Have a great day look forward to working with you on the project

Amanda AHCS

Get [Outlook for Android](#)

## Anna Darby

---

**From:** Amanda Hickey <Amandahickey@live.com.au>  
**Sent:** Wednesday, 1 May 2019 12:40 PM  
**To:** Anna Darby  
**Subject:** Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment  
**Attachments:** 944.pdf

Hi Anna

Thank you for your email

AHCS would like to register an interest in the project for badgerys creek

AHCS holds cultural knowledge towards determining indigenous artefacts and cultural knowledge towards the land of badgerys creek.

Attached is AHCS insurance and daily rates for the field work and insurance  
Public liability for 10 million and daily rates for the field work.

Daily Rate

Price (ex GST) \$695:45

GST \$69:55

Price (In GST) \$765:00 Daily Rate

If you need anything else from me please feel free to contact me

On [0434480558](tel:0434480558)

Or [amandahickey@live.com.au](mailto:amandahickey@live.com.au)

Have a great day  
And hope to working with you on the project

Amanda AHCS

Get [Outlook for Android](#)

---

**From:** Anna Darby <Anna.darby@artefact.net.au>  
**Sent:** Wednesday, May 1, 2019 12:25:15 PM  
**To:** amandahickey@live.com.au  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

Amanda Hickey Cultural Services  
57 Gough St  
Emu Plains NSW 2750

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Amanda Hickey,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site. Further development within stage 1 may be subject to additional approval pathways.

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Development Manager  
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If you require any additional information, please do not hesitate to contact me.

Yours sincerely,

A handwritten signature in dark ink, appearing to read 'A Darby', with a stylized, cursive script.

Anna Darby  
Heritage consultant  
Artefact Heritage

E: [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

P: 02 9518 8411

W: [www.artefact.net.au](http://www.artefact.net.au)

A: Level 4 Building B 35 Saunders Street Pyrmont NSW 2009

Figure 1: Map of study area







**Barking Owl Aboriginal Corporation**  
**ICN: 8822 ABN: 88241973761**  
**2-65/69 Wehlow St MT DRUITT NSW 2770**  
**[barkingowlcorp@gmail.com](mailto:barkingowlcorp@gmail.com)**

---

**6 May 2019**

**Dear Anna,**

**RE: 1669-1723 ELIZABETH DR BADGERYS CREEK NSW ABORIGINAL CULTURAL  
HERITAGE ASSESSMENT**

We would like to register interest for full consultation and involvement in the study area.

<b>Registering Aboriginal Party:</b>	<b>Barking Owl Aboriginal Corporation</b>
<b>Contact Person:</b>	<b>Jody Kulakowski</b>
<b>Phone:</b>	<b>0426 242 015</b>
<b>Email:</b>	<b><u><a href="mailto:barkingowlcorp@gmail.com">barkingowlcorp@gmail.com</a></u> (preferred contact method)</b>

Cultural connection - The area is an important part of our culture due to previous generations living in and around the area, we maintain a special connection and responsibility as current generations whom continue to reside nearby and share in stories of our history relating to the location.

We are able to provide fit and hardworking site officers to assist with work that may involve physical labour with current white cards and all PPE equipment.

We can provide copies of relevant certificates of currency for business insurances on request.

Members put forward have experience in a variety of community consultation projects.

Please feel free to contact by email [barkingowlcorp@gmail.com](mailto:barkingowlcorp@gmail.com) if you require any further information.

**Kind regards**

**Jody Kulakowski**  
**BOAC**



Barraby Cultural Services  
ABN: 65 112 720 796  
11 Waterhouse Place  
Airds NSW 2560  
M: 0431 314 892  
E: barrabyculturalservices@gmail.com

08/05/2019

Anna Darby  
Artefact Heritage  
Building B, Level 4, 35 Saunders Street  
Pyrmont NSW 2009

**Re: Registration Of Interest ACHA: Elizabeth Enterprise Precinct (EEP)**

Barraby Cultural Services would like to be involved in all aspects of this project such as any upcoming Consultation Meetings, heritage identification, assessment and management and Fieldwork.

Attached are our Certificates of Currency for your records.

Our rates for field work: \$880 p/day

Our family hold a strong connection to the Campbelltown and surrounding areas (Badgerys Creek) we have cultural and ancestral connection to the area where our family line comes down through the Dharawal tribe.

I have great pride in my culture and I acknowledge the lands that I live and work on and I pay my respects to the elders past and present and I am a active member within the Sydney Basin Aboriginal Communities.

I have completed all the tasks as directed and meet the physical labour and all the requirements listed below

- Transects
- Science excavation
- Artefacts analysis
- Wet and dry seiving
- Monitoring
- White Card – available on request
- Experience in Aboriginal Cultural Heritage in Aboriginal Archaeology
- Western Sydney Airport Project

- Mt Gilead Project
- South Coast Regions NSW & Western Sydney / South Western Sydney Regions

Kind Regards  
Lee Field  
Barraby Cultural Services

## Jennifer Norfolk

---

**From:** Anna Darby  
**Sent:** Monday, 6 May 2019 2:02 PM  
**To:** Jennifer Norfolk  
**Subject:** Fwd: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment  
**Attachments:** A1WC2020.pdf; A1PLInsurance2020.pdf

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---

**From:** Caza X <cazadirect@live.com>  
**Sent:** Monday, May 6, 2019 10:35:57 AM  
**To:** Anna Darby  
**Subject:** Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

## A1

### Indigenous Services

Contact: Carolyn  
M: 0411650057  
E: Cazadirect@live.com  
A: 10 Marie Pitt Place, Glenmore Park, NSW 2745  
ABN: 20 616 970 327

Hi Anna,

A1 would like to register for consultation and an field work for this project.

I have working out at Badgerys Creek for the past 6 months, I am a traditional owner that holds connection to this area, I have been participating in field survey works for 15 years, I am one of the eldest remaining family member working in this industry, at 40 years old I am known and recognised among my peers as a knowledge holder.

I have attached a contact of reference to attest to our quality of work participating in the field work at Badgerys Creek and Northern Road.

[Reference;](#)

[Tristan Miller \(Kelleher Nightingale Consulting\)](#)

[Mobile ; 0432925680](#)

<u>Daily Rate</u>	<u>Weekend Rate</u>
\$660. per day	\$770. per day

<u>3 or More, field Workers</u>	<u>Weekend Rate</u>
<u>\$550. per day</u>	<u>\$660. per day</u>

ALL PRICING INCLUSIVE OF GST

[INSURANCES ATTACHED](#)

Thank you  
Carolyn Hickey

---

**From:** Anna Darby <Anna.darby@artefact.net.au>  
**Sent:** Wednesday, 1 May 2019 12:41 PM  
**To:** cazadirect@live.com  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

A1 Indigenous Services  
73 Russell Street  
Emu Plains NSW 2750

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Carolyn Hickey,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site.

The Stage 1 site location is shown within Figure 1 below.

It is likely that Aboriginal objects will be impacted by the proposal and at least one application for an Aboriginal Heritage Impact Permit (AHIP) under section 90 of the National Parks and Wildlife Act 1974 will be required. Mirvac has engaged Artefact Heritage to complete an Aboriginal Cultural Heritage assessment for the project, including consultation in accordance with the Aboriginal cultural heritage consultation requirements for proponents 2010 (the consultation requirements) (DECCW 2010).

The contact details for the proponent are:

Russell Hogan  
Development Manager  
Mirvac  
Level 28, 200 George Street Sydney NSW 2000  
(02) 9080 8154  
Russell.Hogan@mirvac.com

The assessment of Aboriginal heritage will be prepared in accordance with the principles of the NPW Act 1974, the OEH 'Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales' (the OEH code of practice), the OEH 'Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW', and the consultation requirements.



Mirvac wishes to consult with any Aboriginal persons or organisations that hold cultural knowledge relevant to determining the significance of Aboriginal objects and places in Badgerys Creek.

I would like to invite you to register an interest in the project, if you would like to be involved in the community consultation process. Please send your registration by **14 May 2019** to:

Anna Darby

Artefact Heritage

Building B, Level 4, 35 Saunders Street

Pymont NSW 2009

or email [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

Please note that the consultation guidelines require us to provide details of the Registered Aboriginal Parties to the Office of Environment and Heritage and Deerubbin Local Aboriginal Land Council. Please let me know if you would not like your details to be provided.

As part of your registration of interest, I would appreciate it if you could address the following points:

- Name and contact details of the organisation registering.
- An outline of the connection of the organisation to the Badgerys Creek Region.
- If you would like to be involved in any fieldwork, details of rates and insurances (Public Liability and Workers Compensation or equivalent).

If you require any additional information, please do not hesitate to contact me.

Yours sincerely,



Anna Darby  
Heritage consultant  
Artefact Heritage

E: [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

P: 02 9518 8411

W: [www.artefact.net.au](http://www.artefact.net.au)

A: Level 4 Building B 35 Saunders Street Pymont NSW 2009

Figure 1: Map of study area



## Jennifer Norfolk

---

**From:** Kelly Barton  
**Sent:** Wednesday, 15 May 2019 3:59 PM  
**To:** Jennifer Norfolk  
**Subject:** Celestine call to register interest in two projects

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Hi Jen,

Celestine from Darug Aboriginal Cultural Heritage Assessments (DACHA) called to say that she wanted to register interest in two projects;

1. Regent Street, REDFERN
2. Elizabeth Drive, Badgerys Creek

Give her a call if there's any problems on 02 9410 3665.

Kind regards,

**Kelly Barton**  
**Office Manager**


### **ARTEFACT**

**Telephone:** 61 2 9518 8411

**Address:** Level 4, Building B, 35 Saunders Street, Pyrmont NSW 2009

**Web:** [www.artefact.net.au](http://www.artefact.net.au)

Cultural Heritage Management | Archaeology | Heritage Interpretation

 *We acknowledge the Traditional Custodians of Country in which we live and work, and pay our respects to them, their culture and their Elders past, present and future*

**Notice:** This message contains privileged and confidential information intended only for the use of the addressee. If you are not the intended recipient you must not disseminate, copy or take any action in reliance upon it. If you received this in error, please notify us immediately.

## Anna Darby

---

**From:** desmond dyer <desmond4552@hotmail.com>  
**Sent:** Wednesday, 1 May 2019 8:16 PM  
**To:** Anna Darby  
**Subject:** Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment  
**Attachments:** letter of register 1.odt

Hi Anna,  
This is our letter to register for this project  
Kind regards  
Des

---

**From:** Anna Darby <Anna.darby@artefact.net.au>  
**Sent:** Wednesday, 1 May 2019 12:40 PM  
**To:** desmond4552@hotmail.com  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019

Des Dyer  
18a Perigee Close  
Doonside NSW 2767

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Des Dyer,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site.

The Stage 1 site location is shown within Figure 1 below.

It is likely that Aboriginal objects will be impacted by the proposal and at least one application for an Aboriginal Heritage Impact Permit (AHIP) under section 90 of the National Parks and Wildlife Act 1974 will be required. Mirvac has engaged Artefact Heritage to complete an Aboriginal Cultural Heritage assessment for the project, including consultation in accordance with the Aboriginal cultural heritage consultation requirements for proponents 2010 (the consultation requirements) (DECCW 2010).

The contact details for the proponent are:

Russell Hogan  
Development Manager  
Mirvac  
Level 28, 200 George Street Sydney NSW 2000  
(02) 9080 8154  
Russell.Hogan@mirvac.com

The assessment of Aboriginal heritage will be prepared in accordance with the principles of the NPW Act 1974, the OEH 'Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales' (the OEH code of practice), the OEH 'Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW', and the consultation requirements.

Mirvac wishes to consult with any Aboriginal persons or organisations that hold cultural knowledge relevant to determining the significance of Aboriginal objects and places in Badgerys Creek.

I would like to invite you to register an interest in the project, if you would like to be involved in the community consultation process. Please send your registration by **14 May 2019** to:

Anna Darby

Artefact Heritage

Building B, Level 4, 35 Saunders Street

Pymont NSW 2009

or email [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

Please note that the consultation guidelines require us to provide details of the Registered Aboriginal Parties to the Office of Environment and Heritage and Deerubbin Local Aboriginal Land Council. Please let me know if you would not like your details to be provided.

As part of your registration of interest, I would appreciate it if you could address the following points:

- Name and contact details of the organisation registering.
- An outline of the connection of the organisation to the Badgerys Creek Region.
- If you would like to be involved in any fieldwork, details of rates and insurances (Public Liability and Workers Compensation or equivalent).

If you require any additional information, please do not hesitate to contact me.

Yours sincerely,



Anna Darby  
Heritage consultant  
Artefact Heritage

E: [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

P: 02 9518 8411

W: [www.artefact.net.au](http://www.artefact.net.au)

A: Level 4 Building B 35 Saunders Street Pymont NSW 2009





Figure 1: Map of study area





DARUG LAND  
OBSERVATIONS PTY LTD  
ABN 27 602 765 453

---

Email: [daruglandobservations@gmail.com](mailto:daruglandobservations@gmail.com)  
PO BOX 173 ulladulla NSW 2539  
Mobile: 0413 687 279

6<sup>th</sup> May, 2019

Att: Anna Darby  
Artefact Heritage  
Building B, Level 44, 35 Saunders Street  
PYRMONT NSW 2009

**Notification and Registration of ALL Aboriginal Interests**

RE: STAGE 1 ELIZABETH ENTERPRISE PRECINCT –  
1669-1723 ELIZABETH DRIVE, BADGERYS CREEK  
Aboriginal Cultural Heritage Assessment

Dear Anna,

Please be advised that Darug Land Observations Pty Ltd is seeking to be involved in any and all consultation meetings and fieldwork.

This office specialises in Aboriginal and community consultations, and has a membership that comprises of Traditional owners from the area in question. Those retain strong story, song lines, oral history and continued contact.

We would also like to state that we do not accept or support any person or organisation that are NOT from the DARUG Nation that comments regarding the said area.

Please also be advised that this Aboriginal organisation does not do volunteer work or attend unpaid meetings. I hope that you advise your client of this so that, 'This Group', will not be discriminated against and refused paid fieldwork. DLO's rate is \$440 half day (less than 4 hours) and \$880 per day (flat rate), including GST.

All correspondence should be emailed to: [daruglandobservations@gmail.com](mailto:daruglandobservations@gmail.com) and any further consultation during this project can be directed to Anna O'Hara on mobile 0413 687 279.

Yours sincerely,

Jamie Workman  
Darug Land Observations Pty Ltd

Uncle Gordon Workman  
Darug Elder

## Anna Darby

---

**From:** lilly carroll <didgengunawalclan@yahoo.com.au>  
**Sent:** Wednesday, 1 May 2019 5:14 PM  
**To:** Anna Darby  
**Subject:** Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) A

Hi Anna,

Didge Ngunawal Clan would like to register an interest into Elizabeth Enterprise Precinct,

Paul Boyd- [0426823944](tel:0426823944) is the main contact for Didge Ngunawal Clan,

Address is 33 Carlyle Crescent Cambridge Gardens 2747,

Our connection to Badgerys Creek is our mother lives @ 254 Mamre Rd and my brother also lives @ 752 Mamre Rd where the horse sheds

are.



Done

1 of 6

INSURANCE  
ADVISERNET

Allianz



22 February 2019

**Policy number**  
171AN00368COM**Period of Insurance**  
From 23 February 2019  
To 4pm on 1 March 2020

## Your Business Pack Certificate of Currency

This Certificate of Currency has been issued by the Insurer and confirms that on the Date of Issue the Policy is current for the Period of Insurance and Sums Insured and other limits as shown herein.

This Certificate of Currency is issued as a matter of information only and confers no rights upon its holder. This Certificate of Currency does not form part of the terms and conditions of the Policy and does not amend, extend, replace or alter the terms, conditions, definitions, limitations and exclusions noted therein.

This Certificate of Currency is provided as a summary only of the cover provided and is current only at the Date of Issue. The Policy may be subsequently altered or cancelled in accordance with its terms after the Date of Issue of this notice without further notice to the holder of this notice.

Certain words used in this document and the Policy have special meanings. The General Definitions Section of the Product Disclosure Statement (PDS) contains such terms. Please read the PDS, the Schedule and any other documents that form part of the Policy for the terms and conditions of cover:

**Date of Issue:**

22 February 2019

**Insurer**Allianz Australia Insurance Limited  
ABN 15 000 122 850  
AFS Licence No. 234708 (Allianz)  
2 Market Street, Sydney NSW 2000**Details**

Insured(s)

Didge Ngunawal Clan Aboriginal

Trading as

Didge Ngunawal Clan Aboriginal

Business

Aboriginal Heritage Surveyor



## Situation

7 Siskin St QUAKERS HILL NSW 2763

### Liability

Description	Limit of Liability
Public Liability any one Occurrence	\$20,000,000
Products Liability any one Occurrence and in the aggregate any one Period of Insurance	\$20,000,000
Property in Physical or Legal Control any one Occurrence and in the aggregate any one Period of Insurance	\$250,000

*Cover is provided anywhere within the Territorial Limits, including Australia or its external territories and the Situations and any other Australian locations set out in this document. Refer to the Product Disclosure Statement (PDS) for full details.*

Kind regards,



Richard Feledy  
**Managing Director**  
**Allianz Australia Limited**



Paul Boyd  
DIDGE NGUNAWAL CLAN ABORIGINAL  
7 SISKIN STREET  
QUAKERS HILL NSW 2763

**issue d**

02/11/

**print d**

02/11/

Dear Paul

## statement of coverage

The following policy of insurance covers the full amount of the employer's liability under the *Workers Compensation Act 1987*(NSW).

## valid until

31/10/2019

### policy number

120369501

### legal name

DIDGE NGUNAWAL CLAN ABORIGINAL

### trading name

DIDGE NGUNAWAL CLAN ABORIGINAL

### abn

83 857 193 147

### acn

### industry classification number (WIC)

782200 Surveying Services

### number of workers\*

2

### wages/u

\$9,897.

- \* Number of workers includes contractors/deemed workers
- + Total wages/units estimated for the current period

## important information

Principals relying on this certificate should ensure it is accompanied by a statement under section 175B of the *Workers Compensation Act 1987 (NSW)*. Principals should also check and satisfy themselves that the information is correct and ensure that the proper workers compensation insurance is in place, ie. compare the number of employees on site to the average number of employees estimated;

Yours faithfully,



Jason McLaughlin  
General Manager, Loss Prevention and Pricing



DNC wish to be involved in the fieldwork for this project,

Our rates include \$800 day rate and \$450 Half day rate, with GST exclusive

Kind regards

Paul Boyd & Lilly Carroll

Directors DNC

[Sent from Yahoo Mail for iPhone](#)

On Wednesday, May 1, 2019, 12:26 pm, Anna Darby <Anna.darby@artefact.net.au> wrote:

1 May 2019

Didge Ngunawal Clan

7 Siskin St

Quakers Hill NSW 2763



**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP)  
Aboriginal Heritage Assessment**

Dear Paul Boyd and Lillie Carrol,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site. Further development within stage 1 may be subject to additional approval pathways.

The Stage 1 site location is shown within Figure 1 below.

It is likely that Aboriginal objects will be impacted by the proposal and at least one application for an Aboriginal Heritage Impact Permit (AHIP) under section 90 of the National Parks and Wildlife Act 1974 will be required. Mirvac has engaged Artefact Heritage to complete an Aboriginal Cultural Heritage assessment for the project, including consultation in accordance with the Aboriginal cultural heritage consultation requirements for proponents 2010 (the consultation requirements) (DECCW 2010).

The contact details for the proponent are:

Russell Hogan  
Development Manager  
Mirvac

Level 28, 200 George Street Sydney NSW 2000  
[\(02\) 9080 8154](tel:(02)90808154)  
Russell.Hogan@mirvac.com

The assessment of Aboriginal heritage will be prepared in accordance with the principles of the NPW Act 1974, the OEH 'Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales' (the OEH code of practice), the OEH 'Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW', and the consultation requirements.

Mirvac wishes to consult with any Aboriginal persons or organisations that hold cultural knowledge relevant to determining the significance of Aboriginal objects and places in Badgerys Creek.

I would like to invite you to register an interest in the project, if you would like to be involved in the community consultation process. Please send your registration by **14 May 2019** to:

Anna Darby

Artefact Heritage

Building B, Level 4, 35 Saunders Street

Pymont NSW 2009

or email [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

Please note that the consultation guidelines require us to provide details of the Registered Aboriginal Parties to the Office of Environment and Heritage and Deerubbin Local Aboriginal Land Council. Please let me know if you would not like your details to be provided.

As part of your registration of interest, I would appreciate it if you could address the following points:

- Name and contact details of the organisation registering.
- An outline of the connection of the organisation to the Badgerys Creek Region.
- If you would like to be involved in any fieldwork, details of rates and insurances (Public Liability and Workers Compensation or equivalent).

If you require any additional information, please do not hesitate to contact me.

Yours sincerely,



Anna Darby

Heritage consultant

Artefact Heritage

E: [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

P: [02 9518 8411](tel:0295188411)

W: [www.artefact.net.au](http://www.artefact.net.au)

Figure 1: Map of study area



## Jennifer Norfolk

---

**From:** Anna Darby  
**Sent:** Friday, 10 May 2019 10:24 AM  
**To:** Jennifer Norfolk  
**Subject:** Fwd: badgerys creek

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---

**From:** Glenda Chalker <kgchalker@bigpond.com>  
**Sent:** Wednesday, May 8, 2019 10:48:26 AM  
**To:** Anna Darby  
**Subject:** badgerys creek

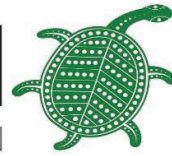
Anna,  
I would like to register an interest in the proposed project by Mirvac in Elizabeth Drive, Badgerys Creek, on behalf of Cubbitch Barta

Thanking You

Glenda Chalker  
0427218425

# DARUG CUSTODIAN

ABORIGINAL CORPORATION



DARUG CUSTODIAN  
ABORIGINAL  
CORPORATION

PO BOX 81 WINDSOR 2756  
PHONE: 0245775181 FAX: 0245775098  
MOBILE: 0414962766 Justine Coplin  
EMAIL: justinecoplin@optusnet.com.au

---

**Attention artefacts**

**Date:040519**

**Subject:** Elizabeth Enterprise Precinct 1669-1723 Elizabeth Drive, Badgerys Creek

Dear Anna

Our group is a non- profit organisation that has been active for over forty years in Western Sydney, we are a Darug community group with over three hundred members. The main aim in our constitution is the care of Darug sites, places, wildlife and to promote our culture and provide education on the Darug history.

The Badgerys Creek area is an area that our group has a vast knowledge of, we have worked and lived in for many years, this area is significant to the Darug people due to the connection of sites and the continued occupation. Our group has been involved in all previous assessments and works in this area as a traditional owner Darug group for the past 40 plus years.

Therefore we would like to register our interest for full consultation and involvement in the above project area.

Please contact us with all further enquiries on the above contacts.

Regards



Justine Coplin

## Jennifer Norfolk

---

**From:** Anna Darby  
**Sent:** Monday, 6 May 2019 8:33 AM  
**To:** Jennifer Norfolk  
**Subject:** Fwd: 1669-1723 Elizabeth Drive, Badgers Creek

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

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---

**From:** Kayla Williamson <kayla\_87\_@hotmail.com>  
**Sent:** Friday, May 3, 2019 12:58:26 PM  
**To:** Anna Darby  
**Subject:** 1669-1723 Elizabeth Drive, Badgers Creek

Hi Anna

Woronora Plateau Gundangara Elders Council would like to register for consultation for the proposed EEP Stage 1 located at 1669-1723 Elizabeth Drive, Badgers Creek.

Please send all correspondence to:

11 Garnett Grove  
FLINDERS NSW 2529

Or

Kayla\_87\_@hotmail.com

Regards  
Kayla Williamson  
0414438744

## Darug Aboriginal LandCare

(Uncle Des  
Dyer)

18a Perigee Close  
Doonside  
2767NSW  
ABN 71 301 006  
047

Anna Darby  
Archaeologist  
Artefact Heritage  
Building B, Level 4,  
35 Saunders Street  
Pyrmont 2009  
NSW

Re: Elizabeth Precinct Badgerys Creek

Dear Anna,

Darug Aboriginal Land care / Uncle Des Dyer. Have no objections to the planned development.

The Darug Aboriginal Land care would like to **register** for this project and be consulted and take part in survey and test excavations. This project falls within the Darug land.

**We are Traditional Owner**, our members have lived on Darug land for most of their lives and worked in the area. We have responsibility to look after the plants, creeks and rivers on Darug land. We have been doing Cultural Heritage Assessments for over 20 year and still do today.

Our members are family and have lived in the area, we consult with them by Email and phone.

We would like to take part in any field survey and test excavations. Attend any meetings.

**We have over 20years experience and all our works have White cards**  
**Our preferred method of communication is by Email.**

**Our Site Officer Ricky Fields**  
**Mobile 0402942572.**  
**Email fields.r@outlook.com**

**For all Survey test excavation and salvage works please contact him**  
**for all work matters.**  
**please contact him**

We agree and understand you can give our contacted details to others.

The area is an important part of our culture and valued by the community as most of the people that lived there were Darug. We can provide cultural knowledge during the survey.

**Our preferred option to receive the project information is by E-mail.**

Thank you  
Kind regards  
Des Dyer. Manager.  
Darug Elder  
Email desmond4552@hotmail.com  
Mobile 0408360814

## Anna Darby

---

**From:** Ryan Johnson <murrabidgeemullangari@yahoo.com.au>  
**Sent:** Wednesday, 1 May 2019 1:47 PM  
**To:** Anna Darby  
**Subject:** Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

Hi Anna

Please register my family for the above project, we were born, work and live in the area. Our corporation has done many projects in Badgerys Creek and surrounding areas.

Kind regards

Ryan Johnson

0475565517

On 1 May 2019, at 12:41 pm, Anna Darby <[Anna.darby@artefact.net.au](mailto:Anna.darby@artefact.net.au)> wrote:

1 May 2019

Murra Bidgee Mullangari Aboriginal Corporation  
PO Box 246  
Seven Hills NSW 2147

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP)  
Aboriginal Heritage Assessment**

Dear Darleen Johnson,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site.

The Stage 1 site location is shown within Figure 1 below.

It is likely that Aboriginal objects will be impacted by the proposal and at least one application for an Aboriginal Heritage Impact Permit (AHIP) under section 90 of the National Parks and Wildlife Act 1974 will be required. Mirvac has engaged Artefact Heritage to complete an Aboriginal Cultural Heritage assessment for the project, including consultation in accordance with the Aboriginal cultural heritage consultation requirements for proponents 2010 (the consultation requirements) (DECCW 2010).

The contact details for the proponent are:



Russell Hogan  
Development Manager  
Mirvac  
Level 28, 200 George Street Sydney NSW 2000  
(02) 9080 8154  
[Russell.Hogan@mirvac.com](mailto:Russell.Hogan@mirvac.com)

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Mirvac wishes to consult with any Aboriginal persons or organisations that hold cultural knowledge relevant to determining the significance of Aboriginal objects and places in Badgerys Creek.

I would like to invite you to register an interest in the project, if you would like to be involved in the community consultation process. Please send your registration by **14 May 2019** to:

Anna Darby  
Artefact Heritage  
Building B, Level 4, 35 Saunders Street  
Pyrmont NSW 2009  
or email [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

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As part of your registration of interest, I would appreciate it if you could address the following points:

- Name and contact details of the organisation registering.
- An outline of the connection of the organisation to the Badgerys Creek Region.
- If you would like to be involved in any fieldwork, details of rates and insurances (Public Liability and Workers Compensation or equivalent).

If you require any additional information, please do not hesitate to contact me.

Yours sincerely,

<image001.png>

Anna Darby  
Heritage consultant  
Artefact Heritage

E: [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

P: 02 9518 8411

W: [www.artefact.net.au](http://www.artefact.net.au)

A: Level 4 Building B 35 Saunders Street Pyrmont NSW 2009

**Figure 1: Map of study area**

<image002.jpg>

## Jennifer Norfolk

---

**From:** Anna Darby  
**Sent:** Friday, 10 May 2019 10:24 AM  
**To:** Jennifer Norfolk  
**Subject:** Fwd: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

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---

**From:** Ralph Hampton <hamptonralph46@gmail.com>  
**Sent:** Wednesday, May 8, 2019 10:34:18 AM  
**To:** Anna Darby  
**Subject:** Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

Good morning my name is Ralph Hampton I was just wondering if I can register for the aboriginal heritage assessment at Badgerys Creek thank you have a good day

On 2 May 2019 10:50 am, "Anna Darby" <[Anna.darby@artefact.net.au](mailto:Anna.darby@artefact.net.au)> wrote:

2 May 2019

B.H Heritage Consultants

[184 Captain Cook Drive](#)

[Willmot 2770 NSW](#)

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Ralph Hampton,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at [1669-1723 Elizabeth Drive, Badgerys Creek \(Lot 5 DP860456\)](#). The development application will be for bulk earthworks across the site.

The Stage 1 site location is shown within Figure 1 below.

It is likely that Aboriginal objects will be impacted by the proposal and at least one application for an Aboriginal Heritage Impact Permit (AHIP) under section 90 of the National Parks and Wildlife Act 1974 will be required. Mirvac has engaged Artefact Heritage to complete an Aboriginal Cultural Heritage assessment for the project, including consultation in accordance with the Aboriginal cultural heritage consultation requirements for proponents 2010 (the consultation requirements) (DECCW 2010).

The contact details for the proponent are:

Russell Hogan  
Development Manager  
Mirvac  
[Level 28, 200 George Street Sydney NSW 2000](#)  
(02) 9080 8154  
[Russell.Hogan@mirvac.com](mailto:Russell.Hogan@mirvac.com)

The assessment of Aboriginal heritage will be prepared in accordance with the principles of the NPW Act 1974, the OEH 'Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales' (the OEH code of practice), the OEH 'Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW', and the consultation requirements.

Mirvac wishes to consult with any Aboriginal persons or organisations that hold cultural knowledge relevant to determining the significance of Aboriginal objects and places in Badgerys Creek.

I would like to invite you to register an interest in the project, if you would like to be involved in the community consultation process. Please send your registration by **15 May 2019** to:

Anna Darby

Artefact Heritage

[Building B, Level 4, 35 Saunders Street](#)

[Pyrmont NSW](#) 2009

or email [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

Please note that the consultation guidelines require us to provide details of the Registered Aboriginal Parties to the Office of Environment and Heritage and Deerubbin Local Aboriginal Land Council. Please let me know if you would not like your details to be provided.

As part of your registration of interest, I would appreciate it if you could address the following points:

- Name and contact details of the organisation registering.
- An outline of the connection of the organisation to the Badgerys Creek Region.
- If you would like to be involved in any fieldwork, details of rates and insurances (Public Liability and Workers Compensation or equivalent).

If you require any additional information, please do not hesitate to contact me.

Yours sincerely,



Anna Darby

Heritage consultant

Artefact Heritage

E: [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

P: 02 9518 8411

W: [www.artefact.net.au](http://www.artefact.net.au)

A: [Level 4 Building B 35 Saunders Street Pyrmont NSW](#) 2009



Figure 1: Map of study area



## Anna Darby

---

**From:** Ryan Johnson <murrabidgeemullangari@yahoo.com.au>  
**Sent:** Tuesday, 7 May 2019 3:18 PM  
**To:** Anna Darby  
**Subject:** Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

Hi Anna

Our family were born, live and work in the project area, my mother and family lived in humpies as children in the area. Our daily rate is \$950.00 per day, we have also done many aboriginal cultural heritage projects in the area and surrounding areas, I myself have been working for over 16 years on Aboriginal Cultural Heritage projects and have a lot of experience, surveying, digging, carrying buckets and sieving. I would like to be involved in all aspects of the project I.e field work, surveying etc

Kind regards

Ryan Johnson  
0475565517

On 1 May 2019, at 12:25 pm, Anna Darby <[Anna.darby@artefact.net.au](mailto:Anna.darby@artefact.net.au)> wrote:

1 May 2019

Murra Bidgee Mullangari Aboriginal Corporation  
PO Box 246  
Seven Hills NSW 2147

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP)  
Aboriginal Heritage Assessment**

Dear Darleen Johnson,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site. Further development within stage 1 may be subject to additional approval pathways.

The Stage 1 site location is shown within Figure 1 below.

It is likely that Aboriginal objects will be impacted by the proposal and at least one application for an Aboriginal Heritage Impact Permit (AHIP) under section 90 of the National Parks and Wildlife Act 1974 will be required. Mirvac has engaged Artefact Heritage to complete an Aboriginal Cultural Heritage assessment for the project, including consultation in accordance with the Aboriginal cultural heritage consultation requirements for proponents 2010 (the consultation requirements) (DECCW 2010).

The contact details for the proponent are:

Russell Hogan  
Development Manager  
Mirvac  
Level 28, 200 George Street Sydney NSW 2000  
(02) 9080 8154  
[Russell.Hogan@mirvac.com](mailto:Russell.Hogan@mirvac.com)

The assessment of Aboriginal heritage will be prepared in accordance with the principles of the NPW Act 1974, the OEH 'Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales' (the OEH code of practice), the OEH 'Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW', and the consultation requirements.

Mirvac wishes to consult with any Aboriginal persons or organisations that hold cultural knowledge relevant to determining the significance of Aboriginal objects and places in Badgerys Creek.

I would like to invite you to register an interest in the project, if you would like to be involved in the community consultation process. Please send your registration by **14 May 2019** to:

Anna Darby  
Artefact Heritage  
Building B, Level 4, 35 Saunders Street  
Pyrmont NSW 2009  
or email [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

Please note that the consultation guidelines require us to provide details of the Registered Aboriginal Parties to the Office of Environment and Heritage and Deerubbin Local Aboriginal Land Council. Please let me know if you would not like your details to be provided.

As part of your registration of interest, I would appreciate it if you could address the following points:

- Name and contact details of the organisation registering.
- An outline of the connection of the organisation to the Badgerys Creek Region.
- If you would like to be involved in any fieldwork, details of rates and insurances (Public Liability and Workers Compensation or equivalent).

If you require any additional information, please do not hesitate to contact me.

Yours sincerely,

<image001.png>

Anna Darby  
Heritage consultant  
Artefact Heritage

E: [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

P: 02 9518 8411

W: [www.artefact.net.au](http://www.artefact.net.au)

A: Level 4 Building B 35 Saunders Street Pyrmont NSW 2009

**Figure 1: Map of study area**

<image002.jpg>

## **Anna Darby**

---

**From:** Murramarang <murramarangchts@gmail.com>  
**Sent:** Monday, 13 May 2019 3:10 PM  
**To:** Anna Darby  
**Subject:** Registration of Interest in the Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment and Aboriginal Cultural Heritage Consultation Requirements.

Please register Murramarang in the proposed Elizabeth Enterprise Precinct (EEP) located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456) for Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010.

--

**Kind Regards**  
**Roxanne Smith**  
**Cultural Heritage Officer**  
**Murramarang**

This email may contain privileged information. Privilege is not waived if it has been sent to you in error, or if you are not the intended recipient. Please immediately notify me and delete the email if you have received this in error.



## **Anna Darby**

---

**From:** Biamanga <biamangachts@gmail.com>  
**Sent:** Monday, 13 May 2019 3:10 PM  
**To:** Anna Darby  
**Subject:** Registration of Interest in the Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment and Aboriginal Cultural Heritage Consultation Requirements.

Please register Biamanga in the proposed Elizabeth Enterprise Precinct (EEP) located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456) for Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010.

--

**Kind Regards**  
**Janaya Smith**  
**Chief Executive Officer**  
**Biamanga**

This email may contain privileged information. Privilege is not waived if it has been sent to you in error, or if you are not the intended recipient. Please immediately notify me and delete the email if you have received this in error.

## **Anna Darby**

---

**From:** Cullendulla <cullendullachts@gmail.com>  
**Sent:** Monday, 13 May 2019 3:10 PM  
**To:** Anna Darby  
**Subject:** Registration of Interest in the Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment and Aboriginal Cultural Heritage Consultation Requirements.

Please register Cullendulla in the proposed Elizabeth Enterprise Precinct (EEP) located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456) for Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010.

--

**Kind Regards**  
**Corey Smith**  
Cultural Heritage Officer  
Cullendulla

This email may contain privileged information. Privilege is not waived if it has been sent to you in error, or if you are not the intended recipient. Please immediately notify me and delete the email if you have received this in error.

## **Anna Darby**

---

**From:** Goobah <goobahchts@gmail.com>  
**Sent:** Monday, 13 May 2019 3:09 PM  
**To:** Anna Darby  
**Subject:** Registration of Interest in the Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment and Aboriginal Cultural Heritage Consultation Requirements.

Please register Goobah in the proposed Elizabeth Enterprise Precinct (EEP) located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456) for Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010.

--

**Regards Basil Smith**  
**Chief Executive Officer**  
**Goobah PH 0405995725**

This email may contain privileged information. Privilege is not waived if it has been sent to you in error, or if you are not the intended recipient. Please immediately notify me and delete the email if you have received this in error.

## Anna Darby

---

**From:** kerrie slater <wurrumay@hotmail.com>  
**Sent:** Friday, 10 May 2019 3:51 PM  
**To:** Anna Darby  
**Subject:** Re: EOI- The EEP Stage 1, 1669-1723 Elizabeth drive Badgery Creek

Hi Anna

Wurrumay Consultants would like to register an interest for the above project.

Experienced Site Officer & Ancestral Connection to Country.

Current Insurances

Regards

Kerry Slater

## Anna Darby

---

**From:** Vicki Slater <vicki.slater@hotmail.com>  
**Sent:** Friday, 10 May 2019 3:48 PM  
**To:** Anna Darby  
**Subject:** Re: EOI Stage 1 Dp 860456

Elizabeth Dr Badgery Creek.

Dear Anna.

Kawul Cultural Services would like to register an interest for the above project.

Experience in determining the significance of Artefacts and Aboriginal Objects n Place,

Ancestral Connection to Country & Knowledge of Country.

Current Insurances

Kind Regards

Vicki Slater



## Anna Darby

---

**From:** Shaun Carroll <Merrigarn@hotmail.com>  
**Sent:** Thursday, 2 May 2019 8:12 AM  
**To:** Anna Darby  
**Subject:** 1669-1723 Elizabeth Drive Badgerys Creek

Dear Anna

Could you please register my interest in the above project. Our family is very familiar with the area, as we didn't stay in one place for long we lived in the project area. I have also worked in badgered creek on many projects.

Kind regards  
Shaun Carroll  
0498696317

## Jennifer Norfolk

---

**From:** Anna Darby  
**Sent:** Monday, 6 May 2019 2:02 PM  
**To:** Jennifer Norfolk  
**Subject:** Fwd: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

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---

**From:** WIDESCOPE . <widescope.group@live.com>  
**Sent:** Monday, May 6, 2019 11:41:54 AM  
**To:** Anna Darby  
**Subject:** RE: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

Hi,

Please register my interest in the Aboriginal Cultural heritage assessment for the Badgerys Creek NSW

I am a recognised indigenous cultural knowledge holder. I hold knowledge relevant in determining the significance of Aboriginal objects and places. I hold a cultural connection to Badgerys Creek and surrounding areas.

My preferred Method of contact is Via Email:widescope.group@live.com  
Mob 0425230693  
Admin 0425232056

My level of involvement:

I would like to attend Community Consultation meetings and to be considered for field survey works. Thank you I look forward to assisting with the Aboriginal Cultural Heritage part of the project

Regards  
Steven Hickey

---

**From:** Anna Darby <Anna.darby@artefact.net.au>  
**Sent:** Wednesday, May 1, 2019 12:43:34 PM  
**To:** Widescope.group@live.com  
**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019  
Widescope Indigenous Group  
73 Russell Street  
Emu Plains NSW 2750

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Steven Hickey,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site.

The Stage 1 site location is shown within Figure 1 below.

It is likely that Aboriginal objects will be impacted by the proposal and at least one application for an Aboriginal Heritage Impact Permit (AHIP) under section 90 of the National Parks and Wildlife Act 1974 will be required. Mirvac has engaged Artefact Heritage to complete an Aboriginal Cultural Heritage assessment for the project, including consultation in accordance with the Aboriginal cultural heritage consultation requirements for proponents 2010 (the consultation requirements) (DECCW 2010).

The contact details for the proponent are:

Russell Hogan  
Development Manager  
Mirvac  
Level 28, 200 George Street Sydney NSW 2000  
(02) 9080 8154  
Russell.Hogan@mirvac.com

The assessment of Aboriginal heritage will be prepared in accordance with the principles of the NPW Act 1974, the OEH 'Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales' (the OEH code of practice), the OEH 'Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW', and the consultation requirements.

Mirvac wishes to consult with any Aboriginal persons or organisations that hold cultural knowledge relevant to determining the significance of Aboriginal objects and places in Badgerys Creek.

I would like to invite you to register an interest in the project, if you would like to be involved in the community consultation process. Please send your registration by **14 May 2019** to:

Anna Darby

Artefact Heritage

Building B, Level 4, 35 Saunders Street

Pymont NSW 2009

or email [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

Please note that the consultation guidelines require us to provide details of the Registered Aboriginal Parties to the Office of Environment and Heritage and Deerubbin Local Aboriginal Land Council. Please let me know if you would not like your details to be provided.

As part of your registration of interest, I would appreciate it if you could address the following points:

- Name and contact details of the organisation registering.
- An outline of the connection of the organisation to the Badgerys Creek Region.
- If you would like to be involved in any fieldwork, details of rates and insurances (Public Liability and Workers Compensation or equivalent).

If you require any additional information, please do not hesitate to contact me.

Yours sincerely,



Anna Darby  
Heritage consultant  
Artefact Heritage

E: [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

P: 02 9518 8411

W: [www.artefact.net.au](http://www.artefact.net.au)

A: Level 4 Building B 35 Saunders Street Pyrmont NSW 2009

Figure 1: Map of study area





## Jennifer Norfolk

---

**From:** Anna Darby  
**Sent:** Friday, 10 May 2019 10:25 AM  
**To:** Jennifer Norfolk  
**Subject:** Fwd: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment  
**Attachments:** Certificate of Currency Widescope 2018.pdf; Widescope Cert of Currency Workers Comp.pdf

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---

**From:** WIDESCOPE . <widescope.group@live.com>  
**Sent:** Tuesday, May 7, 2019 12:26:44 PM  
**To:** Anna Darby  
**Subject:** RE: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

Hi Anna,

Following my registration of interest I forgot to include the Key Points

- Name and contact details of the organisation registering. Steven Hickey ( Widescope Indigenous Group)  
Mob 0425230693
- An outline of the connection of the organisation to the Badgerys Creek Region. I hold a cultural connect to badgerys Creek Region. I hold Cultural knowledge of the area

If you would like to be involved in any fieldwork, Yes I would like to be considered for Fieldwork

Daily Rates: \$800.00 per 8hour day, Nil GST

\$400.00 minimum 4hours Nil GST

- details of rates and insurances (Public Liability and Workers Compensation or equivalent). Please see Insurances Attached

Regards

Steven Hickey

---

**From:** Anna Darby <Anna.darby@artefact.net.au>  
**Sent:** Wednesday, May 1, 2019 12:43:34 PM  
**To:** Widescope.group@live.com

**Subject:** Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment

1 May 2019  
Widescope Indigenous Group  
73 Russell Street  
Emu Plains NSW 2750

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Steven Hickey,  
Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site.

The Stage 1 site location is shown within Figure 1 below.

It is likely that Aboriginal objects will be impacted by the proposal and at least one application for an Aboriginal Heritage Impact Permit (AHIP) under section 90 of the National Parks and Wildlife Act 1974 will be required. Mirvac has engaged Artefact Heritage to complete an Aboriginal Cultural Heritage assessment for the project, including consultation in accordance with the Aboriginal cultural heritage consultation requirements for proponents 2010 (the consultation requirements) (DECCW 2010).

The contact details for the proponent are:

Russell Hogan  
Development Manager  
Mirvac  
Level 28, 200 George Street Sydney NSW 2000  
(02) 9080 8154  
Russell.Hogan@mirvac.com

The assessment of Aboriginal heritage will be prepared in accordance with the principles of the NPW Act 1974, the OEH 'Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales' (the OEH code of practice), the OEH 'Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW', and the consultation requirements.

Mirvac wishes to consult with any Aboriginal persons or organisations that hold cultural knowledge relevant to determining the significance of Aboriginal objects and places in Badgerys Creek.

I would like to invite you to register an interest in the project, if you would like to be involved in the community consultation process. Please send your registration by **14 May 2019** to:

Anna Darby

Artefact Heritage

Building B, Level 4, 35 Saunders Street

Pymont NSW 2009

or email [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

Please note that the consultation guidelines require us to provide details of the Registered Aboriginal Parties to the Office of Environment and Heritage and Deerubbin Local Aboriginal Land Council. Please let me know if you would not like your details to be provided.

As part of your registration of interest, I would appreciate it if you could address the following points:

- Name and contact details of the organisation registering.
- An outline of the connection of the organisation to the Badgerys Creek Region.

- If you would like to be involved in any fieldwork, details of rates and insurances (Public Liability and Workers Compensation or equivalent).

If you require any additional information, please do not hesitate to contact me.

Yours sincerely,



Anna Darby  
Heritage consultant  
Artefact Heritage

E: [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

P: 02 9518 8411

W: [www.artefact.net.au](http://www.artefact.net.au)

A: Level 4 Building B 35 Saunders Street Pyrmont NSW 2009

Figure 1: Map of study area



# YULAY CULTURAL SERVICES

ABN: 20 192 216 560

15 Rowley place, Airds NSW 2560

Phone: 0411 048 794 Email: yulayculturalservices@gmail.com

Date: 8<sup>th</sup> May 2019

Anna Darby  
Artefact Heritage  
Building B, Level 4, 35 Saunders Street  
Pyrmont NSW 2009

## **Re: Aboriginal Cultural Heritage Assessment for proposed Elizabeth Enterprise Precinct (EEP)**

Our family hold a strong connection to the Campbelltown and surrounding areas we have cultural and ancestral connection to the area where our family line comes down through the Dharawal tribe.

Yulay Cultural Services is an Aboriginal owned company and we have been working within Aboriginal Heritage Work for over 8 years throughout the Hunter and Sydney Regions in which I have already completed field work on the M12 and Western Sydney Airport and I would like to be given an opportunity to further my knowledge and skills where I have great experience identifying Aboriginal heritage values and I am aware of the impacts of any changes to the land uses on those values.

I have great pride in my culture and I acknowledge the lands that I live and work on and I pay my respects to the elders past and present and I am a active member within the Campbelltown and Blacktown Aboriginal Communities.

I have completed all the tasks as directed and meet the physical labour and all the requirements listed below

- Transects
- Science excavation
- Artefacts analysis
- Wet and dry seiving
- Monitoring
- White Card – On request
- Experience in Aboriginal Cultural Heritage in Aboriginal Archaeology
- RMS on the Hunter Expressway ( 15-18 months )
- Various Mines in the Hunter Region
- Local Sydney Basin - Western Sydney / South Western Sydney Regions
- Mt Gillard Project
- Western Sydney Airport
- RMS – M12
- Casual Sites Officer – Tharawal Aboriginal Land Council

We wish to be involved in all aspects of this project such as any upcoming Consultation Meetings, heritage identification, assessment and management and Fieldwork.



Attached are our Certificates of Currency for your records.

Our rates for field work are as followed: \$880 p/ day

If you require any further information regarding this letter please don't hesitate in contacting me or the following references.

Name: Andrew Costello  
Company: SNR Archaeologist Jacob Pty Ltd  
Heritage Pty Ltd  
Phone: 0458 325 345

Name: Vanessa Hardy  
Company: Archaeologist Virtus  
Phone: 02 6676 4354

Kind Regards

Arika Jalomaki  
Yulay Cultural Services

## Anna Darby

---

**From:** arika jalomaki <yulayculturalservices@gmail.com>  
**Sent:** Thursday, 2 May 2019 7:33 PM  
**To:** Anna Darby  
**Subject:** Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment  
**Attachments:** image001.png

Dear Anna

Yulay Cultural Services would like to register our interest in this project.

Kind Regards  
Arika Jalomaki

On Wed, 1 May 2019, 12:51 pm Anna Darby, <[Anna.darby@artefact.net.au](mailto:Anna.darby@artefact.net.au)> wrote:

1 May 2019

Yulay Cultural Services

15 Rowley Place

Airds NSW 2560

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Dear Arika Jalomaki,

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site.

The Stage 1 site location is shown within Figure 1 below.

It is likely that Aboriginal objects will be impacted by the proposal and at least one application for an Aboriginal Heritage Impact Permit (AHIP) under section 90 of the National Parks and Wildlife Act 1974 will be required. Mirvac has engaged Artefact Heritage to complete an Aboriginal Cultural Heritage assessment for the project, including consultation in accordance with the Aboriginal cultural heritage consultation requirements for proponents 2010 (the consultation requirements) (DECCW 2010).

The contact details for the proponent are:

Russell Hogan  
Development Manager  
Mirvac  
Level 28, 200 George Street Sydney NSW 2000  
(02) 9080 8154  
[Russell.Hogan@mirvac.com](mailto:Russell.Hogan@mirvac.com)

The assessment of Aboriginal heritage will be prepared in accordance with the principles of the NPW Act 1974, the OEH 'Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales' (the OEH code of practice), the OEH 'Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW', and the consultation requirements.

Mirvac wishes to consult with any Aboriginal persons or organisations that hold cultural knowledge relevant to determining the significance of Aboriginal objects and places in Badgerys Creek.

I would like to invite you to register an interest in the project, if you would like to be involved in the community consultation process. Please send your registration by **14 May 2019** to:

Anna Darby

Artefact Heritage

Building B, Level 4, 35 Saunders Street

Pymont NSW 2009

or email [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

Please note that the consultation guidelines require us to provide details of the Registered Aboriginal Parties to the Office of Environment and Heritage and Deerubbin Local Aboriginal Land Council. Please let me know if you would not like your details to be provided.

As part of your registration of interest, I would appreciate it if you could address the following points:

- Name and contact details of the organisation registering.
- An outline of the connection of the organisation to the Badgerys Creek Region.
- If you would like to be involved in any fieldwork, details of rates and insurances (Public Liability and Workers Compensation or equivalent).

If you require any additional information, please do not hesitate to contact me.

Yours sincerely,



Anna Darby

Heritage consultant

Artefact Heritage

E: [anna.darby@artefact.net.au](mailto:anna.darby@artefact.net.au)

P: 02 9518 8411

W: [www.artefact.net.au](http://www.artefact.net.au)

A: Level 4 Building B 35 Saunders Street Pyrmont NSW 2009

**Figure 1: Map of study area**





**Yurrandaali Cultural Services**

ABN: 52 618 794 088

11 Waterhouse Place

Airds NSW 2560

T: 0431 314 892

E: yurrandaali\_cs@hotmail.com

08/05/2019

Anna Darby  
Artefact Heritage  
Building B, Level 4, 35 Saunders Street  
Pyrmont NSW 2009

**Re: Aboriginal Cultural Heritage Assessment for proposed Elizabeth Enterprise Precinct (EEP)**

Our family hold a strong connection to the Campbelltown, Badgerys Creek and surrounding areas we have cultural and ancestral connection to the area where our family line comes down through the Dharawal tribe.

Yurrandaali Cultural Services wishes to be involved in all aspects of this project such as any upcoming Consultation Meetings, heritage identification, assessment and management and Fieldwork.

Attached are our Certificates of Currency for your records.  
Field Work Rates : \$880 / day

Yurrandaali Cultural Services is an Aboriginal owned company and I have been working within Aboriginal Heritage Work for over 10 years throughout the Sydney Regions.

I have completed all the tasks as directed and meet the physical labour and all the requirements listed below

- Transects
- Science excavation
- Artefacts analysis
- Wet and dry seiving
- Monitoring
- White Card – available on request
- Experience in Aboriginal Cultural Heritage in Aboriginal Archaeology
- Western Sydney Airport

I have great pride in my culture and I acknowledge the lands that I live and work on and I pay my respects to the elders past and present and I am a active member within the Aboriginal Community.

Kind Regards  
Bo Field  
Yurrandaali Cultural Services

## Section 4.1.6 Letters

## Anna Darby

---

**From:** Anna Darby  
**Sent:** Thursday, 30 May 2019 9:51 AM  
**To:** SRandall@deerubbin.org.au  
**Subject:** Section 4.1.6 - Aboriginal heritage assessment for Elizabeth Enterprise Precinct (EEP)  
Aboriginal heritage assessment

30 May 2019

Deerubbin LALC  
PO Box 40  
Penrith  
NSW 2750

Dear Steve Randall,

**Re: Section 4.1.6 - Aboriginal heritage assessment for Elizabeth Enterprise Precinct (EEP) Aboriginal heritage assessment.**

Artefact Heritage has been engaged by Mirvac to complete an Aboriginal Cultural Heritage Assessment Report (ACHAR) for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP) in advanced of proposed redevelopment works. The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456).

Mirvac wishes to consult with any Aboriginal persons or organisations that hold cultural knowledge relevant to determining the significance of Aboriginal places in the Badgerys Creek area. The purpose of the community consultation is to assist the proponent in the preparation of an ACHAR, the completion of test excavation and the application for at least one application for an Aboriginal Heritage Impact Permit (AHIP). The ACHAR will assist OEH in determination of the application.

In accordance with Section 4.1.6 of the OEH *Aboriginal Cultural Heritage Consultation Requirements for Proponents* (2010), please find below a list of Registered Stakeholders for the project.

The twenty five registered Aboriginal stakeholders include:

- |                                                  |                        |
|--------------------------------------------------|------------------------|
| • Deerubbin LALC                                 |                        |
| • Murra Bidgee Mullangari Aboriginal Corporation | Ryan Johnson           |
| • Amanda Hickey Cultural Services                | Amanda Hickey          |
| • Butacarbin Aboriginal Corporation              | Jennifer Beale         |
| • Didge Ngunawal Clan                            | Lilly Carrol/Paul Boyd |
| • Darug Aboriginal Land Care                     | Des Dyer               |
| • Merrigarn                                      | Shaun Carrol           |
| • Yulay Cultural Sevices                         | Arika Jalomaki         |
| • Woronora Plateau Gundangara Elders Council     | Kayla Williamson       |
| • Darug Custodian Aboriginal Corporation         | Justine Coplin         |
| • A1 Indigenous Services                         | Carolyn Hickey         |
| • Darug Land Observations                        | Anna Workman           |
| • Widescope Indigenous Group                     | Steven Hickey          |
| • Barking Owl Aboriginal Corporation             | Jody Kulakowski        |
| • B.H Heritage Consultants                       | Ralph Hampton          |

- Cubbitch Barta Native Title Claimants Aboriginal Corporation
- Barraby Cultural Services
- Yurrandaali Cultural Services
- Kawul Cultural Services
- Wurrumay Consultancy
- Goobah Developments
- Biamanga
- Cullendulla
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- Darug Aboriginal Cultural Heritage Assessments

Lee Field  
Bo Field  
Vicky Slater  
Kerry Slater  
Basil Smith  
Janaya Smith  
Corey Smith  
Roxanne Smith  
Celestine Everighnam

Glenda Chalker

Also included is a copy of the published Step 4.1.3 advertisement and letters providing an invitation to register interest in the project. The advertisement was published in the Koori Mail and Liverpool Leader on 24 April 2019.

If you would like to discuss any of these details, or have any comments, please do not hesitate to contact me.

Yours sincerely,



Anna Darby

Heritage Consultant  
Artefact Heritage

Anna.darby@artefact.net.au  
02 9518 8411



# Notices

## General Notices

### **Elizabeth Enterprise Precinct (EEP), Aboriginal Cultural Heritage Assessment Invitation to Register an Interest**

On behalf of Mirvac, Artefact Heritage is undertaking an Aboriginal cultural heritage assessment of Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP) in advance of the proposed bulk earthworks. The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP 860456). The proponent's contact details are:

Russell Hogan  
Development Manager  
Mircvac  
Level 28, 200 George Street Sydney NSW 2000  
(02) 9080 8154  
Russell.Hogan@mircvac.com

We are inviting registrations of interest in the project from Aboriginal groups and individuals who hold cultural knowledge relevant to determining the significance of Aboriginal objects and/or places in the locality. The purpose of the community consultation is to assist the proponent in the preparation of an application for an Aboriginal Heritage Impact Permit for the proposal. The consultation will also assist the Office of Environment and Heritage in their consideration and determination of the application.

Consultation will also be used to inform on assessment required for further development within stage 1 of the EEP which may be subject to additional development consent processes. Additional consent processes may include State Significant Development under the Environmental Planning and Assessment Act 1979.

Please note that the consultation guidelines require us to provide details of the Registered Aboriginal Parties to the Office of Environment and Heritage and Deerubbin Local Aboriginal Land Council. In your response could you please advise if you would not like your details to be provided.

Please register your interest in the project by 10 May 2019 by contacting:

Anna Darby, Artefact Heritage  
Level 4, Building B, 35 Saunders Street, Pyrmont NSW 2009

02 9518 8411  
anna.darby@artefact.net.au

2 May 2019

**Re: Identification of Interested Aboriginal Parties - Elizabeth Enterprise Precinct (EEP) Aboriginal Heritage Assessment**

Mirvac propose to submit a designated development application for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP). The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456). The development application will be for bulk earthworks across the site.

The Stage 1 site location is shown within Figure 1 below.

It is likely that Aboriginal objects will be impacted by the proposal and at least one application for an Aboriginal Heritage Impact Permit (AHIP) under section 90 of the National Parks and Wildlife Act 1974 will be required. Mirvac has engaged Artefact Heritage to complete an Aboriginal Cultural Heritage assessment for the project, including consultation in accordance with the Aboriginal cultural heritage consultation requirements for proponents 2010 (the consultation requirements) (DECCW 2010).

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As part of your registration of interest, I would appreciate it if you could address the following points:

- Name and contact details of the organisation registering.
- An outline of the connection of the organisation to the Badgerys Creek Region.
- If you would like to be involved in any fieldwork, details of rates and insurances (Public Liability and Workers Compensation or equivalent).

If you require any additional information, please do not hesitate to contact me.

Yours sincerely,



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Heritage consultant  
Artefact Heritage

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P: 02 9518 8411

W: [www.artefact.net.au](http://www.artefact.net.au)

A: Level 4 Building B 35 Saunders Street Pyrmont NSW 2009

Figure 1: Map of study area



## Anna Darby

---

**From:** Anna Darby  
**Sent:** Thursday, 30 May 2019 9:51 AM  
**To:** gs.ach@environment.nsw.gov.au  
**Subject:** Section 4.1.6 - Aboriginal heritage assessment for Elizabeth Enterprise Precinct (EEP)  
Aboriginal heritage assessment

30 May 2019

Office of Environment and Heritage  
Environment Protection and Regulation  
PO Box 644  
Paramatta NSW 2124

Dear Sir or Madam,

**Re: Section 4.1.6 - Aboriginal heritage assessment for Elizabeth Enterprise Precinct (EEP) Aboriginal heritage assessment.**

Artefact Heritage has been engaged by Mirvac to complete an Aboriginal Cultural Heritage Assessment Report (ACHAR) for Stage 1 of the proposed Elizabeth Enterprise Precinct (EEP) in advanced of proposed redevelopment works. The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456).

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Bo Field  
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Heritage Consultant  
Artefact Heritage

Anna.darby@artefact.net.au  
02 9518 8411

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anna.darby@artefact.net.au

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Artefact Heritage

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P: 02 9518 8411

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A: Level 4 Building B 35 Saunders Street Pyrmont NSW 2009

Figure 1: Map of study area





## Review of Test Excavation Methodology

## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Monday, 4 November 2019 1:30 PM  
**To:** srandall@deerubbin.org.au  
**Subject:** Elizabeth Enterprise Precinct - Aboriginal test excavation methodology

Steve Randall

Deerubbin Local Aboriginal Land Council

Dear Steve Randall,

**Re: Elizabeth Enterprise Precinct (EEP) – Aboriginal test excavation methodology**

Thank you for registering as a stakeholder for the Elizabeth Enterprise Precinct Project, located on Elizabeth Drive, Badgerys Creek.

Preliminary investigation of the project area has been undertaken with an Archaeological Survey Report (ASR) for the project area completed. The ASR recommended completion of test excavation across several areas of potential archaeological deposit identified during survey.

Please find attached link to the draft test excavation methodology for your review,

Test Excavation Methodology: <https://artefact.box.com/s/cuvarz7migvbkwcwechk3en5kxm9fpvm9>

If you have any comments on the methodology, we request that they are provided by **2 December 2019**.

Cheers,

Alyce Haast  
Artefact Heritage  
Senior Heritage Consultant  
[alyce.haast@artefact.net.au](mailto:alyce.haast@artefact.net.au)  
9518 8411  
Level 4, Building B 35 Saunders Street,  
Pyrmont 2009

## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Monday, 4 November 2019 1:30 PM  
**To:** murramarangchts@gmail.com  
**Subject:** Elizabeth Enterprise Precinct - Aboriginal test excavation methodology

Roxanne Smith  
Murramarang

Dear Roxanne Smith,

**Re: Elizabeth Enterprise Precinct (EEP) – Aboriginal test excavation methodology**

Thank you for registering as a stakeholder for the Elizabeth Enterprise Precinct Project, located on Elizabeth Drive, Badgerys Creek.

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Senior Heritage Consultant  
[alyce.haast@artefact.net.au](mailto:alyce.haast@artefact.net.au)  
9518 8411  
Level 4, Building B 35 Saunders Street,  
Pyrmont 2009

## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Monday, 4 November 2019 1:30 PM  
**To:** cullendullachts@gmail.com  
**Subject:** Elizabeth Enterprise Precinct - Aboriginal test excavation methodology

Corey Smith

Cullendulla

Dear Corey Smith,

**Re: Elizabeth Enterprise Precinct (EEP) – Aboriginal test excavation methodology**

Thank you for registering as a stakeholder for the Elizabeth Enterprise Precinct Project, located on Elizabeth Drive, Badgerys Creek.

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Senior Heritage Consultant  
[alyce.haast@artefact.net.au](mailto:alyce.haast@artefact.net.au)  
9518 8411  
Level 4, Building B 35 Saunders Street,  
Pyrmont 2009

## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Monday, 4 November 2019 1:30 PM  
**To:** biamangachts@gmail.com  
**Subject:** Elizabeth Enterprise Precinct - Aboriginal test excavation methodology

Janaya Smith

Biamanga

Dear Janaya Smith,

**Re: Elizabeth Enterprise Precinct (EEP) – Aboriginal test excavation methodology**

Thank you for registering as a stakeholder for the Elizabeth Enterprise Precinct Project, located on Elizabeth Drive, Badgerys Creek.

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Pyrmont 2009



## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Monday, 4 November 2019 1:30 PM  
**To:** 'goobahchts@gmail.com'  
**Subject:** Elizabeth Enterprise Precinct - Aboriginal test excavation methodology

Basil Smith

Goobah Developments

Dear Basil Smith,

**Re: Elizabeth Enterprise Precinct (EEP) – Aboriginal test excavation methodology**

Thank you for registering as a stakeholder for the Elizabeth Enterprise Precinct Project, located on Elizabeth Drive, Badgerys Creek.

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9518 8411  
Level 4, Building B 35 Saunders Street,  
Pyrmont 2009

## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Monday, 4 November 2019 1:30 PM  
**To:** 'wurrumay@hotmail.com'  
**Subject:** Elizabeth Enterprise Precinct - Aboriginal test excavation methodology

Kerry Slater

Wurrumay Consultancy

Dear Kerry Slater,

**Re: Elizabeth Enterprise Precinct (EEP) – Aboriginal test excavation methodology**

Thank you for registering as a stakeholder for the Elizabeth Enterprise Precinct Project, located on Elizabeth Drive, Badgerys Creek.

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9518 8411  
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Pyrmont 2009

## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Monday, 4 November 2019 1:30 PM  
**To:** 'vicki.slater@hotmail.com'  
**Subject:** Elizabeth Enterprise Precinct - Aboriginal test excavation methodology

Vicky Slater

Kawul Cultural Services

Dear Vicky Slater,

**Re: Elizabeth Enterprise Precinct (EEP) – Aboriginal test excavation methodology**

Thank you for registering as a stakeholder for the Elizabeth Enterprise Precinct Project, located on Elizabeth Drive, Badgerys Creek.

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## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Monday, 4 November 2019 1:30 PM  
**To:** 'yurrandaali\_cs@hotmail.com'  
**Subject:** Elizabeth Enterprise Precinct - Aboriginal test excavation methodology

Bo Field

Yurrandaali Cultural Services

Dear Bo Field,

**Re: Elizabeth Enterprise Precinct (EEP) – Aboriginal test excavation methodology**

Thank you for registering as a stakeholder for the Elizabeth Enterprise Precinct Project, located on Elizabeth Drive, Badgerys Creek.

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**From:** Alyce Haast  
**Sent:** Monday, 4 November 2019 1:30 PM  
**To:** 'barrabyculturalservices@gmail.com'  
**Subject:** Elizabeth Enterprise Precinct - Aboriginal test excavation methodology

Lee Field

Barraby Cultural Services

Dear Lee Field,

**Re: Elizabeth Enterprise Precinct (EEP) – Aboriginal test excavation methodology**

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## Alyce Haast

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**From:** Alyce Haast  
**Sent:** Monday, 4 November 2019 1:30 PM  
**To:** 'kgchalker@bigpond.com'  
**Subject:** Elizabeth Enterprise Precinct - Aboriginal test excavation methodology

Glenda Chalker

Cubbitch Barta Native Title Claimants

Dear Glenda Chalker,

**Re: Elizabeth Enterprise Precinct (EEP) – Aboriginal test excavation methodology**

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**From:** Alyce Haast  
**Sent:** Monday, 4 November 2019 1:30 PM  
**To:** 'hamptonralph46@gmail.com'  
**Subject:** Elizabeth Enterprise Precinct - Aboriginal test excavation methodology

Ralph Hampton  
B.H Heritage Consultants

Dear Ralph Hampton,

**Re: Elizabeth Enterprise Precinct (EEP) – Aboriginal test excavation methodology**

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**From:** Alyce Haast  
**Sent:** Monday, 4 November 2019 1:30 PM  
**To:** 'barkingowlcorp@gmail.com'  
**Subject:** Elizabeth Enterprise Precinct - Aboriginal test excavation methodology

Jody Kulakowski

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**Re: Elizabeth Enterprise Precinct (EEP) – Aboriginal test excavation methodology**

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Preliminary investigation of the project area has been undertaken with an Archaeological Survey Report (ASR) for the project area completed. The ASR recommended completion of test excavation across several areas of potential archaeological deposit identified during survey.

Please find attached link to the draft test excavation methodology for your review,

Test Excavation Methodology: <https://artefact.box.com/s/cuvarz7migvbkwcwechk3en5kxm9fpvm9>

If you have any comments on the methodology, we request that they are provided by **2 December 2019**.

Cheers,

Alyce Haast  
Artefact Heritage  
Senior Heritage Consultant  
[alyce.haast@artefact.net.au](mailto:alyce.haast@artefact.net.au)  
9518 8411  
Level 4, Building B 35 Saunders Street,  
Pyrmont 2009

## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Monday, 4 November 2019 1:30 PM  
**To:** 'daruglandobservations@gmail.com'  
**Subject:** Elizabeth Enterprise Precinct - Aboriginal test excavation methodology

Anna Ohara

Darug Land Observations

Dear Anna Ohara,

**Re: Elizabeth Enterprise Precinct (EEP) – Aboriginal test excavation methodology**

Thank you for registering as a stakeholder for the Elizabeth Enterprise Precinct Project, located on Elizabeth Drive, Badgerys Creek.

Preliminary investigation of the project area has been undertaken with an Archaeological Survey Report (ASR) for the project area completed. The ASR recommended completion of test excavation across several areas of potential archaeological deposit identified during survey.

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Pyrmont 2009

## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Monday, 4 November 2019 1:30 PM  
**To:** 'Widescope.group@live.com'  
**Subject:** Elizabeth Enterprise Precinct - Aboriginal test excavation methodology

Steven Hickey  
Widescope Indigenous Group

Dear Steven Hickey,

**Re: Elizabeth Enterprise Precinct (EEP) – Aboriginal test excavation methodology**

Thank you for registering as a stakeholder for the Elizabeth Enterprise Precinct Project, located on Elizabeth Drive, Badgerys Creek.

Preliminary investigation of the project area has been undertaken with an Archaeological Survey Report (ASR) for the project area completed. The ASR recommended completion of test excavation across several areas of potential archaeological deposit identified during survey.

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Pyrmont 2009



## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Monday, 4 November 2019 1:30 PM  
**To:** 'cazadirect@live.com'  
**Subject:** Elizabeth Enterprise Precinct - Aboriginal test excavation methodology

Carolyn Hickey  
A1 Indigenous Services

Dear Carolyn Hickey,

**Re: Elizabeth Enterprise Precinct (EEP) – Aboriginal test excavation methodology**

Thank you for registering as a stakeholder for the Elizabeth Enterprise Precinct Project, located on Elizabeth Drive, Badgerys Creek.

Preliminary investigation of the project area has been undertaken with an Archaeological Survey Report (ASR) for the project area completed. The ASR recommended completion of test excavation across several areas of potential archaeological deposit identified during survey.

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9518 8411  
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Pyrmont 2009

## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Monday, 4 November 2019 1:30 PM  
**To:** justinecoplin@optusnet.com.au  
**Subject:** Elizabeth Enterprise Precinct - Aboriginal test excavation methodology

Justine Coplin

Darug Custodian Aboriginal Corporation

Dear Justine Coplin,

**Re: Elizabeth Enterprise Precinct (EEP) – Aboriginal test excavation methodology**

Thank you for registering as a stakeholder for the Elizabeth Enterprise Precinct Project, located on Elizabeth Drive, Badgerys Creek.

Preliminary investigation of the project area has been undertaken with an Archaeological Survey Report (ASR) for the project area completed. The ASR recommended completion of test excavation across several areas of potential archaeological deposit identified during survey.

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## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Monday, 4 November 2019 1:30 PM  
**To:** Kayla\_87\_@hotmail.com  
**Subject:** Elizabeth Enterprise Precinct - Aboriginal test excavation methodology

Kayla Williamson

Woronora Plateau Gundangara Elders Council

Dear Kayla Williamson,

**Re: Elizabeth Enterprise Precinct (EEP) – Aboriginal test excavation methodology**

Thank you for registering as a stakeholder for the Elizabeth Enterprise Precinct Project, located on Elizabeth Drive, Badgerys Creek.

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Pyrmont 2009

## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Monday, 4 November 2019 1:30 PM  
**To:** yulayculturalservices@gmail.com  
**Subject:** Elizabeth Enterprise Precinct - Aboriginal test excavation methodology

Arika Jalomaki  
Yulay Cultural Services

Dear Arika Jalomaki,

**Re: Elizabeth Enterprise Precinct (EEP) – Aboriginal test excavation methodology**

Thank you for registering as a stakeholder for the Elizabeth Enterprise Precinct Project, located on Elizabeth Drive, Badgerys Creek.

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Pyrmont 2009

## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Monday, 4 November 2019 1:30 PM  
**To:** Merrigarn@hotmail.com  
**Subject:** Elizabeth Enterprise Precinct - Aboriginal test excavation methodology

Shaun Carroll

Merrigarn

Dear Shaun Carroll,

**Re: Elizabeth Enterprise Precinct (EEP) – Aboriginal test excavation methodology**

Thank you for registering as a stakeholder for the Elizabeth Enterprise Precinct Project, located on Elizabeth Drive, Badgerys Creek.

Preliminary investigation of the project area has been undertaken with an Archaeological Survey Report (ASR) for the project area completed. The ASR recommended completion of test excavation across several areas of potential archaeological deposit identified during survey.

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Pyrmont 2009



## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Monday, 4 November 2019 1:30 PM  
**To:** desmond4552@hotmail.com  
**Subject:** Elizabeth Enterprise Precinct - Aboriginal test excavation methodology

Des Dyer  
Darug Aboriginal Land Care

Dear Des Dyer,

**Re: Elizabeth Enterprise Precinct (EEP) – Aboriginal test excavation methodology**

Thank you for registering as a stakeholder for the Elizabeth Enterprise Precinct Project, located on Elizabeth Drive, Badgerys Creek.

Preliminary investigation of the project area has been undertaken with an Archaeological Survey Report (ASR) for the project area completed. The ASR recommended completion of test excavation across several areas of potential archaeological deposit identified during survey.

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Pyrmont 2009

## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Monday, 4 November 2019 1:30 PM  
**To:** didgengunawalclan@yahoo.com.au  
**Subject:** Elizabeth Enterprise Precinct - Aboriginal test excavation methodology

Paul Boyd and Lillie Carrol

Didge Ngunawal Clan

Dear Paul Boyd and Lillie Carrol,

**Re: Elizabeth Enterprise Precinct (EEP) – Aboriginal test excavation methodology**

Thank you for registering as a stakeholder for the Elizabeth Enterprise Precinct Project, located on Elizabeth Drive, Badgerys Creek.

Preliminary investigation of the project area has been undertaken with an Archaeological Survey Report (ASR) for the project area completed. The ASR recommended completion of test excavation across several areas of potential archaeological deposit identified during survey.

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Pyrmont 2009

## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Monday, 4 November 2019 1:30 PM  
**To:** koori@ozemail.com.au  
**Subject:** Elizabeth Enterprise Precinct - Aboriginal test excavation methodology

Jennifer Beale

Butucarbin Aboriginal Corporation

Dear Jennifer Beale,

**Re: Elizabeth Enterprise Precinct (EEP) – Aboriginal test excavation methodology**

Thank you for registering as a stakeholder for the Elizabeth Enterprise Precinct Project, located on Elizabeth Drive, Badgerys Creek.

Preliminary investigation of the project area has been undertaken with an Archaeological Survey Report (ASR) for the project area completed. The ASR recommended completion of test excavation across several areas of potential archaeological deposit identified during survey.

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## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Monday, 4 November 2019 1:30 PM  
**To:** amandahickey@live.com.au  
**Subject:** Elizabeth Enterprise Precinct - Aboriginal test excavation methodology

Amanda Hickey

Amanda Hickey Cultural Services

Dear Amanda Hickey,

**Re: Elizabeth Enterprise Precinct (EEP) – Aboriginal test excavation methodology**

Thank you for registering as a stakeholder for the Elizabeth Enterprise Precinct Project, located on Elizabeth Drive, Badgerys Creek.

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Pyrmont 2009

## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Monday, 4 November 2019 1:30 PM  
**To:** murrabidgeemullangari@yahoo.com.au  
**Subject:** Elizabeth Enterprise Precinct - Aboriginal test excavation methodology

Ryan Johnson

Murra Bidgee Mullangari Aboriginal Corporation

Dear Ryan Johnson,

**Re: Elizabeth Enterprise Precinct (EEP) – Aboriginal test excavation methodology**

Thank you for registering as a stakeholder for the Elizabeth Enterprise Precinct Project, located on Elizabeth Drive, Badgerys Creek.

Preliminary investigation of the project area has been undertaken with an Archaeological Survey Report (ASR) for the project area completed. The ASR recommended completion of test excavation across several areas of potential archaeological deposit identified during survey.

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9518 8411  
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Pyrmont 2009





4 November 2019

Glenda Chalker  
Cubbitch Barta Native Title Claimants

Dear Glenda Chalker,

**Re: Elizabeth Enterprise Precinct (EEP) – Aboriginal test excavation methodology**

Thank you for registering as a stakeholder for the Elizabeth Enterprise Precinct Project, located on Elizabeth Drive, Badgerys Creek.

Preliminary investigation of the project area has been undertaken with an Archaeological Survey Report (ASR) for the project area completed. The ASR recommended completion of test excavation across several areas of potential archaeological deposit identified during survey.

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alyce.haast@artefact.net.au  
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Pyrmont 2009





4 November 2019

Gordon Morton  
Darug Aboriginal Cultural Heritage Assessments

Dear Gordon Morton,

**Re: Elizabeth Enterprise Precinct (EEP) – Aboriginal test excavation methodology**

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## Review of ACHAR Methodology

## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Friday, 8 November 2019 3:32 PM  
**To:** srandall@deerubbin.org.au  
**Subject:** Elizabeth Precinct: ACHAR assessment methodology

8 November 2019

Steve Randall  
Deerubbin Local Aboriginal Land Council

Dear Steve Randall,

### **Re: Elizabeth Enterprise Precinct (EEP) Stage 1: Proposed ACHAR Methodology**

Thank you for registering as a stakeholder for the proposed development of Stage 1 of the Elizabeth Enterprise Precinct (EEP). I am looking forward to working with you on this project. Included below are details of the project, and the proposed assessment methodology for your review.

#### **1.1 Proposed Development**

Mirvac Projects Pty Ltd (Mirvac) (the proponent) propose to submit a designated development application for Stage 1 of the proposed EEP. The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456) (Figure 1).

This proposal seeks approval for a Waste Disposal Facility at 1669 – 1732 Elizabeth Drive, Badgerys Creek, for the disposal of clean waste spoil material resulting from the construction of critical State Significant Infrastructure and building projects.

#### **1.2 Background**

Mirvac Projects Pty Ltd have requested the Planning Secretary's Environmental Assessment Requirements (SEARs) for the preparation of an Environmental Impact Statement (EIS) for the proposed development. As a designated development, the proponent is seeking approval for the proposed works through a Development Application (DA) to Penrith City Council.

SEARs 1295 was issued for the project on 14 February 2019 which specify that an Aboriginal Cultural Heritage Assessment Report (ACHAR) be prepared in accordance with the relevant OEH guidelines and regulations for inclusion in the Environmental Impact Statement (EIS).

#### **1.3 Proposed Assessment Methodology**

The ACHAR will be completed in accordance with the relevant guidelines:

- *Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW*
- *Aboriginal Cultural Heritage Consultation Requirements for Proponents*
- *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales*

As part of the ACHAR comprehensive consultation is being undertaken in accordance with Section 80C of the *National Parks and Wildlife Act 2009*. The initial stages of the consultation process have been completed, and a list of Registered Aboriginal Parties (RAPs) has been compiled. The present letter provides the RAPs with project information and the proposed assessment methodology for review.

An Archaeological Survey Report (ASR) has been completed for the study area. The objectives of ASR were to:

- Assess the Aboriginal cultural heritage values of the study area in accordance with the Code of Practice
- Identify Aboriginal archaeological and cultural heritage values that may be impacted by the proposed works
- Identify any further investigations, and mitigation and management measures that may be required, should the project proceed.

The ASR identified four Aboriginal sites and three areas of archaeological potential within the study area. It was recommended that archaeological test excavation be conducted within those portions of Elizabeth Precinct PAD01, Elizabeth Precinct PAD02 that would be subject to impact associated with the proposed waste facility development application.

Archaeological test excavation will be undertaken in accordance with requirements 14-17 of the Code of Practice. The proposed test excavation methodology has been prepared separately and was recently provided to stakeholders. Test excavation will be limited to areas of potential which would be subject to impacts as part of the proposed works of the Waster Management Facility development application and subsequently Elizabeth Precinct PAD03 will not be subject to test excavation as part of the current assessment.

The test excavation will be undertaken by archaeologists in partnership with representatives of the RAPs. Due to the number of RAPs, it may not be possible to involve all RAPs in the test excavation program.

Following test excavation an ACHAR report will be completed which will incorporate information from the ASR and archaeological test excavation reporting. These reports will also be included within the ACHAR as an appendix. The ACHAR will include:

- A description of the project and the extent of the study area
- An archaeological significance assessment of the study area
- A description of the statutory requirements for the protection of Aboriginal heritage
- An impact assessment for recorded Aboriginal sites and areas of archaeological potential
- Provision of measures to avoid, minimise, and if necessary, offset the predicted impacts on Aboriginal heritage values.

The ACHAR will also assess the Aboriginal heritage significance of the study area, based on comments received from the RAPs and the results of the ASR and test excavation. The potential impact of the proposed development on this significance would be assessed, and management recommendations developed accordingly.

A draft copy of the ACHAR will be sent out for your review, prior to finalisation of the document.

If you would like to comment on the Aboriginal cultural heritage values of the study area or the proposed methodology, please provide your response by **9 December 2019**. Please address your response to me at:

Alyce Haast  
Artefact Heritage  
Level 4, Building B, 35 Saunders Street  
Pyrmont NSW 2009

Or via email: [alyce.haast@artefact.net.au](mailto:alyce.haast@artefact.net.au)

In your response, please consider the following points:

- Do you know of any objects or places of value to Aboriginal people in the study area or locality?

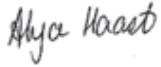


- Are there any protocols for managing cultural information that you would like incorporated into the assessment methodology?
- Are there any access requirements or restrictions that should be applied to the information you are providing?

Please also note that consultation will not necessarily involve paid engagement, as this is not a requirement of the consultation guidelines issued by the Department of Planning, Industry and Environment.

Thank you very much for your involvement in the project. If you require any additional information, please do not hesitate to contact me.

Kind Regards,



Alyce Haast  
Senior Heritage Consultant  
Artefact Heritage

alyce.haast@artefact.net.au  
02 9518 8411

**Figure 1: Map of study area**



## Study Area

19024 Elizabeth Drive Enterprise Precinct

LGA: Penrith

Scale: 1:7500  
Size: A4  
Date: 22-03-2019



## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Friday, 8 November 2019 3:32 PM  
**To:** 'murramarangchts@gmail.com'  
**Subject:** Elizabeth Precinct: ACHAR assessment methodology

8 November 2019

Roxanne Smith  
Murramarang

Dear Roxanne Smith,

### **Re: Elizabeth Enterprise Precinct (EEP) Stage 1: Proposed ACHAR Methodology**

Thank you for registering as a stakeholder for the proposed development of Stage 1 of the Elizabeth Enterprise Precinct (EEP). I am looking forward to working with you on this project. Included below are details of the project, and the proposed assessment methodology for your review.

#### **1.1 Proposed Development**

Mirvac Projects Pty Ltd (Mirvac) (the proponent) propose to submit a designated development application for Stage 1 of the proposed EEP. The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456) (Figure 1).

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SEARs 1295 was issued for the project on 14 February 2019 which specify that an Aboriginal Cultural Heritage Assessment Report (ACHAR) be prepared in accordance with the relevant OEH guidelines and regulations for inclusion in the Environmental Impact Statement (EIS).

#### **1.3 Proposed Assessment Methodology**

The ACHAR will be completed in accordance with the relevant guidelines:

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- *Aboriginal Cultural Heritage Consultation Requirements for Proponents*
- *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales*

As part of the ACHAR comprehensive consultation is being undertaken in accordance with Section 80C of the *National Parks and Wildlife Act 2009*. The initial stages of the consultation process have been completed, and a list of Registered Aboriginal Parties (RAPs) has been compiled. The present letter provides the RAPs with project information and the proposed assessment methodology for review.

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The test excavation will be undertaken by archaeologists in partnership with representatives of the RAPs. Due to the number of RAPs, it may not be possible to involve all RAPs in the test excavation program.

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A draft copy of the ACHAR will be sent out for your review, prior to finalisation of the document.

If you would like to comment on the Aboriginal cultural heritage values of the study area or the proposed methodology, please provide your response by **9 December 2019**. Please address your response to me at:

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Pyrmont NSW 2009

Or via email: [alyce.haast@artefact.net.au](mailto:alyce.haast@artefact.net.au)

In your response, please consider the following points:

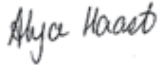
- Do you know of any objects or places of value to Aboriginal people in the study area or locality?

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02 9518 8411

**Figure 1: Map of study area**





## Study Area

19024 Elizabeth Drive Enterprise Precinct

LGA: Penrith

Scale: 1:7500  
Size: A4  
Date: 22-03-2019



## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Friday, 8 November 2019 3:32 PM  
**To:** 'cullendullachts@gmail.com'  
**Subject:** Elizabeth Precinct: ACHAR assessment methodology

8 November 2019

Corey Smith  
Cullendulla

Dear Corey Smith,

### **Re: Elizabeth Enterprise Precinct (EEP) Stage 1: Proposed ACHAR Methodology**

Thank you for registering as a stakeholder for the proposed development of Stage 1 of the Elizabeth Enterprise Precinct (EEP). I am looking forward to working with you on this project. Included below are details of the project, and the proposed assessment methodology for your review.

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Pyrmont NSW 2009

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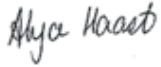
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Kind Regards,



Alyce Haast  
Senior Heritage Consultant  
Artefact Heritage

alyce.haast@artefact.net.au  
02 9518 8411

**Figure 1: Map of study area**





## Study Area

19024 Elizabeth Drive Enterprise Precinct

LGA: Penrith

Scale: 1:7500  
Size: A4  
Date: 22-03-2019





## Alyce Haast

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**From:** Alyce Haast  
**Sent:** Friday, 8 November 2019 3:32 PM  
**To:** 'biamangachts@gmail.com'  
**Subject:** Elizabeth Precinct: ACHAR assessment methodology

8 November 2019

Janaya Smith  
Biamanga

Dear Janaya Smith,

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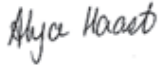
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02 9518 8411

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LGA: Penrith

Scale: 1:7500  
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## Alyce Haast

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**From:** Alyce Haast  
**Sent:** Friday, 8 November 2019 3:32 PM  
**To:** 'goobahchts@gmail.com'  
**Subject:** Elizabeth Precinct: ACHAR assessment methodology

8 November 2019

Basil Smith  
Goobah Developments

Dear Basil Smith,

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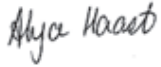
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## Alyce Haast

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**From:** Alyce Haast  
**Sent:** Friday, 8 November 2019 3:32 PM  
**To:** 'wurrumay@hotmail.com'  
**Subject:** Elizabeth Precinct: ACHAR assessment methodology

8 November 2019

Kerry Slater  
Wurrumay Consultancy

Dear Kerry Slater,

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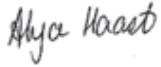


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Size: A4  
Date: 22-03-2019



## Alyce Haast

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**From:** Alyce Haast  
**Sent:** Friday, 8 November 2019 3:32 PM  
**To:** 'vicki.slater@hotmail.com'  
**Subject:** Elizabeth Precinct: ACHAR assessment methodology

8 November 2019

Vicky Slater  
Kawul Cultural Services

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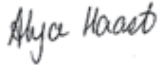
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## Alyce Haast

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**From:** Alyce Haast  
**Sent:** Friday, 8 November 2019 3:32 PM  
**To:** yurrandaali\_cs@hotmail.com  
**Subject:** Elizabeth Precinct: ACHAR assessment methodology

8 November 2019

Bo Field  
Yurrandaali Cultural Services

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Artefact Heritage  
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Pyrmont NSW 2009

Or via email: [alyce.haast@artefact.net.au](mailto:alyce.haast@artefact.net.au)

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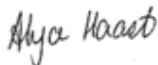
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alyce.haast@artefact.net.au  
02 9518 8411

**Figure 1: Map of study area**





## Study Area

19024 Elizabeth Drive Enterprise Precinct

LGA: Penrith

Scale: 1:7500  
Size: A4  
Date: 22-03-2019





## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Friday, 8 November 2019 3:32 PM  
**To:** barrabyculturalservices@gmail.com  
**Subject:** Elizabeth Precinct: ACHAR assessment methodology

8 November 2019

Lee Field  
Barraby Cultural Services

Dear Lee Field,

### **Re: Elizabeth Enterprise Precinct (EEP) Stage 1: Proposed ACHAR Methodology**

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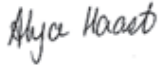
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Artefact Heritage

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02 9518 8411

**Figure 1: Map of study area**



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LGA: Penrith

Scale: 1:7500  
Size: A4  
Date: 22-03-2019



## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Friday, 8 November 2019 3:32 PM  
**To:** kgchalker@bigpond.com  
**Subject:** Elizabeth Precinct: ACHAR assessment methodology

8 November 2019

Glenda Chalker  
Cubbitch Barta Native Title Claimants

Dear Glenda Chalker,

### **Re: Elizabeth Enterprise Precinct (EEP) Stage 1: Proposed ACHAR Methodology**

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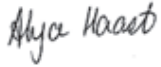
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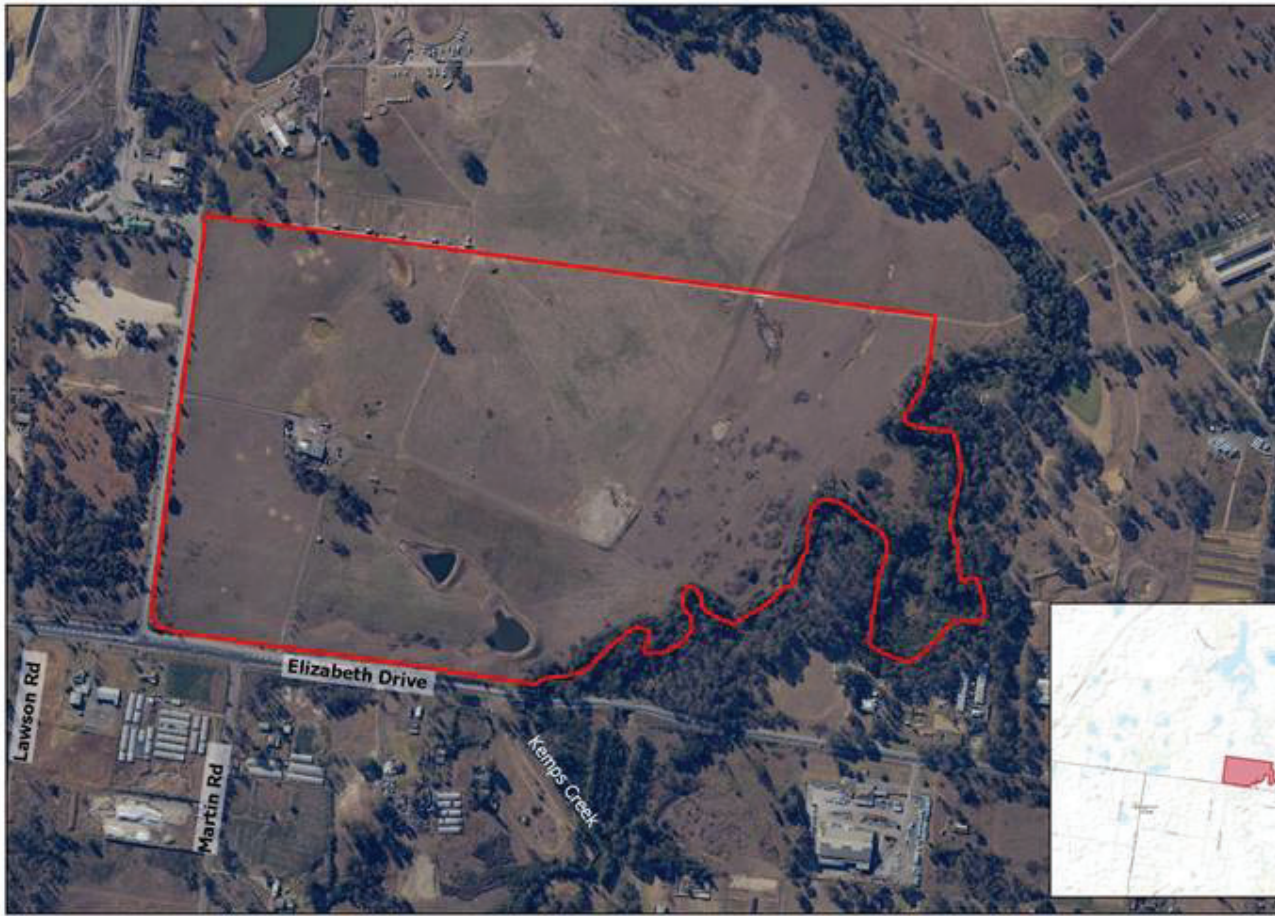
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**Figure 1: Map of study area**



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LGA: Penrith

Scale: 1:7500  
Size: A4  
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## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Friday, 8 November 2019 3:32 PM  
**To:** hamptonralph46@gmail.com  
**Subject:** Elizabeth Precinct: ACHAR assessment methodology

8 November 2019

Ralph Hampton  
B.H Heritage Consultants

Dear Ralph Hampton,

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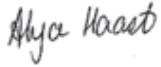


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Scale: 1:7500  
Size: A4  
Date: 22-03-2019



## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Friday, 8 November 2019 3:32 PM  
**To:** barkingowlcorp@gmail.com  
**Subject:** Elizabeth Precinct: ACHAR assessment methodology

8 November 2019

Jody Kulakowski  
Barking Owl Aboriginal Corporation

Dear Jody Kulakowski,

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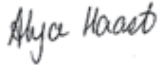
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LGA: Penrith

Scale: 1:7500  
Size: A4  
Date: 22-03-2019



## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Friday, 8 November 2019 3:32 PM  
**To:** Widescope.group@live.com  
**Subject:** Elizabeth Precinct: ACHAR assessment methodology

8 November 2019

Steven Hickey  
Widescope Indigenous Group

Dear Steven Hickey,

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Pyrmont NSW 2009

Or via email: [alyce.haast@artefact.net.au](mailto:alyce.haast@artefact.net.au)

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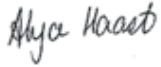
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alyce.haast@artefact.net.au  
02 9518 8411

**Figure 1: Map of study area**





## Study Area

19024 Elizabeth Drive Enterprise Precinct

LGA: Penrith

Scale: 1:7500  
Size: A4  
Date: 22-03-2019





## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Friday, 8 November 2019 3:32 PM  
**To:** daruglandobservations@gmail.com  
**Subject:** Elizabeth Precinct: ACHAR assessment methodology

8 November 2019

Anna Ohara  
Darug Land Observations

Dear Anna Ohara,

### **Re: Elizabeth Enterprise Precinct (EEP) Stage 1: Proposed ACHAR Methodology**

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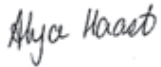
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02 9518 8411

**Figure 1: Map of study area**



## Study Area

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LGA: Penrith

Scale: 1:7500  
Size: A4  
Date: 22-03-2019



## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Friday, 8 November 2019 3:32 PM  
**To:** cazadirect@live.com  
**Subject:** Elizabeth Precinct: ACHAR assessment methodology

8 November 2019

Carolyn Hickey  
A1 Indigenous Services

Dear Carolyn Hickey,

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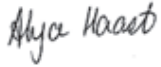
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**Figure 1: Map of study area**



## Study Area

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LGA: Penrith

Scale: 1:7500  
Size: A4  
Date: 22-03-2019



## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Friday, 8 November 2019 3:32 PM  
**To:** justinecoplin@optusnet.com.au  
**Subject:** Elizabeth Precinct: ACHAR assessment methodology

8 November 2019

Justine Coplin  
Darug Custodian Aboriginal Corporation

Dear Justine Coplin,

### **Re: Elizabeth Enterprise Precinct (EEP) Stage 1: Proposed ACHAR Methodology**

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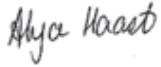


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LGA: Penrith

Scale: 1:7500  
Size: A4  
Date: 22-03-2019



## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Friday, 8 November 2019 3:32 PM  
**To:** Kayla\_87\_@hotmail.com  
**Subject:** Elizabeth Precinct: ACHAR assessment methodology

8 November 2019

Kayla Williamson  
Woronora Plateau Gundangara Elders Council

Dear Kayla Williamson,

### **Re: Elizabeth Enterprise Precinct (EEP) Stage 1: Proposed ACHAR Methodology**

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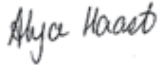
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Scale: 1:7500  
Size: A4  
Date: 22-03-2019



## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Friday, 8 November 2019 3:32 PM  
**To:** 'yulayculturalservices@gmail.com'  
**Subject:** Elizabeth Precinct: ACHAR assessment methodology

8 November 2019

Arika Jalomaki  
Yulay Cultural Services

Dear Arika Jalomaki,

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Artefact Heritage  
Level 4, Building B, 35 Saunders Street  
Pyrmont NSW 2009

Or via email: [alyce.haast@artefact.net.au](mailto:alyce.haast@artefact.net.au)

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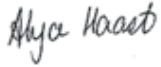
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alyce.haast@artefact.net.au  
02 9518 8411

**Figure 1: Map of study area**





## Study Area

19024 Elizabeth Drive Enterprise Precinct

LGA: Penrith

Scale: 1:7500  
Size: A4  
Date: 22-03-2019





## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Friday, 8 November 2019 3:32 PM  
**To:** 'Merrigarn@hotmail.com'  
**Subject:** Elizabeth Precinct: ACHAR assessment methodology

8 November 2019

Shaun Carroll  
Merrigarn

Dear Shaun Carroll,

### **Re: Elizabeth Enterprise Precinct (EEP) Stage 1: Proposed ACHAR Methodology**

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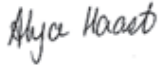
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**Figure 1: Map of study area**



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19024 Elizabeth Drive Enterprise Precinct

LGA: Penrith

Scale: 1:7500  
Size: A4  
Date: 22-03-2019



## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Friday, 8 November 2019 3:31 PM  
**To:** 'desmond4552@hotmail.com'  
**Subject:** Elizabeth Precinct: ACHAR assessment methodology

8 November 2019

Des Dyer  
Darug Aboriginal Land Care

Dear Des Dyer,

### **Re: Elizabeth Enterprise Precinct (EEP) Stage 1: Proposed ACHAR Methodology**

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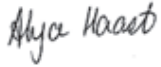
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02 9518 8411

**Figure 1: Map of study area**



## Study Area

19024 Elizabeth Drive Enterprise Precinct

LGA: Penrith

Scale: 1:7500  
Size: A4  
Date: 22-03-2019



## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Friday, 8 November 2019 3:31 PM  
**To:** didgengunawalclan@yahoo.com.au  
**Subject:** Elizabeth Precinct: ACHAR assessment methodology

8 November 2019

Paul Boyd and Lillie Carrol  
Didge Ngunawal Clan

Dear Paul Boyd and Lillie Carrol,

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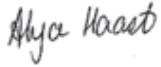


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alyce.haast@artefact.net.au  
02 9518 8411

**Figure 1: Map of study area**



## Study Area

19024 Elizabeth Drive Enterprise Precinct

LGA: Penrith

Scale: 1:7500  
Size: A4  
Date: 22-03-2019



## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Friday, 8 November 2019 3:31 PM  
**To:** koori@ozemail.com.au  
**Subject:** Elizabeth Precinct: ACHAR assessment methodology

8 November 2019

Jennifer Beale  
Butucarbin Aboriginal Corporation

Dear Jennifer Beale,

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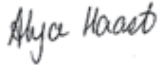
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Scale: 1:7500  
Size: A4  
Date: 22-03-2019



## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Friday, 8 November 2019 3:31 PM  
**To:** amandahickey@live.com.au  
**Subject:** Elizabeth Precinct: ACHAR assessment methodology

8 November 2019

Amanda Hickey  
Amanda Hickey Cultural Services

Dear Amanda Hickey,

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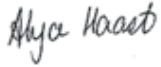
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Kind Regards,



Alyce Haast  
Senior Heritage Consultant  
Artefact Heritage

alyce.haast@artefact.net.au  
02 9518 8411

**Figure 1: Map of study area**





## Study Area

19024 Elizabeth Drive Enterprise Precinct

LGA: Penrith

Scale: 1:7500  
Size: A4  
Date: 22-03-2019





## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Friday, 8 November 2019 3:31 PM  
**To:** murrabidgeemullangari@yahoo.com.au  
**Subject:** Elizabeth Precinct: ACHAR assessment methodology

8 November 2019

Ryan Johnson  
Murra Bidgee Mullangari Aboriginal Corporation

Dear Ryan Johnson,

### **Re: Elizabeth Enterprise Precinct (EEP) Stage 1: Proposed ACHAR Methodology**

Thank you for registering as a stakeholder for the proposed development of Stage 1 of the Elizabeth Enterprise Precinct (EEP). I am looking forward to working with you on this project. Included below are details of the project, and the proposed assessment methodology for your review.

#### **1.1 Proposed Development**

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This proposal seeks approval for a Waste Disposal Facility at 1669 – 1732 Elizabeth Drive, Badgerys Creek, for the disposal of clean waste spoil material resulting from the construction of critical State Significant Infrastructure and building projects.

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SEARs 1295 was issued for the project on 14 February 2019 which specify that an Aboriginal Cultural Heritage Assessment Report (ACHAR) be prepared in accordance with the relevant OEH guidelines and regulations for inclusion in the Environmental Impact Statement (EIS).

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The ACHAR will be completed in accordance with the relevant guidelines:

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- Assess the Aboriginal cultural heritage values of the study area in accordance with the Code of Practice
- Identify Aboriginal archaeological and cultural heritage values that may be impacted by the proposed works
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The ASR identified four Aboriginal sites and three areas of archaeological potential within the study area. It was recommended that archaeological test excavation be conducted within those portions of Elizabeth Precinct PAD01, Elizabeth Precinct PAD02 that would be subject to impact associated with the proposed waste facility development application.

Archaeological test excavation will be undertaken in accordance with requirements 14-17 of the Code of Practice. The proposed test excavation methodology has been prepared separately and was recently provided to stakeholders. Test excavation will be limited to areas of potential which would be subject to impacts as part of the proposed works of the Waste Management Facility development application and subsequently Elizabeth Precinct PAD03 will not be subject to test excavation as part of the current assessment.

The test excavation will be undertaken by archaeologists in partnership with representatives of the RAPs. Due to the number of RAPs, it may not be possible to involve all RAPs in the test excavation program.

Following test excavation an ACHAR report will be completed which will incorporate information from the ASR and archaeological test excavation reporting. These reports will also be included within the ACHAR as an appendix. The ACHAR will include:

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The ACHAR will also assess the Aboriginal heritage significance of the study area, based on comments received from the RAPs and the results of the ASR and test excavation. The potential impact of the proposed development on this significance would be assessed, and management recommendations developed accordingly.

A draft copy of the ACHAR will be sent out for your review, prior to finalisation of the document.

If you would like to comment on the Aboriginal cultural heritage values of the study area or the proposed methodology, please provide your response by **9 December 2019**. Please address your response to me at:

Alyce Haast  
Artefact Heritage  
Level 4, Building B, 35 Saunders Street  
Pyrmont NSW 2009

Or via email: [alyce.haast@artefact.net.au](mailto:alyce.haast@artefact.net.au)

In your response, please consider the following points:

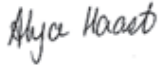
- Do you know of any objects or places of value to Aboriginal people in the study area or locality?

- Are there any protocols for managing cultural information that you would like incorporated into the assessment methodology?
- Are there any access requirements or restrictions that should be applied to the information you are providing?

Please also note that consultation will not necessarily involve paid engagement, as this is not a requirement of the consultation guidelines issued by the Department of Planning, Industry and Environment.

Thank you very much for your involvement in the project. If you require any additional information, please do not hesitate to contact me.

Kind Regards,



Alyce Haast  
Senior Heritage Consultant  
Artefact Heritage

alyce.haast@artefact.net.au  
02 9518 8411

**Figure 1: Map of study area**



## Study Area

19024 Elizabeth Drive Enterprise Precinct

LGA: Penrith

Scale: 1:7500  
Size: A4  
Date: 22-03-2019



8 November 2019

Gordon Morton  
Darug Aboriginal Cultural Heritage Assessments

Dear Gordon Morton,

**Re: Elizabeth Enterprise Precinct (EEP) Stage 1: Proposed ACHAR Methodology**

Thank you for registering as a stakeholder for the proposed development of Stage 1 of the Elizabeth Enterprise Precinct (EEP). I am looking forward to working with you on this project. Included below are details of the project, and the proposed assessment methodology for your review.

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If you would like to comment on the Aboriginal cultural heritage values of the study area or the proposed methodology, please provide your response by **9 December 2019**. Please address your response to me at:

Alyce Haast  
Artefact Heritage

Level 4, Building B, 35 Saunders Street  
Pyrmont NSW 2009

Or via email: [alyce.haast@artefact.net.au](mailto:alyce.haast@artefact.net.au)

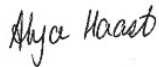
In your response, please consider the following points:

- Do you know of any objects or places of value to Aboriginal people in the study area or locality?
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Please also note that consultation will not necessarily involve paid engagement, as this is not a requirement of the consultation guidelines issued by the Department of Planning, Industry and Environment.

Thank you very much for your involvement in the project. If you require any additional information, please do not hesitate to contact me.

Kind Regards,



Alyce Haast  
Senior Heritage Consultant  
Artefact Heritage

[alyce.haast@artefact.net.au](mailto:alyce.haast@artefact.net.au)  
02 9518 8411

Figure 1: Map of study area



**Study Area**  
**19024 Elizabeth Drive Enterprise Precinct**  
LGA: Penrith

Scale: 1:7500  
Size: A4  
Date: 22-03-2019



Source: Z:\GIS\_Mapping\19024 Elizabeth Drive Enterprise Precinct\19024\_Elizabeth\_Dr\_enterprise\_Precinct.qgz

## Comments on Draft ACHAR Methodology and Draft Test Excavation Methodology

## Alyce Haast

---

**From:** Vicki Slater <vicki.slater@hotmail.com>  
**Sent:** Monday, 4 November 2019 2:04 PM  
**To:** Alyce Haast  
**Subject:** Re: Elizabeth Enterprise Precinct - Aboriginal test excavation methodology

Thanks Alyce.

Regards  
Vicki Slater

On 4 Nov. 2019 1:30 pm, Alyce Haast <Alyce.Haast@artefact.net.au> wrote:

Vicky Slater

Kawul Cultural Services

Dear Vicky Slater,

**Re: Elizabeth Enterprise Precinct (EEP) – Aboriginal test excavation methodology**

Thank you for registering as a stakeholder for the Elizabeth Enterprise Precinct Project, located on Elizabeth Drive, Badgerys Creek.

Preliminary investigation of the project area has been undertaken with an Archaeological Survey Report (ASR) for the project area completed. The ASR recommended completion of test excavation across several areas of potential archaeological deposit identified during survey.

Please find attached link to the draft test excavation methodology for your review,

Test Excavation Methodology: <https://artefact.box.com/s/cuvarz7migvbkwcwechk3en5kxm9fpvm9>

If you have any comments on the methodology, we request that they are provided by **2 December 2019**.

Cheers,

Alyce Haast  
Artefact Heritage  
Senior Heritage Consultant  
[alyce.haast@artefact.net.au](mailto:alyce.haast@artefact.net.au)  
9518 8411  
Level 4, Building B 35 Saunders Street,  
Pyrmont 2009



## Alyce Haast

---

**From:** lilly carroll <didgengunawalclan@yahoo.com.au>  
**Sent:** Monday, 4 November 2019 8:42 PM  
**To:** Alyce Haast  
**Subject:** Re: Elizabeth Enterprise Precinct - Aboriginal test excavation methodology

Hi Alyce,

DNC is happy with the methodology and is very eager to go out in the field for survey and test excavation as we have plenty of experience out Badgerys Creek through Navin Officer and Jacobs and Neville Baker

Kind regards  
Paul Boyd & Lilly Carroll  
Directors DNC

[Sent from Yahoo Mail for iPhone](#)

On Monday, November 4, 2019, 1:30 pm, Alyce Haast <Alyce.Haast@artefact.net.au> wrote:

Paul Boyd and Lillie Carrol

Didge Ngunawal Clan

Dear Paul Boyd and Lillie Carrol,

**Re: Elizabeth Enterprise Precinct (EEP) – Aboriginal test excavation methodology**

Thank you for registering as a stakeholder for the Elizabeth Enterprise Precinct Project, located on Elizabeth Drive, Badgerys Creek.

Preliminary investigation of the project area has been undertaken with an Archaeological Survey Report (ASR) for the project area completed. The ASR recommended completion of test excavation across several areas of potential archaeological deposit identified during survey.

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If you have any comments on the methodology, we request that they are provided by **2 December 2019**.

Cheers,

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[9518 8411](tel:95188411)

Level 4, Building B 35 Saunders Street,  
Pyrmont 2009

## Alyce Haast

---

**From:** justinecoplin@optusnet.com.au  
**Sent:** Wednesday, 6 November 2019 2:44 PM  
**To:** Alyce Haast  
**Subject:** Elizabeth Enterprise Precinct (EEP) - Aboriginal test excavation methodology  
**Attachments:** Elizabeth Enterprise Precinct (EEP) - Aboriginal test excavation methodology.docx



DARUG CUSTODIAN  
ABORIGINAL  
CORPORATION

PO BOX 81 WINDSOR 2756  
PHONE: 0245775181 FAX: 0245775098  
MOBILE: 0414962766 Justine Coplin  
EMAIL: justinecoplin@optusnet.com.au

---

**Attention:** artefact

**Date:** 06/11/19

**Subject:** Elizabeth Enterprise Precinct (EEP) – Aboriginal test excavation methodology

Dear Alyce

Our group is a non- profit organisation that has been active for over forty years in Western Sydney, we are a Darug community group with over three hundred members. The main aim in our constitution is the care of Darug sites, places, wildlife and to promote our culture and provide education on the Darug history.

Our group promotes Darug Culture and works on numerous projects that are culturally based as a proud and diverse group. It has been discussed by our group and with many consultants and researches that our history is generic and is usually from an early colonists perspective or solely based on archaeology and sites. These histories are adequate but they lack the people's stories and parts of important events and connections of the Darug people and also other Aboriginal people that now call this area home and have done so for numerous generations.

This area is significant to the Darug people due to the evidence of continued occupation, within close proximity to this project site there is a complex of significant sites.

Landscapes and landforms are significant to us for the information that they hold and the connection to Darug people. Aboriginal people (Darug) had a complex lifestyle that was based on respect and belonging to the land, all aspects of life and survival did not impact on the land but helped to care for and conserve land and the sustenance that the land

provided. As Darug people moved through the land there were no impacts left, although there was evidence of movement and lifestyle, the people moved through areas with knowledge of their areas

and followed signs that were left in the landscape. Darug people knew which areas were not to be entered and respected the areas that were sacred.

Knowledge of culture, lifestyle and lore have been part of Darug people's lives for thousands of years, this was passed down to the next generations and this started with birth and continued for a lifetime. Darug people spent a lifetime learning and as people grew older they passed through stages of knowledge, elders became elders with the learning of stages of knowledge not by their age, being an elder is part of the kinship system this was a very complicated system based on respect.

Darug sites are all connected, our country has a complex of sites that hold our heritage and past history, evidence of the Darug lifestyle and occupation are all across our country, due to the rapid development of Sydney many of our sites have been destroyed, our sites are thousands of years old and within the short period of time that Australia has been developed pre contact our sites have disappeared.

*The Aboriginal cultural heritage consultation requirements for proponents* Section 4.1.8 refers to "Aboriginal organisations representing Aboriginal people who hold cultural knowledge". Recent consultation meetings have revealed that many of these Aboriginal organisations and individuals do not hold cultural knowledge of the Western Sydney area. The increasing involvement of such parties in cultural heritage management means that genuine local Aboriginal organisations are unable to properly care for our cultural heritage.

Many Aboriginal organisations listed in the OEH response letter do not contribute to the Aboriginal community of Western Sydney. Individuals listed in the OEH response letter do not represent the community and while they may be consulted with, should not be employed for their own personal financial benefit.

Our organisation is committed to providing benefits back to our local Aboriginal community through such measures as funding the local Aboriginal juniors' touch football team, painting classes for the local children and donating money to various charities. Employment in cultural heritage activities is source of income that organisations such as ours can use to contribute to beneficial activities and support within the community.

Darug custodian Aboriginal Corporation's site officers have knowledge of Darug land, Darug Culture, Oral histories, landforms, sites, Darug history, wildlife, flora and legislative requirements. We have worked with consultants and developers for many years in Western



Sydney (Darug Land) for conservation, site works, developments and interpretation/education strategie

Darug Custodian Aboriginal Corporation have received and reviewed the methodology for Elizabeth Enterprise Precinct (EEP) .

We support the recommendations set out in this report.

Please contact us with all further enquiries on the above contacts.

Regards



Justine Coplin

We acknowledge and pay respect to the Darug people, the traditional Aboriginal custodians of this land.

## Alyce Haast

---

**From:** Ryan Johnson <murrabidgeemullangari@yahoo.com.au>  
**Sent:** Friday, 8 November 2019 3:46 PM  
**To:** Alyce Haast  
**Subject:** Re: Elizabeth Precinct: ACHAR assessment methodology

Hi Alyce

I have read the project information and methodology for the above project, I endorse the recommendations made.

Thanks

Ryan

0475565517

On 8 Nov 2019, at 3:31 pm, Alyce Haast <Alyce.Haast@artefact.net.au> wrote:

8 November 2019

Ryan Johnson  
Murra Bidgee Mullangari Aboriginal Corporation

Dear Ryan Johnson,

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Kind Regards,

<image001.png>

Alyce Haast  
Senior Heritage Consultant  
Artefact Heritage

[alyce.haast@artefact.net.au](mailto:alyce.haast@artefact.net.au)  
02 9518 8411

**Figure 1: Map of study area**

<image002.jpg>

## Alyce Haast

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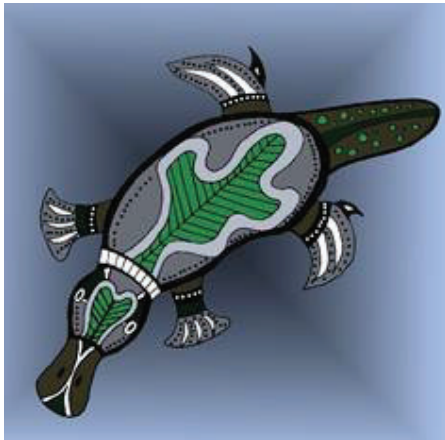
**From:** Ryan Johnson <murrabidgeemullangari@yahoo.com.au>  
**Sent:** Sunday, 10 November 2019 8:16 PM  
**To:** Alyce Haast  
**Subject:** RE: Elizabeth Enterprise Precinct - Aboriginal test excavation methodology

Hi Alyce,\

I have read the project information and test excavation methodology for the above project, I endorse the recommendations made by Artefact.

Kind regards

Ryan Johnson | **Murra Bidgee Mullangari**  
**0475565517**



Aboriginal Corporation Cultural Heritage

**A:** PO Box 246, Seven Hills, NSW, 2147  
**E:** [murrabidgeemullangari@yahoo.com.au](mailto:murrabidgeemullangari@yahoo.com.au)  
**ICN:** 8112

Note: Privileged/Confidential information may be contained in this message and may be subject to legal privilege. Access to this e-mail by anyone other than the intended is unauthorised. If you are not the intended recipient (or responsible for delivery of the message to such person), you may not use, copy, distribute or deliver to anyone this message (or any part of its contents ) or take any action in reliance on it. In such case, you should destroy this message, and notify us immediately. If you have received this email in error, please notify us immediately by e-mail or telephone and delete the e-mail from any computer. If you or your employer does not consent to internet e-mail messages of this kind, please notify us immediately. All reasonable precautions have been taken to ensure no viruses are present in this e-mail. As our company cannot accept responsibility for any loss or damage arising from the use of this e-mail or attachments we recommend that you subject these to your virus checking procedures prior to use. The views, opinions, conclusions and other informations expressed in this electronic mail are not given or endorsed by the company unless otherwise indicated by an authorized representative independent of this message.

---

**From:** Alyce Haast [mailto:Alyce.Haast@artefact.net.au]  
**Sent:** Monday, 4 November 2019 1:30 PM  
**To:** murrabidgeemullangari@yahoo.com.au  
**Subject:** Elizabeth Enterprise Precinct - Aboriginal test excavation methodology

Ryan Johnson

Murra Bidgee Mullangari Aboriginal Corporation



Dear Ryan Johnson,

**Re: Elizabeth Enterprise Precinct (EEP) – Aboriginal test excavation methodology**

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If you have any comments on the methodology, we request that they are provided by **2 December 2019**.

Cheers,

Alyce Haast  
Artefact Heritage  
Senior Heritage Consultant  
[alyce.haast@artefact.net.au](mailto:alyce.haast@artefact.net.au)  
9518 8411  
Level 4, Building B 35 Saunders Street,  
Pyrmont 2009

## Alyce Haast

---

**From:** Glenda Chalker <kgchalker@bigpond.com>  
**Sent:** Monday, 11 November 2019 8:18 AM  
**To:** Alyce Haast  
**Subject:** RE: Elizabeth Enterprise Precinct - Aboriginal test excavation methodology

Alyce,

Could I please have a hard copy.

Glenda

---

**From:** Alyce Haast [mailto:Alyce.Haast@artefact.net.au]  
**Sent:** Monday, 4 November 2019 1:30 PM  
**To:** kgchalker@bigpond.com  
**Subject:** Elizabeth Enterprise Precinct - Aboriginal test excavation methodology

Glenda Chalker

Cubbitch Barta Native Title Claimants

Dear Glenda Chalker,

**Re: Elizabeth Enterprise Precinct (EEP) – Aboriginal test excavation methodology**

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Artefact Heritage  
Senior Heritage Consultant  
[alyce.haast@artefact.net.au](mailto:alyce.haast@artefact.net.au)  
9518 8411  
Level 4, Building B 35 Saunders Street,  
Pyrmont 2009

## Alyce Haast

---

**From:** Glenda Chalker <kgchalker@bigpond.com>  
**Sent:** Monday, 11 November 2019 8:50 AM  
**To:** Alyce Haast  
**Subject:** RE: Elizabeth Enterprise Precinct - Aboriginal test excavation methodology

Alyce

Sorry I have already asked for and received the document. Just opened my mail. Trying to catch up with things after being away for the week.

Glenda

---

**From:** Glenda Chalker [mailto:kgchalker@bigpond.com]  
**Sent:** Monday, 11 November 2019 8:18 AM  
**To:** 'Alyce Haast'  
**Subject:** RE: Elizabeth Enterprise Precinct - Aboriginal test excavation methodology

Alyce,

Could I please have a hard copy.

Glenda

---

**From:** Alyce Haast [mailto:Alyce.Haast@artefact.net.au]  
**Sent:** Monday, 4 November 2019 1:30 PM  
**To:** kgchalker@bigpond.com  
**Subject:** Elizabeth Enterprise Precinct - Aboriginal test excavation methodology

Glenda Chalker

Cubbitch Barta Native Title Claimants

Dear Glenda Chalker,

**Re: Elizabeth Enterprise Precinct (EEP) – Aboriginal test excavation methodology**

Thank you for registering as a stakeholder for the Elizabeth Enterprise Precinct Project, located on Elizabeth Drive, Badgerys Creek.

Preliminary investigation of the project area has been undertaken with an Archaeological Survey Report (ASR) for the project area completed. The ASR recommended completion of test excavation across several areas of potential archaeological deposit identified during survey.

Please find attached link to the draft test excavation methodology for your review,

Test Excavation Methodology: <https://artefact.box.com/s/cuvarz7migvbkwechk3en5kxm9fpvm9>

If you have any comments on the methodology, we request that they are provided by **2 December 2019**.

Cheers,

Alyce Haast  
Artefact Heritage  
Senior Heritage Consultant  
[alyce.haast@artefact.net.au](mailto:alyce.haast@artefact.net.au)  
9518 8411  
Level 4, Building B 35 Saunders Street,  
Pyrmont 2009

## Alyce Haast

---

**From:** justinecoplin@optusnet.com.au  
**Sent:** Tuesday, 12 November 2019 1:46 PM  
**To:** Alyce Haast  
**Subject:** Assessment methodology Elizabeth Enterprise Precinct (EEP) Stage 1  
**Attachments:** Assessment methodology Elizabeth Enterprise Precinct (EEP) Stage 1.docx





DARUG CUSTODIAN  
ABORIGINAL  
CORPORATION

PO BOX 81 WINDSOR 2756  
PHONE: 0245775181 FAX: 0245775098  
MOBILE: 0414962766 Justine Coplin  
EMAIL: justinecoplin@optusnet.com.au

---

**Attention: Artefact**

**Date:** 12/11/19

**Subject:** Methodology for Elizabeth Enterprise Precinct (EEP) Stage 1

Dear Alyce

Our group is a non- profit organisation that has been active for over forty years in Western Sydney, we are a Darug community group with over three hundred members. The main aim in our constitution is the care of Darug sites, places, wildlife and to promote our culture and provide education on the Darug history.

Our group promotes Darug Culture and works on numerous projects that are culturally based as a proud and diverse group. It has been discussed by our group and with many consultants and researches that our history is generic and is usually from an early colonists perspective or solely based on archaeology and sites. These histories are adequate but they lack the people's stories and parts of important events and connections of the Darug people and also other Aboriginal people that now call this area home and have done so for numerous generations.

This area is significant to the Darug people due to the evidence of continued occupation, within close proximity to this project site there is a complex of significant sites.

Landscapes and landforms are significant to us for the information that they hold and the connection to Darug people. Aboriginal people (Darug) had a complex lifestyle that was based on respect and belonging to the land, all aspects of life and survival did not impact on the land but helped to care for and conserve land and the sustenance that the land

provided. As Darug people moved through the land there were no impacts left, although there was evidence of movement and lifestyle, the people moved through areas with knowledge of their areas

and followed signs that were left in the landscape. Darug people knew which areas were not to be entered and respected the areas that were sacred.

Knowledge of culture, lifestyle and lore have been part of Darug people's lives for thousands of years, this was passed down to the next generations and this started with birth and continued for a lifetime. Darug people spent a lifetime learning and as people grew older they passed through stages of knowledge, elders became elders with the learning of stages of knowledge not by their age, being an elder is part of the kinship system this was a very complicated system based on respect.

Darug sites are all connected, our country has a complex of sites that hold our heritage and past history, evidence of the Darug lifestyle and occupation are all across our country, due to the rapid development of Sydney many of our sites have been destroyed, our sites are thousands of years old and within the short period of time that Australia has been developed pre contact our sites have disappeared.

*The Aboriginal cultural heritage consultation requirements for proponents* Section 4.1.8 refers to "Aboriginal organisations representing Aboriginal people who hold cultural knowledge". Recent consultation meetings have revealed that many of these Aboriginal organisations and individuals do not hold cultural knowledge of the Western Sydney area. The increasing involvement of such parties in cultural heritage management means that genuine local Aboriginal organisations are unable to properly care for our cultural heritage.

Many Aboriginal organisations listed in the OEH response letter do not contribute to the Aboriginal community of Western Sydney. Individuals listed in the OEH response letter do not represent the community and while they may be consulted with, should not be employed for their own personal financial benefit.

Our organisation is committed to providing benefits back to our local Aboriginal community through such measures as funding the local Aboriginal juniors' touch football team, painting classes for the local children and donating money to various charities. Employment in cultural heritage activities is source of income that organisations such as ours can use to contribute to beneficial activities and support within the community.

Darug custodian Aboriginal Corporation's site officers have knowledge of Darug land, Darug Culture, Oral histories, landforms, sites, Darug history, wildlife, flora and legislative requirements. We have worked with consultants and developers for many years in Western

Sydney (Darug Land) for conservation, site works, developments and interpretation/education strategie

Darug Custodian Aboriginal Corporation have received and reviewed the report for Elizabeth Enterprise Precinct (EEP) Stage 1.

We support the recommendations set out in this report. We would like to add to the methodology is to do a service collection in the study area.

Please contact us with all further enquiries on the above contacts.

Regards



Justine Coplin

We acknowledge and pay respect to the Darug people, the traditional Aboriginal custodians of this land.

## Alyce Haast

---

**From:** Amanda Hickey <Amandahickey@live.com.au>  
**Sent:** Wednesday, 13 November 2019 4:12 PM  
**To:** Alyce Haast  
**Subject:** Elizabeth drive precinct

Hi Alyce

Thank you for your email and a update on the project.

I feel AHCS would be great for this project as I personally hold strong cultural knowledge towards the land of western Sydney.

I have lived here for 38 years I have been handed down through generations stories of the land and significant sites throughout western Sydney.

I have been owner and operator for 15 years in cultural heritage works.

I feel I would be an asset for the position for fieldwork.

If there is anything you need in the way of insurances or information please don't hesitate.

Have a great day  
Amanda AHCS

Get [Outlook for Android](#)

## Alyce Haast

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**From:** Lee Field <barrabyculturalservices@gmail.com>  
**Sent:** Friday, 15 November 2019 12:42 PM  
**To:** Alyce Haast  
**Subject:** Re: Elizabeth Precinct: ACHAR assessment methodology  
**Attachments:** image002.jpg

Dear Alyce

I on behalf of Barraby have reviewed and agrees with the methodology for this project

Many thanks  
Lee Field

On Fri, 8 Nov. 2019, 3:31 pm Alyce Haast, <[Alyce.Haast@artefact.net.au](mailto:Alyce.Haast@artefact.net.au)> wrote:

8 November 2019

Lee Field  
Barraby Cultural Services

Dear Lee Field,

Re: Elizabeth Enterprise Precinct (EEP) Stage 1: Proposed ACHAR Methodology

Thank you for registering as a stakeholder for the proposed development of Stage 1 of the Elizabeth Enterprise Precinct (EEP). I am looking forward to working with you on this project. Included below are details of the project, and the proposed assessment methodology for your review.

### 1.1 Proposed Development

Mirvac Projects Pty Ltd (Mirvac) (the proponent) propose to submit a designated development application for Stage 1 of the proposed EEP. The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456) (Figure 1).

This proposal seeks approval for a Waste Disposal Facility at 1669 – 1732 Elizabeth Drive, Badgerys Creek, for the disposal of clean waste spoil material resulting from the construction of critical State Significant Infrastructure and building projects.

### 1.2 Background

Mirvac Projects Pty Ltd have requested the Planning Secretary's Environmental Assessment Requirements (SEARs) for the preparation of an Environmental Impact Statement (EIS) for the proposed development. As a designated development, the proponent is seeking approval for the proposed works through a Development Application (DA) to Penrith City Council.



SEARs 1295 was issued for the project on 14 February 2019 which specify that an Aboriginal Cultural Heritage Assessment Report (ACHAR) be prepared in accordance with the relevant OEH guidelines and regulations for inclusion in the Environmental Impact Statement (EIS).

### 1.3 Proposed Assessment Methodology

The ACHAR will be completed in accordance with the relevant guidelines:

- *Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW*
- *Aboriginal Cultural Heritage Consultation Requirements for Proponents*
- *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales*

As part of the ACHAR comprehensive consultation is being undertaken in accordance with Section 80C of the *National Parks and Wildlife Act 2009*. The initial stages of the consultation process have been completed, and a list of Registered Aboriginal Parties (RAPs) has been compiled. The present letter provides the RAPs with project information and the proposed assessment methodology for review.

An Archaeological Survey Report (ASR) has been completed for the study area. The objectives of ASR were to:

- Assess the Aboriginal cultural heritage values of the study area in accordance with the Code of Practice
- Identify Aboriginal archaeological and cultural heritage values that may be impacted by the proposed works
- Identify any further investigations, and mitigation and management measures that may be required, should the project proceed.

The ASR identified four Aboriginal sites and three areas of archaeological potential within the study area. It was recommended that archaeological test excavation be conducted within those portions of Elizabeth Precinct PAD01, Elizabeth Precinct PAD02 that would be subject to impact associated with the proposed waste facility development application.

Archaeological test excavation will be undertaken in accordance with requirements 14-17 of the Code of Practice. The proposed test excavation methodology has been prepared separately and was recently provided to stakeholders. Test excavation will be limited to areas of potential which would be subject to impacts as part of the proposed works of the Waster Management Facility development application and subsequently Elizabeth Precinct PAD03 will not be subject to test excavation as part of the current assessment.

The test excavation will be undertaken by archaeologists in partnership with representatives of the RAPs. Due to the number of RAPs, it may not be possible to involve all RAPs in the test excavation program.

Following test excavation an ACHAR report will be completed which will incorporate information from the ASR and archaeological test excavation reporting. These reports will also be included within the ACHAR as an appendix. The ACHAR will include:

- A description of the project and the extent of the study area
- An archaeological significance assessment of the study area
- A description of the statutory requirements for the protection of Aboriginal heritage
- An impact assessment for recorded Aboriginal sites and areas of archaeological potential

- Provision of measures to avoid, minimise, and if necessary, offset the predicted impacts on Aboriginal heritage values.

The ACHAR will also assess the Aboriginal heritage significance of the study area, based on comments received from the RAPs and the results of the ASR and test excavation. The potential impact of the proposed development on this significance would be assessed, and management recommendations developed accordingly.

A draft copy of the ACHAR will be sent out for your review, prior to finalisation of the document.

If you would like to comment on the Aboriginal cultural heritage values of the study area or the proposed methodology, please provide your response by **9 December 2019**. Please address your response to me at:

Alyce Haast  
Artefact Heritage  
Level 4, Building B, 35 Saunders Street  
Pyrmont NSW 2009

Or via email: [alyce.haast@artefact.net.au](mailto:alyce.haast@artefact.net.au)

In your response, please consider the following points:

- Do you know of any objects or places of value to Aboriginal people in the study area or locality?
- Are there any protocols for managing cultural information that you would like incorporated into the assessment methodology?
- Are there any access requirements or restrictions that should be applied to the information you are providing?

Please also note that consultation will not necessarily involve paid engagement, as this is not a requirement of the consultation guidelines issued by the Department of Planning, Industry and Environment.

Thank you very much for your involvement in the project. If you require any additional information, please do not hesitate to contact me.

Kind Regards,



Alyce Haast  
Senior Heritage Consultant  
Artefact Heritage

[alyce.haast@artefact.net.au](mailto:alyce.haast@artefact.net.au)  
02 9518 8411

Figure 1: Map of study area



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## Alyce Haast

---

**From:** Lee Field <barrabyculturalservices@gmail.com>  
**Sent:** Friday, 15 November 2019 12:49 PM  
**To:** Alyce Haast  
**Subject:** Re: Elizabeth Enterprise Precinct - Aboriginal test excavation methodology

Dear Alyce

Barraby Cultural Services supports the test excavation methodology for this project

Thanks  
Lee Field

On Mon, 4 Nov. 2019, 1:30 pm Alyce Haast, <[Alyce.Haast@artefact.net.au](mailto:Alyce.Haast@artefact.net.au)> wrote:

Lee Field

Barraby Cultural Services

Dear Lee Field,

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Please find attached link to the draft test excavation methodology for your review,

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If you have any comments on the methodology, we request that they are provided by **2 December 2019**.

Cheers,

Alyce Haast  
Artefact Heritage  
Senior Heritage Consultant  
[alyce.haast@artefact.net.au](mailto:alyce.haast@artefact.net.au)  
9518 8411  
Level 4, Building B 35 Saunders Street,  
Pyrmont 2009

## Alyce Haast

---

**From:** Bo Field <yurrandaali\_cs@hotmail.com>  
**Sent:** Friday, 15 November 2019 7:29 PM  
**To:** Alyce Haast  
**Subject:** Re: Elizabeth Precinct: ACHAR assessment methodology

Dear Alyce

Yurrandaali Pty Ltd has reviewed and supports the assessment methodology associated with this project.

Regards  
Bo Field - Director  
Yurrandaali Pty Ltd

On 8 Nov. 2019 3:31 pm, Alyce Haast <Alyce.Haast@artefact.net.au> wrote:

8 November 2019

Bo Field  
Yurrandaali Cultural Services

Dear Bo Field,

Re: Elizabeth Enterprise Precinct (EEP) Stage 1: Proposed ACHAR Methodology

Thank you for registering as a stakeholder for the proposed development of Stage 1 of the Elizabeth Enterprise Precinct (EEP). I am looking forward to working with you on this project. Included below are details of the project, and the proposed assessment methodology for your review.

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Kind Regards,



Alyce Haast  
Senior Heritage Consultant  
Artefact Heritage

[alyce.haast@artefact.net.au](mailto:alyce.haast@artefact.net.au)  
02 9518 8411

Figure 1: Map of study area



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## Alyce Haast

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8 November 2019

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Or via email: [alyce.haast@artefact.net.au](mailto:alyce.haast@artefact.net.au)

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Kind Regards,



Alyce Haast  
Senior Heritage Consultant  
Artefact Heritage

[alyce.haast@artefact.net.au](mailto:alyce.haast@artefact.net.au)  
02 9518 8411

Figure 1: Map of study area



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## Alyce Haast

---

**From:** Goobah <goobahchts@gmail.com>  
**Sent:** Wednesday, 20 November 2019 9:39 AM  
**To:** Alyce Haast  
**Subject:** Re: Elizabeth Enterprise Precinct - Aboriginal test excavation methodology

Elizabeth Enterprise Precinct - Aboriginal test excavation methodology

Good morning this is to confirm that we support the above Aboriginal test excavation methodology and wish to be kept informed of any further developments.

On Mon, Nov 4, 2019 at 1:30 PM Alyce Haast <[Alyce.Haast@artefact.net.au](mailto:Alyce.Haast@artefact.net.au)> wrote:

Basil Smith

Goobah Developments

Dear Basil Smith,

**Re: Elizabeth Enterprise Precinct (EEP) – Aboriginal test excavation methodology**

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Artefact Heritage  
Senior Heritage Consultant  
[alyce.haast@artefact.net.au](mailto:alyce.haast@artefact.net.au)  
9518 8411  
Level 4, Building B 35 Saunders Street,  
Pymont 2009

--

**Regards Basil Smith**  
**Chief Executive Officer**  
**Goobah PH 0405995725**

This email may contain privileged information. Privilege is not waived if it has been sent to you in error, or if you are not the intended recipient. Please immediately notify me and delete the email if you have received this in error.

## Alyce Haast

---

**From:** Arika Jalomaki <yulayculturalservices@gmail.com>  
**Sent:** Wednesday, 20 November 2019 10:40 AM  
**To:** Alyce Haast  
**Subject:** Re: Elizabeth Precinct: ACHAR assessment methodology

To Alyce,

I have reviewed the methodology and support it.

Thanks  
Arika Jalomaki

On Fri, 8 Nov 2019 at 3:31 pm, Alyce Haast <[Alyce.Haast@artefact.net.au](mailto:Alyce.Haast@artefact.net.au)> wrote:

8 November 2019

Arika Jalomaki  
Yulay Cultural Sevices

Dear Arika Jalomaki,

Re: Elizabeth Enterprise Precinct (EEP) Stage 1: Proposed ACHAR Methodology

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## 1.3 Proposed Assessment Methodology

The ACHAR will be completed in accordance with the relevant guidelines:

- *Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW*
- *Aboriginal Cultural Heritage Consultation Requirements for Proponents*
- *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales*

As part of the ACHAR comprehensive consultation is being undertaken in accordance with Section 80C of the *National Parks and Wildlife Act 2009*. The initial stages of the consultation process have been completed, and a list of Registered Aboriginal Parties (RAPs) has been compiled. The present letter provides the RAPs with project information and the proposed assessment methodology for review.

An Archaeological Survey Report (ASR) has been completed for the study area. The objectives of ASR were to:

- Assess the Aboriginal cultural heritage values of the study area in accordance with the Code of Practice
- Identify Aboriginal archaeological and cultural heritage values that may be impacted by the proposed works
- Identify any further investigations, and mitigation and management measures that may be required, should the project proceed.

The ASR identified four Aboriginal sites and three areas of archaeological potential within the study area. It was recommended that archaeological test excavation be conducted within those portions of Elizabeth Precinct PAD01, Elizabeth Precinct PAD02 that would be subject to impact associated with the proposed waste facility development application.

Archaeological test excavation will be undertaken in accordance with requirements 14-17 of the Code of Practice. The proposed test excavation methodology has been prepared separately and was recently provided to stakeholders. Test excavation will be limited to areas of potential which would be subject to impacts as part of the proposed works of the Waster Management Facility development application and subsequently Elizabeth Precinct PAD03 will not be subject to test excavation as part of the current assessment.

The test excavation will be undertaken by archaeologists in partnership with representatives of the RAPs. Due to the number of RAPs, it may not be possible to involve all RAPs in the test excavation program.

Following test excavation an ACHAR report will be completed which will incorporate information from the ASR and archaeological test excavation reporting. These reports will also be included within the ACHAR as an appendix. The ACHAR will include:

- A description of the project and the extent of the study area
- An archaeological significance assessment of the study area
- A description of the statutory requirements for the protection of Aboriginal heritage
- An impact assessment for recorded Aboriginal sites and areas of archaeological potential

- Provision of measures to avoid, minimise, and if necessary, offset the predicted impacts on Aboriginal heritage values.

The ACHAR will also assess the Aboriginal heritage significance of the study area, based on comments received from the RAPs and the results of the ASR and test excavation. The potential impact of the proposed development on this significance would be assessed, and management recommendations developed accordingly.

A draft copy of the ACHAR will be sent out for your review, prior to finalisation of the document.

If you would like to comment on the Aboriginal cultural heritage values of the study area or the proposed methodology, please provide your response by **9 December 2019**. Please address your response to me at:

Alyce Haast  
Artefact Heritage  
[Level 4, Building B, 35 Saunders Street](#)  
[Pyrmont NSW](#) 2009

Or via email: [alyce.haast@artefact.net.au](mailto:alyce.haast@artefact.net.au)

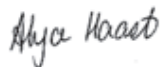
In your response, please consider the following points:

- Do you know of any objects or places of value to Aboriginal people in the study area or locality?
- Are there any protocols for managing cultural information that you would like incorporated into the assessment methodology?
- Are there any access requirements or restrictions that should be applied to the information you are providing?

Please also note that consultation will not necessarily involve paid engagement, as this is not a requirement of the consultation guidelines issued by the Department of Planning, Industry and Environment.

Thank you very much for your involvement in the project. If you require any additional information, please do not hesitate to contact me.

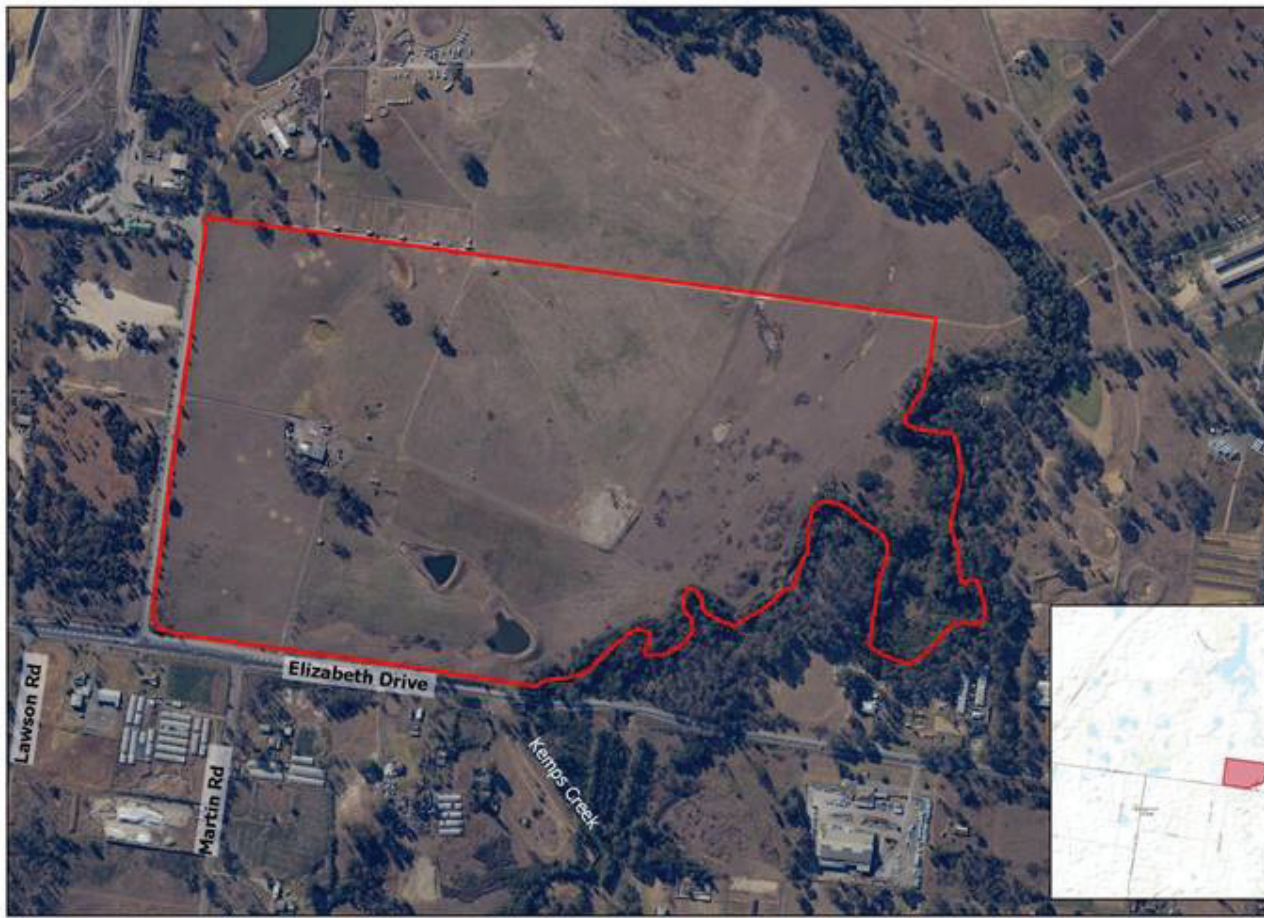
Kind Regards,



Alyce Haast  
Senior Heritage Consultant  
Artefact Heritage

[alyce.haast@artefact.net.au](mailto:alyce.haast@artefact.net.au)  
02 9518 8411

Figure 1: Map of study area



## Study Area

19024 Elizabeth Drive Enterprise Precinct

LGA: Penrith

Scale: 1:7500  
Size: A4  
Date: 22-03-2019



--  
Arika Jalomaki

## Alyce Haast

---

**From:** Caza X <cazadirect@live.com>  
**Sent:** Tuesday, 3 December 2019 6:24 PM  
**To:** Alyce Haast  
**Subject:** Re: Elizabeth Enterprise Precinct - Aboriginal test excavation methodology

## A1

### Indigenous Services

Contact: Carolyn  
M: 0411650057  
E: Cazadirect@live.com  
A: 10 Marie Pitt Place, Glenmore Park, NSW 2745  
ABN: 20 616 970 327

Hi Alyce,  
Sorry for the late response, I have reviewed the document and support the test excavation Methodology.  
A1 would like to be involved in any future field work.  
Thank you  
Carolyn Hickey

---

**From:** Alyce Haast <Alyce.Haast@artefact.net.au>  
**Sent:** Monday, 4 November 2019 1:30 PM  
**To:** cazadirect@live.com <cazadirect@live.com>  
**Subject:** Elizabeth Enterprise Precinct - Aboriginal test excavation methodology

Carolyn Hickey  
A1 Indigenous Services

Dear Carolyn Hickey,

### Re: Elizabeth Enterprise Precinct (EEP) – Aboriginal test excavation methodology

Thank you for registering as a stakeholder for the Elizabeth Enterprise Precinct Project, located on Elizabeth Drive, Badgerys Creek.

Preliminary investigation of the project area has been undertaken with an Archaeological Survey Report (ASR) for the project area completed. The ASR recommended completion of test excavation across several areas of potential archaeological deposit identified during survey.

Please find attached link to the draft test excavation methodology for your review,

Test Excavation Methodology: <https://artefact.box.com/s/cuvarz7migvbkwcwechk3en5kxm9fpvm9>

If you have any comments on the methodology, we request that they are provided by **2 December 2019**.

Cheers,

Alyce Haast  
Artefact Heritage  
Senior Heritage Consultant  
[alyce.haast@artefact.net.au](mailto:alyce.haast@artefact.net.au)  
9518 8411  
Level 4, Building B 35 Saunders Street,  
Pyrmont 2009



## Alyce Haast

---

**From:** Caza X <cazadirect@live.com>  
**Sent:** Tuesday, 3 December 2019 7:12 PM  
**To:** Alyce Haast  
**Subject:** Re: Elizabeth Precinct: ACHAR assessment methodology

## A1

### Indigenous Services

Contact: Carolyn  
M: 0411650057  
E: Cazadirect@live.com  
A: 10 Marie Pitt Place, Glenmore Park, NSW 2745  
ABN: 20 616 970 327

Hi,

I have reviewed the document and support the Assessment Methodology.

A1 would like to be involved in any future field work.

Thank you

Carolyn Hickey

---

**From:** Alyce Haast <Alyce.Haast@artefact.net.au>  
**Sent:** Friday, 8 November 2019 3:31 PM  
**To:** cazadirect@live.com <cazadirect@live.com>  
**Subject:** Elizabeth Precinct: ACHAR assessment methodology

8 November 2019

Carolyn Hickey  
A1 Indigenous Services

Dear Carolyn Hickey,

### Re: Elizabeth Enterprise Precinct (EEP) Stage 1: Proposed ACHAR Methodology

Thank you for registering as a stakeholder for the proposed development of Stage 1 of the Elizabeth Enterprise Precinct (EEP). I am looking forward to working with you on this project. Included below are details of the project, and the proposed assessment methodology for your review.

## 1.1 Proposed Development

Mirvac Projects Pty Ltd (Mirvac) (the proponent) propose to submit a designated development application for Stage 1 of the proposed EEP. The EEP Stage 1 site is located at 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP860456) (Figure 1).

This proposal seeks approval for a Waste Disposal Facility at 1669 – 1732 Elizabeth Drive, Badgerys Creek, for the disposal of clean waste spoil material resulting from the construction of critical State Significant Infrastructure and building projects.

## 1.2 Background

Mirvac Projects Pty Ltd have requested the Planning Secretary's Environmental Assessment Requirements (SEARs) for the preparation of an Environmental Impact Statement (EIS) for the proposed development. As a designated development, the proponent is seeking approval for the proposed works through a Development Application (DA) to Penrith City Council.

SEARs 1295 was issued for the project on 14 February 2019 which specify that an Aboriginal Cultural Heritage Assessment Report (ACHAR) be prepared in accordance with the relevant OEH guidelines and regulations for inclusion in the Environmental Impact Statement (EIS).

## 1.3 Proposed Assessment Methodology

The ACHAR will be completed in accordance with the relevant guidelines:

- *Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW*
- *Aboriginal Cultural Heritage Consultation Requirements for Proponents*
- *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales*

As part of the ACHAR comprehensive consultation is being undertaken in accordance with Section 80C of the *National Parks and Wildlife Act 2009*. The initial stages of the consultation process have been completed, and a list of Registered Aboriginal Parties (RAPs) has been compiled. The present letter provides the RAPs with project information and the proposed assessment methodology for review.

An Archaeological Survey Report (ASR) has been completed for the study area. The objectives of ASR were to:

- Assess the Aboriginal cultural heritage values of the study area in accordance with the Code of Practice
- Identify Aboriginal archaeological and cultural heritage values that may be impacted by the proposed works
- Identify any further investigations, and mitigation and management measures that may be required, should the project proceed.

The ASR identified four Aboriginal sites and three areas of archaeological potential within the study area. It was recommended that archaeological test excavation be conducted within those portions of Elizabeth Precinct PAD01, Elizabeth Precinct PAD02 that would be subject to impact associated with the proposed waste facility development application.

Archaeological test excavation will be undertaken in accordance with requirements 14-17 of the Code of Practice. The proposed test excavation methodology has been prepared separately and was recently provided to stakeholders. Test excavation will be limited to areas of potential which would be subject to impacts as part of the proposed works of the Waster Management Facility development application and subsequently Elizabeth Precinct PAD03 will not be subject to test excavation as part of the current assessment.

The test excavation will be undertaken by archaeologists in partnership with representatives of the RAPs. Due to the number of RAPs, it may not be possible to involve all RAPs in the test excavation program.

Following test excavation an ACHAR report will be completed which will incorporate information from the ASR and archaeological test excavation reporting. These reports will also be included within the ACHAR as an appendix. The ACHAR will include:

- A description of the project and the extent of the study area
- An archaeological significance assessment of the study area
- A description of the statutory requirements for the protection of Aboriginal heritage
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- Provision of measures to avoid, minimise, and if necessary, offset the predicted impacts on Aboriginal heritage values.

The ACHAR will also assess the Aboriginal heritage significance of the study area, based on comments received from the RAPs and the results of the ASR and test excavation. The potential impact of the proposed development on this significance would be assessed, and management recommendations developed accordingly.

A draft copy of the ACHAR will be sent out for your review, prior to finalisation of the document.

If you would like to comment on the Aboriginal cultural heritage values of the study area or the proposed methodology, please provide your response by **9 December 2019**. Please address your response to me at:

Alyce Haast  
Artefact Heritage  
Level 4, Building B, 35 Saunders Street  
Pyrmont NSW 2009

Or via email: [alyce.haast@artefact.net.au](mailto:alyce.haast@artefact.net.au)

In your response, please consider the following points:

- Do you know of any objects or places of value to Aboriginal people in the study area or locality?
- Are there any protocols for managing cultural information that you would like incorporated into the assessment methodology?
- Are there any access requirements or restrictions that should be applied to the information you are providing?

Please also note that consultation will not necessarily involve paid engagement, as this is not a requirement of the consultation guidelines issued by the Department of Planning, Industry and Environment.

Thank you very much for your involvement in the project. If you require any additional information, please do not hesitate to contact me.

Kind Regards,



Alyce Haast  
Senior Heritage Consultant  
Artefact Heritage

[alyce.haast@artefact.net.au](mailto:alyce.haast@artefact.net.au)  
02 9518 8411

Figure 1: Map of study area



Cubbitch Barta Native Title Claimants  
Aboriginal Corporation  
55 Nightingale Road,  
PHEASANTS NEST. N.S.W. 2574  
11<sup>th</sup> November, 2019.

Artefact  
Level 4, Building B  
35 Saunders Street,  
PYRMONT. N.S.W. 2009.

Dear Alyce,

RE; ELIZABETH ENTERPRISE  
PRECINCT STAGE 1

Thank you for the opportunity of commenting on the proposed methodology for testing at the above project.

The methodology is okay with me, the only thing that I must say that the excavated material should only be wet sieved, not dry sieving as a possible option.

Just so that you are aware many colonial homesteads were built on Aboriginal camp sites, because of the perfect location within the landscape. If there is to be an excavation for heritage, then there should be something included in that process that takes into consideration the possibility of Aboriginal objects being present also.

Yours faithfully,



Glenda Chalker

Phone/Fax 0246841129 0427218425

[kgchalker@bigpond.com](mailto:kgchalker@bigpond.com)





## Review of Draft ACHAR

## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Friday, 1 May 2020 12:37 PM  
**To:** murrabidgeemullangari@yahoo.com.au  
**Subject:** Draft ACHAR review - Elizabeth Enterprise Precinct

Ryan Johnson  
Murra Bidgee Mullangari Aboriginal Corporation

Via email: murrabidgeemullangari@yahoo.com.au

**Re: Notification of Review Period for ACHAR – Elizabeth Enterprise Precinct**

Hi Ryan Johnson,

Artefact Heritage, have prepared a draft Aboriginal Cultural Heritage Assessment Report (ACHAR) in accordance with the Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW and the Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW for the Elizabeth Enterprise Precinct.

A link to the ACHAR is provided below for your review. The ACHAR is supported by a draft test excavation report and archaeological survey report which have also been attached for your reference

ACHAR: <https://artefact.box.com/s/xgw19kq7yn9qxr7oq34tovlwojhvne38>

ATER: <https://artefact.box.com/s/etq6wkjmw2q5rnn6316778yddfn4hban>

ASR: <https://artefact.box.com/s/ngl8hlccwhbnavd8lyottw1y39pu00i>

In accordance with the Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010, Artefact Heritage seeks your review of the above reports by 30 May 2020.

If you wish to provide comments on the reports, please issue comments to Alyce Haast by 30 May 2020:

Alyce Haast

Artefact Heritage

Suite 56, Jones Bay Wharf,

26-34 Pirrama Road, Pyrmont NSW 2009

or email: [alyce.haast@artefact.net.au](mailto:alyce.haast@artefact.net.au).

Yours sincerely

Alyce Haast

**Encl:**

1. Draft Elizabeth Enterprise Precinct - Aboriginal Cultural Heritage Assessment Report 2020
2. Draft Elizabeth Enterprise Precinct - Aboriginal Test Excavation Report 2020

### **3. Elizabeth Enterprise Precinct – Archaeological survey report 2019**

## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Friday, 1 May 2020 12:37 PM  
**To:** amandahickey@live.com.au  
**Subject:** Draft ACHAR review - Elizabeth Enterprise Precinct

Amanda Hickey  
Amanda Hickey Cultural Services

Via email: amandahickey@live.com.au

### **Re: Notification of Review Period for ACHAR – Elizabeth Enterprise Precinct**

Hi Amanda Hickey,

Artefact Heritage, have prepared a draft Aboriginal Cultural Heritage Assessment Report (ACHAR) in accordance with the Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW and the Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW for the Elizabeth Enterprise Precinct.

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Suite 56, Jones Bay Wharf,

26-34 Pirrama Road, Pyrmont NSW 2009

or email: [alyce.haast@artefact.net.au](mailto:alyce.haast@artefact.net.au).

Yours sincerely

Alyce Haast

**Encl:**

1. **Draft Elizabeth Enterprise Precinct - Aboriginal Cultural Heritage Assessment Report 2020**
2. **Draft Elizabeth Enterprise Precinct - Aboriginal Test Excavation Report 2020**



### **3. Elizabeth Enterprise Precinct – Archaeological survey report 2019**

## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Friday, 1 May 2020 12:37 PM  
**To:** koori@ozemail.com.au  
**Subject:** Draft ACHAR review - Elizabeth Enterprise Precinct

Jennifer Beale  
Butacarbin Aboriginal Corporation

Via email: koori@ozemail.com.au

### **Re: Notification of Review Period for ACHAR – Elizabeth Enterprise Precinct**

Hi Jennifer Beale,

Artefact Heritage, have prepared a draft Aboriginal Cultural Heritage Assessment Report (ACHAR) in accordance with the Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW and the Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW for the Elizabeth Enterprise Precinct.

A link to the ACHAR is provided below for your review. The ACHAR is supported by a draft test excavation report and archaeological survey report which have also been attached for your reference

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Alyce Haast

Artefact Heritage

Suite 56, Jones Bay Wharf,

26-34 Pirrama Road, Pyrmont NSW 2009

or email: [alyce.haast@artefact.net.au](mailto:alyce.haast@artefact.net.au).

Yours sincerely

Alyce Haast

**Encl:**

1. **Draft Elizabeth Enterprise Precinct - Aboriginal Cultural Heritage Assessment Report 2020**
2. **Draft Elizabeth Enterprise Precinct - Aboriginal Test Excavation Report 2020**

### **3. Elizabeth Enterprise Precinct – Archaeological survey report 2019**

## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Friday, 1 May 2020 12:37 PM  
**To:** didgengunawalclan@yahoo.com.au  
**Subject:** Draft ACHAR review - Elizabeth Enterprise Precinct

Paul Boyd and Lillie Carrol  
Didge Ngunawal Clan

Via email: didgengunawalclan@yahoo.com.au

### **Re: Notification of Review Period for ACHAR – Elizabeth Enterprise Precinct**

Hi Paul Boyd and Lillie Carrol,

Artefact Heritage, have prepared a draft Aboriginal Cultural Heritage Assessment Report (ACHAR) in accordance with the Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW and the Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW for the Elizabeth Enterprise Precinct.

A link to the ACHAR is provided below for your review. The ACHAR is supported by a draft test excavation report and archaeological survey report which have also been attached for your reference

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Alyce Haast

Artefact Heritage

Suite 56, Jones Bay Wharf,

26-34 Pirrama Road, Pyrmont NSW 2009

or email: [alyce.haast@artefact.net.au](mailto:alyce.haast@artefact.net.au).

Yours sincerely

Alyce Haast

**Encl:**

1. **Draft Elizabeth Enterprise Precinct - Aboriginal Cultural Heritage Assessment Report 2020**
2. **Draft Elizabeth Enterprise Precinct - Aboriginal Test Excavation Report 2020**

### **3. Elizabeth Enterprise Precinct – Archaeological survey report 2019**



## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Friday, 1 May 2020 12:37 PM  
**To:** desmond4552@hotmail.com  
**Subject:** Draft ACHAR review - Elizabeth Enterprise Precinct

Des Dyer  
Darug Aboriginal Land Care

Via email: desmond4552@hotmail.com

### **Re: Notification of Review Period for ACHAR – Elizabeth Enterprise Precinct**

Hi Des Dyer,

Artefact Heritage, have prepared a draft Aboriginal Cultural Heritage Assessment Report (ACHAR) in accordance with the Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW and the Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW for the Elizabeth Enterprise Precinct.

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ASR: <https://artefact.box.com/s/ngl8hlccwhbnavd8lyottw1y39pu00i>

In accordance with the Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010, Artefact Heritage seeks your review of the above reports by 30 May 2020.

If you wish to provide comments on the reports, please issue comments to Alyce Haast by 30 May 2020:

Alyce Haast

Artefact Heritage

Suite 56, Jones Bay Wharf,

26-34 Pirrama Road, Pyrmont NSW 2009

or email: [alyce.haast@artefact.net.au](mailto:alyce.haast@artefact.net.au).

Yours sincerely

Alyce Haast

**Encl:**

1. **Draft Elizabeth Enterprise Precinct - Aboriginal Cultural Heritage Assessment Report 2020**
2. **Draft Elizabeth Enterprise Precinct - Aboriginal Test Excavation Report 2020**

### **3. Elizabeth Enterprise Precinct – Archaeological survey report 2019**

## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Friday, 1 May 2020 12:37 PM  
**To:** Merrigarn@hotmail.com  
**Subject:** Draft ACHAR review - Elizabeth Enterprise Precinct

Shaun Carroll  
Merrigarn

Via email: Merrigarn@hotmail.com

### **Re: Notification of Review Period for ACHAR – Elizabeth Enterprise Precinct**

Hi Shaun Carroll,

Artefact Heritage, have prepared a draft Aboriginal Cultural Heritage Assessment Report (ACHAR) in accordance with the Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW and the Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW for the Elizabeth Enterprise Precinct.

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Alyce Haast

Artefact Heritage

Suite 56, Jones Bay Wharf,

26-34 Pirrama Road, Pyrmont NSW 2009

or email: [alyce.haast@artefact.net.au](mailto:alyce.haast@artefact.net.au).

Yours sincerely

Alyce Haast

**Encl:**

1. **Draft Elizabeth Enterprise Precinct - Aboriginal Cultural Heritage Assessment Report 2020**
2. **Draft Elizabeth Enterprise Precinct - Aboriginal Test Excavation Report 2020**

### **3. Elizabeth Enterprise Precinct – Archaeological survey report 2019**

## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Friday, 1 May 2020 12:37 PM  
**To:** yulayculturalservices@gmail.com  
**Subject:** Draft ACHAR review - Elizabeth Enterprise Precinct

Arika Jalomaki  
Yulay Cultural Services

Via email: yulayculturalservices@gmail.com

### **Re: Notification of Review Period for ACHAR – Elizabeth Enterprise Precinct**

Hi Arika Jalomaki,

Artefact Heritage, have prepared a draft Aboriginal Cultural Heritage Assessment Report (ACHAR) in accordance with the Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW and the Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW for the Elizabeth Enterprise Precinct.

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Alyce Haast

Artefact Heritage

Suite 56, Jones Bay Wharf,

26-34 Pirrama Road, Pyrmont NSW 2009

or email: [alyce.haast@artefact.net.au](mailto:alyce.haast@artefact.net.au).

Yours sincerely

Alyce Haast

**Encl:**

1. **Draft Elizabeth Enterprise Precinct - Aboriginal Cultural Heritage Assessment Report 2020**
2. **Draft Elizabeth Enterprise Precinct - Aboriginal Test Excavation Report 2020**



### **3. Elizabeth Enterprise Precinct – Archaeological survey report 2019**

## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Friday, 1 May 2020 12:37 PM  
**To:** Kayla\_87\_@hotmail.com  
**Subject:** Draft ACHAR review - Elizabeth Enterprise Precinct

Kayla Williamson  
Woronora Plateau Gundangara Elders Council

Via email: Kayla\_87\_@hotmail.com

**Re: Notification of Review Period for ACHAR – Elizabeth Enterprise Precinct**

Hi Kayla Williamson,

Artefact Heritage, have prepared a draft Aboriginal Cultural Heritage Assessment Report (ACHAR) in accordance with the Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW and the Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW for the Elizabeth Enterprise Precinct.

A link to the ACHAR is provided below for your review. The ACHAR is supported by a draft test excavation report and archaeological survey report which have also been attached for your reference

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Alyce Haast

Artefact Heritage

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26-34 Pirrama Road, Pyrmont NSW 2009

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Yours sincerely

Alyce Haast

**Encl:**

1. Draft Elizabeth Enterprise Precinct - Aboriginal Cultural Heritage Assessment Report 2020
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### **3. Elizabeth Enterprise Precinct – Archaeological survey report 2019**

## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Friday, 1 May 2020 12:37 PM  
**To:** 'justinecoplin@optusnet.com.au'  
**Subject:** Draft ACHAR review - Elizabeth Enterprise Precinct

Justine Coplin  
Darug Custodian Aboriginal Corporation

Via email: justinecoplin@optusnet.com.au

**Re: Notification of Review Period for ACHAR – Elizabeth Enterprise Precinct**

Hi Justine Coplin,

Artefact Heritage, have prepared a draft Aboriginal Cultural Heritage Assessment Report (ACHAR) in accordance with the Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW and the Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW for the Elizabeth Enterprise Precinct.

A link to the ACHAR is provided below for your review. The ACHAR is supported by a draft test excavation report and archaeological survey report which have also been attached for your reference

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Alyce Haast

Artefact Heritage

Suite 56, Jones Bay Wharf,

26-34 Pirrama Road, Pyrmont NSW 2009

or email: [alyce.haast@artefact.net.au](mailto:alyce.haast@artefact.net.au).

Yours sincerely

Alyce Haast

**Encl:**

1. **Draft Elizabeth Enterprise Precinct - Aboriginal Cultural Heritage Assessment Report 2020**
2. **Draft Elizabeth Enterprise Precinct - Aboriginal Test Excavation Report 2020**

### **3. Elizabeth Enterprise Precinct – Archaeological survey report 2019**



## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Friday, 1 May 2020 12:37 PM  
**To:** 'cazadirect@live.com'  
**Subject:** Draft ACHAR review - Elizabeth Enterprise Precinct

Carolyn Hickey  
A1 Indigenous Services

Via email: cazadirect@live.com

### **Re: Notification of Review Period for ACHAR – Elizabeth Enterprise Precinct**

Hi Carolyn Hickey,

Artefact Heritage, have prepared a draft Aboriginal Cultural Heritage Assessment Report (ACHAR) in accordance with the Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW and the Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW for the Elizabeth Enterprise Precinct.

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## Alyce Haast

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**From:** Alyce Haast  
**Sent:** Friday, 1 May 2020 12:37 PM  
**To:** 'daruglandobservations@gmail.com'  
**Subject:** Draft ACHAR review - Elizabeth Enterprise Precinct

Anna Ohara  
Darug Land Observations

Via email: daruglandobservations@gmail.com

### **Re: Notification of Review Period for ACHAR – Elizabeth Enterprise Precinct**

Hi Anna Ohara,

Artefact Heritage, have prepared a draft Aboriginal Cultural Heritage Assessment Report (ACHAR) in accordance with the Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW and the Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW for the Elizabeth Enterprise Precinct.

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### **3. Elizabeth Enterprise Precinct – Archaeological survey report 2019**

## Alyce Haast

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**From:** Alyce Haast  
**Sent:** Friday, 1 May 2020 12:37 PM  
**To:** 'Widescope.group@live.com'  
**Subject:** Draft ACHAR review - Elizabeth Enterprise Precinct

Steven Hickey  
Widescope Indigenous Group

Via email: [Widescope.group@live.com](mailto:Widescope.group@live.com)

**Re: Notification of Review Period for ACHAR – Elizabeth Enterprise Precinct**

Hi Steven Hickey,

Artefact Heritage, have prepared a draft Aboriginal Cultural Heritage Assessment Report (ACHAR) in accordance with the Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW and the Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW for the Elizabeth Enterprise Precinct.

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### **3. Elizabeth Enterprise Precinct – Archaeological survey report 2019**



## Alyce Haast

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**From:** Alyce Haast  
**Sent:** Friday, 1 May 2020 12:37 PM  
**To:** 'barkingowlcorp@gmail.com'  
**Subject:** Draft ACHAR review - Elizabeth Enterprise Precinct

Jody Kulakowski  
Barking Owl Aboriginal Corporation

Via email: barkingowlcorp@gmail.com

### **Re: Notification of Review Period for ACHAR – Elizabeth Enterprise Precinct**

Hi Jody Kulakowski,

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### **3. Elizabeth Enterprise Precinct – Archaeological survey report 2019**

## Alyce Haast

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**From:** Alyce Haast  
**Sent:** Friday, 1 May 2020 12:37 PM  
**To:** 'hamptonralph46@gmail.com'  
**Subject:** Draft ACHAR review - Elizabeth Enterprise Precinct

Ralph Hampton  
B.H Heritage Consultants

Via email: hamptonralph46@gmail.com

### **Re: Notification of Review Period for ACHAR – Elizabeth Enterprise Precinct**

Hi Ralph Hampton,

Artefact Heritage, have prepared a draft Aboriginal Cultural Heritage Assessment Report (ACHAR) in accordance with the Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW and the Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW for the Elizabeth Enterprise Precinct.

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### **3. Elizabeth Enterprise Precinct – Archaeological survey report 2019**

## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Friday, 1 May 2020 12:37 PM  
**To:** 'kgchalker@bigpond.com'  
**Subject:** Draft ACHAR review - Elizabeth Enterprise Precinct

Glenda Chalker  
Cubbitch Barta Native Title Claimants Aboriginal Corporation

Via email: kgchalker@bigpond.com

**Re: Notification of Review Period for ACHAR – Elizabeth Enterprise Precinct**

Hi Glenda Chalker,

Artefact Heritage, have prepared a draft Aboriginal Cultural Heritage Assessment Report (ACHAR) in accordance with the Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW and the Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW for the Elizabeth Enterprise Precinct.

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### **3. Elizabeth Enterprise Precinct – Archaeological survey report 2019**



## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Friday, 1 May 2020 12:37 PM  
**To:** barrabyculturalservices@gmail.com  
**Subject:** Draft ACHAR review - Elizabeth Enterprise Precinct

Lee Field  
Barraby Cultural Services

Via email: barrabyculturalservices@gmail.com

### **Re: Notification of Review Period for ACHAR – Elizabeth Enterprise Precinct**

Hi Lee Field,

Artefact Heritage, have prepared a draft Aboriginal Cultural Heritage Assessment Report (ACHAR) in accordance with the Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW and the Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW for the Elizabeth Enterprise Precinct.

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## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Friday, 1 May 2020 12:37 PM  
**To:** yurrandaali\_cs@hotmail.com  
**Subject:** Draft ACHAR review - Elizabeth Enterprise Precinct

Bo Field  
Yurrandaali Cultural Services

Via email: yurrandaali\_cs@hotmail.com

### **Re: Notification of Review Period for ACHAR – Elizabeth Enterprise Precinct**

Hi Bo Field,

Artefact Heritage, have prepared a draft Aboriginal Cultural Heritage Assessment Report (ACHAR) in accordance with the Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW and the Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW for the Elizabeth Enterprise Precinct.

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### **3. Elizabeth Enterprise Precinct – Archaeological survey report 2019**

## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Friday, 1 May 2020 12:37 PM  
**To:** vicki.slater@hotmail.com  
**Subject:** Draft ACHAR review - Elizabeth Enterprise Precinct

Vicky Slater  
Kawul Cultural Services

Via email: vicki.slater@hotmail.com

### **Re: Notification of Review Period for ACHAR – Elizabeth Enterprise Precinct**

Hi Vicky Slater,

Artefact Heritage, have prepared a draft Aboriginal Cultural Heritage Assessment Report (ACHAR) in accordance with the Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW and the Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW for the Elizabeth Enterprise Precinct.

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## Alyce Haast

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**From:** Alyce Haast  
**Sent:** Friday, 1 May 2020 12:37 PM  
**To:** wurrumay@hotmail.com  
**Subject:** Draft ACHAR review - Elizabeth Enterprise Precinct

Kerry Slater  
Wurrumay Consultancy

Via email: wurrumay@hotmail.com

**Re: Notification of Review Period for ACHAR – Elizabeth Enterprise Precinct**

Hi Kerry Slater,

Artefact Heritage, have prepared a draft Aboriginal Cultural Heritage Assessment Report (ACHAR) in accordance with the Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW and the Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW for the Elizabeth Enterprise Precinct.

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## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Friday, 1 May 2020 12:37 PM  
**To:** goobahchts@gmail.com  
**Subject:** Draft ACHAR review - Elizabeth Enterprise Precinct

Basil Smith  
Goobah Developments

Via email: goobahchts@gmail.com

### **Re: Notification of Review Period for ACHAR – Elizabeth Enterprise Precinct**

Hi Basil Smith,

Artefact Heritage, have prepared a draft Aboriginal Cultural Heritage Assessment Report (ACHAR) in accordance with the Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW and the Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW for the Elizabeth Enterprise Precinct.

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## Alyce Haast

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**From:** Alyce Haast  
**Sent:** Friday, 1 May 2020 12:37 PM  
**To:** biamangachts@gmail.com  
**Subject:** Draft ACHAR review - Elizabeth Enterprise Precinct

Janaya Smith  
Biamanga

Via email: biamangachts@gmail.com

### **Re: Notification of Review Period for ACHAR – Elizabeth Enterprise Precinct**

Hi Janaya Smith,

Artefact Heritage, have prepared a draft Aboriginal Cultural Heritage Assessment Report (ACHAR) in accordance with the Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW and the Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW for the Elizabeth Enterprise Precinct.

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**From:** Alyce Haast  
**Sent:** Friday, 1 May 2020 12:37 PM  
**To:** cullendullachts@gmail.com  
**Subject:** Draft ACHAR review - Elizabeth Enterprise Precinct

Corey Smith  
Cullendulla

Via email: cullendullachts@gmail.com

### **Re: Notification of Review Period for ACHAR – Elizabeth Enterprise Precinct**

Hi Corey Smith,

Artefact Heritage, have prepared a draft Aboriginal Cultural Heritage Assessment Report (ACHAR) in accordance with the Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW and the Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW for the Elizabeth Enterprise Precinct.

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## Alyce Haast

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**From:** Alyce Haast  
**Sent:** Friday, 1 May 2020 12:37 PM  
**To:** murramarangchts@gmail.com  
**Subject:** Draft ACHAR review - Elizabeth Enterprise Precinct

Roxanne Smith  
Murramarang

Via email: murramarangchts@gmail.com

### **Re: Notification of Review Period for ACHAR – Elizabeth Enterprise Precinct**

Hi Roxanne Smith,

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Suite 56, Jones Bay Wharf,

26-34 Pirrama Road, Pyrmont NSW 2009

or email: [alyce.haast@artefact.net.au](mailto:alyce.haast@artefact.net.au).

Yours sincerely

Alyce Haast

**Encl:**

1. **Draft Elizabeth Enterprise Precinct - Aboriginal Cultural Heritage Assessment Report 2020**
2. **Draft Elizabeth Enterprise Precinct - Aboriginal Test Excavation Report 2020**

### **3. Elizabeth Enterprise Precinct – Archaeological survey report 2019**

## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Friday, 1 May 2020 12:37 PM  
**To:** [randall@deerubbin.org.au](mailto:randall@deerubbin.org.au)  
**Subject:** Draft ACHAR review - Elizabeth Enterprise Precinct

Steve Randall  
Deerubbin Local Aboriginal Land Council

Via email: [randall@deerubbin.org.au](mailto:randall@deerubbin.org.au)

**Re: Notification of Review Period for ACHAR – Elizabeth Enterprise Precinct**

Hi Steve Randall,

Artefact Heritage, have prepared a draft Aboriginal Cultural Heritage Assessment Report (ACHAR) in accordance with the Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW and the Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW for the Elizabeth Enterprise Precinct.

A link to the ACHAR is provided below for your review. The ACHAR is supported by a draft test excavation report and archaeological survey report which have also been attached for your reference

ACHAR: <https://artefact.box.com/s/xgw19kq7yn9qxr7oq34tovlwojhvne38>

ATER: <https://artefact.box.com/s/etq6wkjmw2q5rnn6316778yddfn4hban>

ASR: <https://artefact.box.com/s/ngl8hlccwhbnavd8lyottw1y39pu00i>

In accordance with the Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010, Artefact Heritage seeks your review of the above reports by 30 May 2020.

If you wish to provide comments on the reports, please issue comments to Alyce Haast by 30 May 2020:

Alyce Haast

Artefact Heritage

Suite 56, Jones Bay Wharf,

26-34 Pirrama Road, Pyrmont NSW 2009

or email: [alyce.haast@artefact.net.au](mailto:alyce.haast@artefact.net.au).

Yours sincerely

Alyce Haast

**Encl:**

1. Draft Elizabeth Enterprise Precinct - Aboriginal Cultural Heritage Assessment Report 2020
2. Draft Elizabeth Enterprise Precinct - Aboriginal Test Excavation Report 2020

### **3. Elizabeth Enterprise Precinct – Archaeological survey report 2019**



## Alyce Haast

---

**From:** Alyce Haast  
**Sent:** Friday, 1 May 2020 12:40 PM  
**To:** kgchalker@bigpond.com  
**Subject:** RE: Draft ACHAR review - Elizabeth Enterprise Precinct

Hi Glenda,

I will also send a copy of these out to you by Post,

Hope you are doing well in these hard times,


Cheers,

**Alyce Haast**  
**Senior Heritage Consultant**

### ARTEFACT

Cultural Heritage Management | Archaeology | Heritage Interpretation

**Telephone:** 61 2 9518 8411 **Mobile:** 0412 487 963  
**Address:** Suite 56, Jones Bay Wharf, 26-32 Pirrama Rd, Pyrmont NSW 2009  
**Web:** [www.artefact.net.au](http://www.artefact.net.au)

 We acknowledge the Traditional Custodians of Country in which we live and work, and pay our respects to them, their culture and their Elders past, present and emerging

---

**From:** Alyce Haast  
**Sent:** Friday, 1 May 2020 12:37 PM  
**To:** 'kgchalker@bigpond.com' <kgchalker@bigpond.com>  
**Subject:** Draft ACHAR review - Elizabeth Enterprise Precinct

Glenda Chalker  
Cubbitch Barta Native Title Claimants Aboriginal Corporation

Via email: [kgchalker@bigpond.com](mailto:kgchalker@bigpond.com)

### Re: Notification of Review Period for ACHAR – Elizabeth Enterprise Precinct

Hi Glenda Chalker,

Artefact Heritage, have prepared a draft Aboriginal Cultural Heritage Assessment Report (ACHAR) in accordance with the Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW and the Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW for the Elizabeth Enterprise Precinct.

A link to the ACHAR is provided below for your review. The ACHAR is supported by a draft test excavation report and archaeological survey report which have also been attached for your reference

ACHAR: <https://artefact.box.com/s/xgw19kq7yn9qxr7oq34tovlwojhvne38>

ATER: <https://artefact.box.com/s/etq6wkjmw2q5rnn6316778yddfn4hban>

ASR: <https://artefact.box.com/s/ngl8hlccwhbnvavd8lyottw1y39pu00i>

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If you wish to provide comments on the reports, please issue comments to Alyce Haast by 30 May 2020:

Alyce Haast

Artefact Heritage

Suite 56, Jones Bay Wharf,

26-34 Pirrama Road, Pyrmont NSW 2009

or email: [alyce.haast@artefact.net.au](mailto:alyce.haast@artefact.net.au).

Yours sincerely

Alyce Haast

**Encl:**

- 1. Draft Elizabeth Enterprise Precinct - Aboriginal Cultural Heritage Assessment Report 2020**
- 2. Draft Elizabeth Enterprise Precinct - Aboriginal Test Excavation Report 2020**
- 3. Elizabeth Enterprise Precinct – Archaeological survey report 2019**

Gordon Morton  
Darug Aboriginal Cultural Heritage Assessments  
Unit 9/ 6 Chapman Avenue  
Chatswood NSW 2067

**Re: Notification of Review Period for ACHAR – Elizabeth Enterprise Precinct**

Hi Gordon Morton,

Artefact Heritage, have prepared a draft Aboriginal Cultural Heritage Assessment Report (ACHAR) in accordance with the Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW and the Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW for the Elizabeth Enterprise Precinct.

A copy of the ACHAR is provided below for your review. The ACHAR is supported by a draft test excavation report and archaeological survey report which have also been provided for your reference

In accordance with the Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010, Artefact Heritage seeks your review of the above reports by 30 May 2020.

If you wish to provide comments on the reports, please issue comments to Alyce Haast by 30 May 2020:

Alyce Haast

Artefact Heritage

Suite 56, Jones Bay Wharf,

26-34 Pirrama Road, Pyrmont NSW 2009

or email: [alyce.haast@artefact.net.au](mailto:alyce.haast@artefact.net.au).

Yours sincerely

Alyce Haast

**Encl:**

- 1. Draft Elizabeth Enterprise Precinct - Aboriginal Cultural Heritage Assessment Report 2020**
- 2. Draft Elizabeth Enterprise Precinct - Aboriginal Test Excavation Report 2020**
- 3. Elizabeth Enterprise Precinct – Archaeological survey report 2019**

## Comments on Draft ACHAR

## Alyce Haast

---

**From:** Carolyn .H <cazadirect@live.com>  
**Sent:** Monday, 18 May 2020 2:51 PM  
**To:** Alyce Haast  
**Subject:** Re: Draft ACHAR review - Elizabeth Enterprise Precinct



**Contact:** Carolyn Hickey  
**M:** 0411650057  
**E:** Cazadirect@live.com  
**A:** 10 Marie Pitt Place, Glenmore Park, NSW 2745  
**ACN:** 639 868 876

Hi,  
I have reviewed the document and support the Draft Aboriginal Cultural Heritage Assessment Report  
Kind Regards  
Carolyn Hickey

---

**From:** Alyce Haast <Alyce.Haast@artefact.net.au>  
**Sent:** Friday, 1 May 2020 12:36 PM  
**To:** cazadirect@live.com <cazadirect@live.com>  
**Subject:** Draft ACHAR review - Elizabeth Enterprise Precinct

Carolyn Hickey  
A1 Indigenous Services

Via email: cazadirect@live.com

**Re: Notification of Review Period for ACHAR – Elizabeth Enterprise Precinct**

Hi Carolyn Hickey,

Artefact Heritage, have prepared a draft Aboriginal Cultural Heritage Assessment Report (ACHAR) in accordance with the Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW and the Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW for the Elizabeth Enterprise Precinct.

A link to the ACHAR is provided below for your review. The ACHAR is supported by a draft test excavation report and archaeological survey report which have also been attached for your reference

ACHAR: <https://artefact.box.com/s/xgw19kq7yn9qxr7oq34tovlwojhvne38>

ATER: <https://artefact.box.com/s/etq6wkjmw2q5rnn6316778yddfn4hban>

ASR: <https://artefact.box.com/s/ngl8hlccwhbnvavd8lyottw1y39pu00i>

In accordance with the Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010, Artefact Heritage seeks your review of the above reports by 30 May 2020.

If you wish to provide comments on the reports, please issue comments to Alyce Haast by 30 May 2020:

Alyce Haast

Artefact Heritage

Suite 56, Jones Bay Wharf,

26-34 Pirrama Road, Pyrmont NSW 2009

or email: [alyce.haast@artefact.net.au](mailto:alyce.haast@artefact.net.au).

Yours sincerely

Alyce Haast

Encl:

- 1. Draft Elizabeth Enterprise Precinct - Aboriginal Cultural Heritage Assessment Report 2020**
- 2. Draft Elizabeth Enterprise Precinct - Aboriginal Test Excavation Report 2020**
- 3. Elizabeth Enterprise Precinct – Archaeological survey report 2019**



## Alyce Haast

---

**From:** justinecoplin@optusnet.com.au  
**Sent:** Tuesday, 12 May 2020 12:01 PM  
**To:** Alyce Haast  
**Subject:** Draft report Elizabeth Enterprise Precinct  
**Attachments:** Draft report Elizabeth Enterprise Precinct .pdf

# DARUG CUSTODIAN

ABORIGINAL CORPORATION



DARUG CUSTODIAN  
ABORIGINAL  
CORPORATION

PO BOX 81 WINDSOR 2756  
PHONE: 0245775181 FAX: 0245775098  
MOBILE: 0414962766 Justine  
EMAIL: Justinecoplin@optusnet.com.au

---

Attention: Artefacts

Date:12/05/2020

Subject: Elizabeth Enterprise Precinct

Dear Alyce

We have received the Draft Reports for Elizabeth Enterprise Precinct.

Our group is a non- profit organisation that has been active for over forty years in Western Sydney, we are a Darug community group with over three hundred members. The main aim in our constitution is the care of Darug sites, places, wildlife and to promote education on the Darug history.

Our group promotes Darug Culture and works on numerous projects that are culturally based as a proud and diverse group. It has been discussed by our group and with many consultants and researches that our history is generic and is usually from an early colonists perspective or solely based on archaeology and sites. These histories are adequate but they lack the people's stories and parts of important events and connections of the Darug people and also other Aboriginal people that now call this area home and have done so for numerous generations.

This area is significant to the Darug people due to the evidence of continued occupation, within close proximity to this project site there is a complex of significant sites.

Landscapes and landforms are significant to us for the information that they hold and the connection to Darug people. Aboriginal people (Darug) had a complex lifestyle that was based on respect and belonging to the land, all aspects of life and survival did not impact on the land but helped to care for and conserve land and the sustenance that the land

provided. As Darug people moved through the land there were no impacts left, although there was evidence of movement and lifestyle, the people moved through areas with knowledge of their areas and followed signs that were left in the landscape. Darug people knew which areas were not to be entered and respected the areas that were sacred.

Knowledge of culture, lifestyle and lore have been part of Darug people's lives for thousands of years, this was passed down to the next generations and this started with birth and continued for a lifetime. Darug people spent a lifetime learning and as people grew older they passed through stages of knowledge, elders became elders with the learning of stages of knowledge not by their age, being an elder is part of the kinship system this was a very complicated system based on respect.

Darug custodian Aboriginal Corporation's site officers have knowledge of Darug land, Darug Culture, Oral histories, landforms, sites, Darug history, wildlife, flora and legislative requirements. We have worked with consultants and developers for many years in Western Sydney (Darug Land) for conservation, site works, developments and interpretation/education strategies

Darug sites are all connected, our country has a complex of sites that hold our heritage and past history, evidence of the Darug lifestyle and occupation are all across our country, due to the rapid development of Sydney many of our sites have been destroyed, our sites are thousands of years old and within the short period of time that Australia has been developed pre contact our sites have disappeared.


Site types in Darug country are predominately artefact scatters, rock shelters, rock escarpments, scarred trees, carved trees, bora rings, engravings, art, landforms, waterways and burials. All across Darug country there is a continuation of sites, the predictive modelling for the Cumberland plain shows that the concentration of sites is near waterways, investigation of sites have shown that the higher concentration is predominately within 50 metres of permanent water although evidence also shows that sites are in areas away from permanent water on all landforms. The sites that are low density or single materials are as important as the higher density sites as they show us the connection and the movement of people across the country.

Within this document the amount of groups for consultation is high with many groups not from this area, we do not support personal profit groups and also do not support any input that they have into the recommendations.

Apart from the amount of people consulted, we support the report.

Please contact us with all further enquiries on the above contacts.

Regards



Justine Coplin

We acknowledge and pay respect to the Darug people, the traditional Aboriginal custodians of this land.

## Alyce Haast

---

**From:** Glenda Chalker <kgchalker@bigpond.com>  
**Sent:** Wednesday, 6 May 2020 3:07 PM  
**To:** Alyce Haast  
**Subject:** elizabeth drive  
**Attachments:** EliabethDrive Artefact6520.docx

Dear Alyce,  
Please find attached my response to the Elizabeth Drive Precinct

Thanking You

Glenda Chalker  
0427218425

Cubbitch Barta Native Title Claimants  
Aboriginal Corporation  
55 Nightingale Road,  
PHEASANTS NEST. N.S.W. 2574  
6<sup>th</sup> May, 2020.

Artefact,  
Suite 56, Jones Bay Wharf,  
26-32 Pirrama Road,  
PYRMONT. N.S.W. 2009

Dear Alyce,

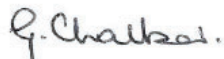
RE; ELIZABETH DRIVE  
PRECINCT

Thank you for the opportunity of participating and commenting on this proposed project. I have several comments to make as follows:

1. The silcrete cobbles mentioned on page 31, in survey unit 1, were they recorded as manuports? They should also be included and recorded in the proposed surface collection.
2. Pad 03 should not be impacted by any earthworks, and should be fenced off prior to any earthworks. This area at the moment is an unknown quantity, but highly likely to contain sub surface material, based on the test excavations of the other two PADs. I would even go as far to extend it into the elbow of the creek. The report talks about an environmental area, but there is nothing clear on any maps. I am presuming that it is within the PAD 03 area. The Aboriginal Heritage should be added to the Environmental area as a Conservation Area.
3. In regards to the cumulative impacts, what is being lost in the Badgerys Creek area, and what will be in the near future, could accumulate to a total loss of Aboriginal Heritage. Another positive reason for the PAD 03 area to be conserved.
4. Intergenerational equity is another reason for PAD 03 to be included as a conservation area, so that future generations may be able to have a very small glimpse into what the whole area was like, and still contains intact Aboriginal Heritage.
5. I agree with the proposed methodology, which has been presented in great detail, and easily read.

Cubbitch Barta would like to continue to be a part of this project. In my opinion the excavated artefacts should be reburied within the PAD03 area

Yours faithfully,



Glenda Chalker  
Phone/Fax 0246841129 0427218425  
[kgchalker@bigpond.com](mailto:kgchalker@bigpond.com)



## Appendix 2: Elizabeth Enterprise Precinct Stage 1 ASR, Artefact Heritage (2019a)

# Elizabeth Enterprise Precinct, Stage 1

Waste Management Facility – Lot 5  
DP860456

Archaeological Survey Report

Report to Mirvac Projects Pty Ltd

November 2019

Penrith LGA



Artefact Heritage  
ABN 73 144 973 526  
Level 4, Building B  
35 Saunders Street  
Pyrmont NSW 2009  
Australia

+61 2 9518 8411  
[office@artefact.net.au](mailto:office@artefact.net.au)

## Document history and status

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4	8 November 2019	Alyce Haast	Alyce Haast	8 November 2019	Final – updated project description	Final
5	22 November 2019	Ryan Taddeucci	Ryan Taddeucci	22 November 2019	Final – updated project description 2	Final

<b>Printed:</b>	
<b>Last saved:</b>	22 November 2019
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<b>Author:</b>	Alyce Haast and Ryan Taddeucci
<b>Project manager:</b>	Alyce Haast
<b>Name of organisation:</b>	Artefact Heritage Services Pty Ltd
<b>Name of project:</b>	Elizabeth Enterprise Precinct
<b>Name of document:</b>	Elizabeth Enterprise Precinct – Stage 1 - Aboriginal Archaeological Survey Report
<b>Document version:</b>	Final

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## EXECUTIVE SUMMARY

This Aboriginal Archaeological Survey Report (ASR) has been prepared by Artefact Heritage Services Pty Ltd (Artefact Heritage) on behalf of Mirvac Projects Pty Ltd (the proponent) to support a Development Application under Part 4 of the Environmental Planning and Assessment Act 1979 at 1669-1732 Elizabeth Drive, Badgerys Creek.

It was found that

- Four Aboriginal sites area located within the study area
- Three areas of archaeological potential have been identified within the study area
- All recorded surface sites have been assessed as being subject to total impacts by the proposed works
- Elizabeth Precinct PAD01 and Elizabeth Precinct PAD02 has been assessed as being subject to total impacts by the proposed works
- Elizabeth Precinct PAD03 will not be impacted by the proposed works

Based on the results of this assessment and statutory requirements set out under the Act, the following recommendations are made:

- Archaeological test excavation should be conducted within those portions of Elizabeth Precinct PAD01 and Elizabeth Precinct PAD02 that will be impacted by proposed waste management facility Development Application.
- Elizabeth Precinct PAD03 is outside of the proposed impacts of the waste management facility. If design changes indicate impact to Elizabeth Precinct PAD03, test excavation must be undertaken within Elizabeth Precinct PAD03.
- Archaeological test excavation must be undertaken in accordance with the Code of practice for archaeological investigation of Aboriginal objects in New South Wales (DECCW 2010) (Code of Practice). Archaeological test excavation will be undertaken in order to confirm the presence and geographic extent of subsurface Aboriginal objects and assess their significance to inform further recommendations.
- Detailed design should consider minimising impacts on known Aboriginal sites and areas of PAD. An updated impact assessment will be part of the ACHAR following refinement of the proposed cut and fill methodology and clarification of potential impacts to Aboriginal objects.
- Comprehensive Aboriginal stakeholder consultation, carried out in accordance with the 'Aboriginal cultural heritage consultation requirements for proponents' (DECCW 2010), must be conducted for the project.
- An application for an area based AHIP that covers the area of the proposed waste management facility should be submitted to the Department of Planning, Industry and Environment following completion of test excavation and preparation of an ACHAR.

- The ACHAR would outline recommended mitigation measures for inclusion as conditions in the AHIP. Mitigation measures would be conducted following issuance of the AHIP and prior to commencement of construction.
- Aboriginal objects must not be impacted unless an AHIP permitting impact has been issued by the Department of Planning, Industry and Environment.



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## 1.0 INTRODUCTION

### 1.1 Introduction

This Aboriginal Archaeological Survey Report (ASR) has been prepared by Artefact Heritage Services Pty Ltd (Artefact Heritage) on behalf of Mirvac Projects Pty Ltd (the proponent) to support a Development Application under Part 4 of the Environmental Planning and Assessment Act 1979 at 1669-1732 Elizabeth Drive, Badgerys Creek.

This report meets the requirements of the Code of Practice for Archaeological Investigation of Aboriginal objects in NSW (Code of Practice) (Department of Environment, Climate Change & Water [DECCW] 2010) and provides recommendations as to whether further archaeological investigation may be required in relation to the current proposal.

This report has been prepared to support an Aboriginal Cultural Heritage Assessment Report (ACHAR) for the proposal and will be submitted to the Department of Planning, Industry and Environment (formerly Office of Environment and Heritage (OEH)) in support of an application for an Aboriginal Heritage Impact Permit (AHIP).

### 1.2 Project framework

Mirvac Industrial Sub SPV Pty Ltd (the proponent) have request the Planning Secretary's Environmental Assessment Requirements (SEARs) for the preparation of an Environmental Impact Statement (EIS) for the proposed development. As a designated development, the proponent is seeking approval for the proposed works through a Development Application (DA) to Penrith City Council.

SEAR 1295 was issued for the project on 14 February 2019 and requires that an ACHAR be prepared in accordance with the relevant guidelines and regulations for inclusion in the EIS. Agency input from OEH (now the Department of Planning, Industry and Environment) has indicated that an ACHAR with full Aboriginal consultation must be completed to support the EIS.

### 1.3 Study area

The study area is comprised of 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 / DP 860456), a 54.41 hectare (ha) rural property located within the boundaries of Deerubbin Local Aboriginal Land Council (LALC).

The study area is within the Penrith Local Government Area (LGA) and the Western Sydney Priority Growth Area. The study area is within the parish of Claremont within the country of Cumberland.

### 1.4 Description of works

This proposal seeks approval for a Waste Disposal Facility at 1669-1732 Elizabeth Drive, Badgerys Creek, for the disposal of clean waste spoil material resulting from the construction of critical State Significant Infrastructure and building projects.

The site is zoned RU2 – Rural Landscape and E2 – Environmental Conservation noting works are occurring within the RU2 Rural Landscape zone only, under the Penrith LEP 2010.

The proposed development seeks approval for a Waste Disposal Facility including, though not limited to, the following:

- The demolition and removal of existing rural structures;
- Termination, connection or augmentation of services and utilities to the site;
- Dewatering and decommissioning of existing farm dams;
- Heritage salvage works, if required;
- Clearing of existing vegetation on the subject site;
- The importation, placement and compaction of clean waste spoil material as defined within the Fill Management Protocol supporting this application;
- Ancillary onsite earthworks associated with the waste disposal facility; and
- Construction of stormwater, erosion and sediment control systems.

## 1.5 Study scope and objectives

This ASR has been prepared in accordance with the Code of Practice. The scope of this project is to undertake an Aboriginal archaeological survey in conjunction with a representative from the Deerubbin LALC to locate and identify Aboriginal sites and objects or areas of Potential Archaeological Deposit (PAD) and provide recommendations in an ASR for mitigation to Aboriginal archaeological and cultural heritage values or where required recommendations for further assessment.

The objectives of this study are to provide an ASR which:

- Assess the scientific values and significance of the study area in accordance with the Code of Practice
- Evaluate and discuss the potential archaeological values that may be impacted by the proposed works
- Identify any further investigations, and mitigation and management measures that may be required prior to commencement of the proposed works.

This report includes:

- A description of the project and the extent of the study area
- An archaeological significance assessment of the study area
- A description of the statutory requirements for the protection of Aboriginal heritage
- An impact assessment for recorded Aboriginal sites and areas of archaeological potential
- Provision of measures to avoid, minimise, and if necessary, offset the predicted impacts on Aboriginal heritage values.

## 1.6 Limitations

Only Stage 1 of the EEP was subject to archaeological survey for Aboriginal objects and sites. Areas outside of the current study area were not assessed for Aboriginal objects or archaeological potential.

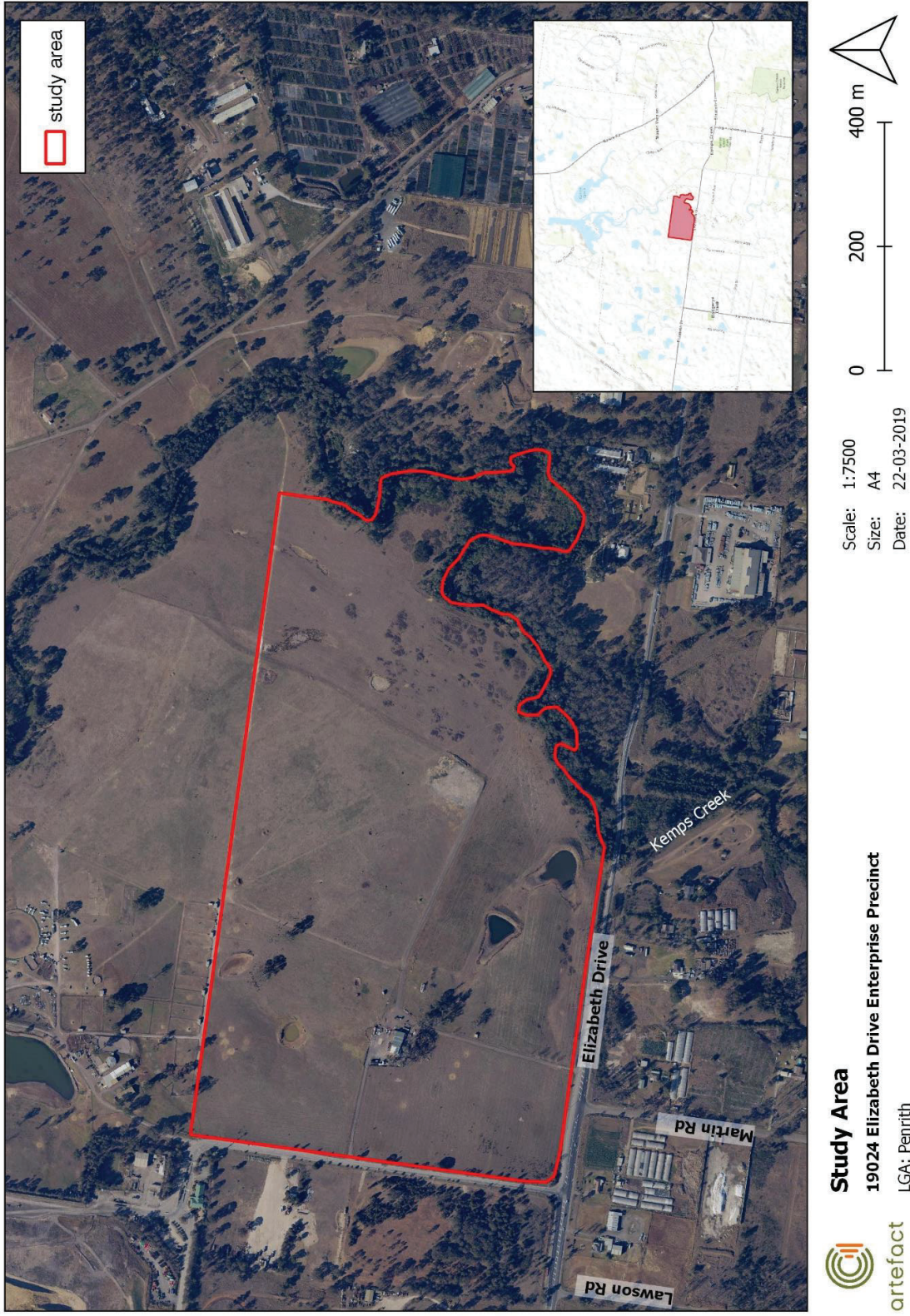
## 1.7 Authors

This report was authored by Alyce Haast (Senior Heritage Consultant, Artefact Heritage) and Ryan Taddeucci (Senior Heritage Consultant, Artefact Heritage). Latisha Ryall (Graduate Heritage Consultant,



Artefact Heritage) completed background research. Management input and review was completed by Josh Symons (Principal, Artefact Heritage) and Dr Sandra Wallace (Managing Director, Artefact Heritage).

Figure 1.1: Study Area



## 2.0 LEGISLATIVE CONTEXT

### 2.1 National Parks and Wildlife Act 1974

The *National Parks and Wildlife Act 1974* (NPW Act) provides statutory protection to all Aboriginal Places and objects. An Aboriginal object is defined under Section 5 of the NPW Act as:

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

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An Aboriginal Place is declared by the Minister, under Section 86 of the NPW Act, in recognition of its special significance with respect to Aboriginal culture. However, areas are only gazetted as Aboriginal Places if the Minister is satisfied that sufficient evidence exists to demonstrate that the location was and/or is of special significance to Aboriginal culture. Aboriginal Places gazetted under the NPW Act are listed on the State Heritage Register established under the *Heritage Act 1977*.

The protection provided to Aboriginal objects applies irrespective of the level of their significance or issues of land tenure. Aboriginal objects and places are afforded automatic statutory protection in NSW whereby it is an offence to knowingly or unknowingly harm or desecrate an Aboriginal object or Aboriginal Place under Section 86 of the NPW Act.

In accordance with Section 89A any person who is aware of the location of an Aboriginal object must in the prescribed manner, notify the Chief Executive within a reasonable time after the person first becomes aware of that object. The prescribed manner is to complete an Aboriginal Heritage Information Management System Site Recording Form (DECCW 2010: 14)

In order to undertake a proposed activity which is likely to involve harm to an Aboriginal Place or object, it is necessary to apply to the Department of Planning, Industry and Environment for an AHIP. AHIPs are issued by the Department of Planning, Industry and Environment under Section 90 of the NPW Act, and permit harm to certain Aboriginal objects or Aboriginal Places.

There are no gazetted Aboriginal Places in the study area. Prior to survey there were no AHIMS registered sites within the study area.

### 2.2 Native Title Act 1994

The *Native Title Act 1994* was introduced to work in conjunction with the Commonwealth *Native Title Act 1993*. Native Title claims, registers and Indigenous Land Use Agreements are administered under the Act. There are no Native Title claims currently registered in the study area.

### 2.3 Aboriginal Lands Right Act 1983

The *Aboriginal Land Rights Act 1983* (ALR Act) established Aboriginal Land Councils (at State and Local levels). These bodies have a statutory obligation under the ALR Act to:

(a) take action to protect the culture and heritage of Aboriginal persons in the council's area, subject to any other law, and

(b) promote awareness in the community of the culture and heritage of Aboriginal persons in the council's area.

The study area is within the boundary of Deerubbin LALC.

## 2.4 Environmental Planning and Assessment Act 1979

The Environmental Planning and Assessment Act 1979 (EP&A Act) establishes the framework for cultural heritage values to be formally assessed in the land use planning and development consent process. The EP&A Act requires that environmental impacts are considered prior to land development; this includes impacts on cultural heritage items and places as well as archaeological sites and deposits. The Proposal is subject to assessment under Part 5 of the EP&A Act.

The EP&A Act also requires that local governments prepare planning instruments (such as Local Environmental Plans [LEPs] and Development Control Plans [DCPs]) in accordance with the EP&A Act to provide guidance on the level of environmental assessment required. The current Proposed location falls within the boundaries of the Penrith Council LGA. Schedule 5 of the Penrith LEP 2015 includes a list of items/sites of heritage significance within the Penrith LGA.

## 2.5 Aboriginal and Torres Strait Islander Heritage Protection Act 1984

The Commonwealth Aboriginal and Torres Strait Islander Heritage Protection Act 1984 (ATSHIP Act), deals with Aboriginal cultural property (intangible heritage) in a wider sense. Such intangible heritage includes any places, objects and folklore that 'are of particular significance to Aboriginals in accordance with Aboriginal tradition'. These values are not currently protected under the NPW Act.

There is no cut-off date and the ATSHIP Act may apply to contemporary Aboriginal cultural property as well as ancient sites. The ATSHIP Act takes precedence over state cultural heritage legislation where there is conflict. The Commonwealth Minister who is responsible for administering the ATSHIP Act can make declarations to protect these areas and objects from specific threats of injury or desecration. The responsible Minister may make a declaration under Section 10 of the Commonwealth Act in situations where state or territory laws do not provide adequate protection of intangible heritage.

Where an Aboriginal individual or organisation is concerned that intangible values within the proposal are not being adequately protected they can apply to the Minister for a declaration over a place.

No intangible places were identified during the survey.



## 3.0 ENVIRONMENTAL CONTEXT

The environmental context of the study area is to assist in the prediction of:

- The potential of the landscape over time to have accumulated and preserved Aboriginal objects
- The ways Aboriginal people have used the landscape in the past with reference to the presence of resource areas, surfaces for art, other focal points for activities and settlement
- The likely distribution of the material traces of Aboriginal land use based on the above.

### 3.1 Environment

#### 3.1.1 Geology and soils

The study area is located within the central portion of the Cumberland Plain, a large low-lying and gently undulating landform in the Sydney Basin. The formation of the basin began between 300 to 250 million years ago when river deltas gradually replaced the ocean that had extended as far west as Lithgow (Pickett and Alder 1997). The oldest, Permian layers of the Sydney Basin consist of marine, alluvial and deltaic deposits that include shales and mudstone overlain by Coal Measures.

The geology of the area is characterised by the Triassic Wianamatta group with consists of black to dark grey shale and laminate on top of Medium to coarse-grained quartz sandstone, very minor shale and laminate. The landform of the study area is the result of local bedrock weathering. The underlying geology is the Hawkesbury Sandstone that was laid down as river sediments and is described as medium to course grained quartz sandstone, this is overlain by the finer sedimentary material caps of Ashfield Shale.

Hawkesbury Sandstone weathers to form thin, sandy soils with low water-retaining qualities. This soil type is commonly located along the ridgelines and mid slopes of the valley such as in the western portion of the study area. These nutrient-poor soils are highly erodible and hence are extremely susceptible to disturbance.

The eastern section of the study area associated with the South Creek floodplain contains the South Creek Fluvial soil landscape. This landscape usually contains floodplains, valley flats and drainage depressions of the channels on the Cumberland Plain. The soils are often very deep layered sediments over bedrock or relict soils. Plastic clays or structured loams occur in and immediately adjacent to drainage lines. red and yellow podzolic soils are most common on terraces with small areas of structured grey clays, leached clay and yellow solodic soils (Bannerman & Hazelton 1990).

The central and western portions of the study area is comprised of the Blacktown Residual soil landscape which has shallow to moderately deep hard setting mottled texture contrast soils, red and brown podzolic soils on crests grading to yellow podzolic soils on lower slopes and in drainage lines. These nutrient-poor soils are highly erodible and hence are extremely susceptible to disturbance.

A small section of the study area (southwest) is comprised of the Berkshire Park alluvial soils. This landscape is the result of three depositional phases of Tertiary alluvial/colluvial origin. The lowest deposit is the St Marys formation, overlain by the Rickabys Creek gravel formation which is of varying thickness and, in turn, is topped by the Londonderry Clay formation. All of these formations are derived from sandstone and clay. Erosion of the surface has led to exposure of all three formations in different locations. The soils of Berkshire Park are weakly pedal orange heavy clays and clayey sands, which are often mottled, ironstone nodules are also common. Large silcrete boulders occur in sand/clay matrix Solods, usually on flats and in small drainage lines. Lower in the landscape where

drainage conditions are poor, thin layers of dark brown sandy loams and brown apedal sandy clay loams are the surface material. Sand may occur in splays or as slugs of sediment within drainage lines. Laterite is often exposed at or near the surface in drainage lines or on crests.

### 3.1.2 Hydrology and vegetation

The study area is located within the Upper South Creek catchment associated with undulating hills and larger drainage lines which all flow to one main channel where alluvial sands and gravels derived from the surrounding rocks are present along current streams. The study area is bordered by South Creek in the east with several first order drainage lines across the study area feeding directly into the creek line. Several additional high order creek lines are located within the vicinity of the study area including Badgerys Creek approximately 400m west of the study area and Kemps Creek approximately 2.1 km east.

The vegetation in the study area has been impacted by urban development and land management practises. The study area would have once been covered by open Cumberland Plain Woodland, which is typical of the Wianamatta Group shale geology. Tree species would have included Forest Red Gum (*Eucalyptus tereticornis*), Sydney Blue Gum (*E. saligna*) and Grey Box (*E. moluccana*). The understory would likely have consisted of grass species, including spear grass, and shrub species such as blackthorn. The areas along South Creek have been frequently inundated as reflected by the vegetation. Common tree species include *Angophora subvelutina* (broad-leaved apple), *Eucalyptus amplifolia* (cabbage gum) and *Casuarina glauca* (swamp oak). Still water species such as *Eleocharis sphacelata* (tall spike rush), *Juncus usitatus* and *Polygonum* spp. occur where channels are silted up. On more elevated streambanks a tall shrubland of *Melaleuca* spp. (paperbarks) and *Leptospermum* spp. (tea trees) may occur. However much of this soil landscape has been previously cleared and is now dominated by exotic species such as *Rubus vulgaris* (blackberry) and other weeds.

## 3.2 Historical background and land use

The historical period in New South Wales began with European land settlement in 1788 when Governor Philip claimed possession of the land now known as Australia, on behalf of the British Government. The documentary evidence relating to this period helps us to better understand the patterning of European settlement and to contextualise its material remains.

Elizabeth Drive dates from the early 1800s and was originally constructed as a 'corduroy' road, using round logs as a base. It was established to provide access to the areas' land grants and was originally known as the Orphan School Road as it extended west from the Orphan School in what is now Bonnyrigg. Its name was later changed to Mulgoa Road, in reference to its western extent, but subsequently changed again in 1952 to honour the visit of Queen Elizabeth II.

In 1809 James Badgery was granted 840 acres, which was revised to 640 following Macquarie's cancellation of the original grant and re-issuance of the grant in 1812. The grant lies between Badgerys Creek and South Creek, north of Elizabeth Drive. He built the homestead and named the property Exeter Farm after the place in England near where he was born (Figure 3.1).

The European settlement at Exeter Farm resulted in the eviction of Aboriginal people within Badgerys lands although there is no reported evidence to suggest that this involved bloodshed. It is further suggested that a small Aboriginal group were permitted by Badgerys to camp on South Creek (Hardy 1989: 19).

Governor Macquarie visited Exeter Farm in November 1810 on his first inspection of the interior of the colony noting in his journal that:



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*Called first at Badgery's Farm close on the left Bank of the South Creek, where I was much pleased to find a good Farm House built, a good Garden, and a considerable quantity of ground cleared*

---

In the 1880s Exeter Farm was subdivided as enclaves of small 30 to 40 acre leased acreages (Figure 3.2). From the 1920s under the provisions of the Soldier Settlement Act 1919 further portions of James Badgery's early grant were divided. Exeter Farm was at that time in the ownership of the Stivens family, who later sold a portion of Exeter Farm to Ern Kent. In the 1930s, Kent sold his property to Peter Nobbs, who moved into the homestead with his family to pursue dairying (Donald and Gulson 1996) (Figure 3.3).

Figure 3.1: 1898 Claremont Parish map

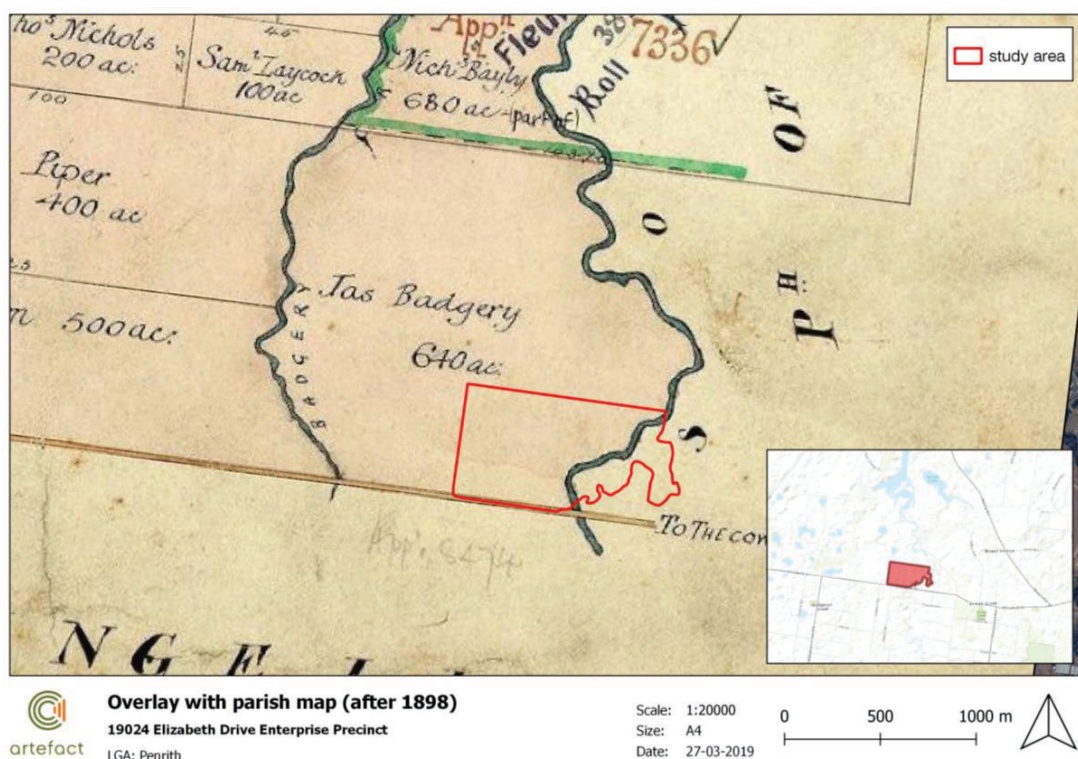


Figure 3.2: Circa 1890 advertisement for the sale of small farming lots between Badgerys Creek and the South Creek (Source: National Library of Australia, Map Folder 33, LFSP434).



Figure 3.3: Ploughing on the Nobbs farm, note Exeter House in the background.



## 4.0 ABORIGINAL CONTEXT

### 4.1 Aboriginal histories of the locality

The study area is located near the boundaries of two Aboriginal language groups, Dharawal and Gundungurra (Tindale 1974). The Dharawal are placed in the area from the south side of Botany Bay and Port Hacking to north of the Shoalhaven River and inland to Campbelltown, Camden and Bargo. They are thought to have ranged further north into the Liverpool region, the boundaries defined today can only be used as indicative (Attenbrow 2010). The Gundungurra are described as occupying the southern rim of the Cumberland Plain, west of the Georges River, including a boundary area with the Dharawal in the Camden and Bargo locality.

As traditional territorial boundaries were fluid it is uncertain which group(s) occupied the study area (Peterson 1976). The current state of knowledge about the fluidity of tribal boundaries is based partly on studies of contemporary Aboriginal communities in northern and central Australia who were less affected by European colonisation, and partly on observations of Aboriginal groups to the west and south-west of Sydney who had been severely affected by the disconnection from their lands cause by European colonisation (Thomson 1985).

There are also ethno-historical observations made by early explorers and settlers in the region, who first came into contact with the Aboriginal people of these areas in the 18th and 19th century. Wilson, during a 1798 expedition through the region, observed that people were wearing large skin cloaks. When James Backhouse travelled to the region in 1836, he noted that skin cloaks were still worn, but some European clothes and blankets were also used, and that ceremonies such as tooth avulsion were also practised (Koettig 1981).

In the early 1800s, relationships between the Aboriginal people of the area and the European settlers were in general amicable. Karskens (2010) notes several examples of close relationships between land owners and local Aboriginal people (Karskens 2010). Relations between Aboriginal people and colonists did not remain amicable. A sustained drought during 1814 and 1815, and continued disenfranchisement of Aboriginal people from the land lead to tensions between farmers and Aboriginal people who remained to the southwest of Sydney. Aboriginal people were accused of stealing corn and potatoes and spearing cattle. A number of farmers were killed on their properties. In a dispatch Governor Macquarie wrote that,

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*The Native Blacks of this country...have lately broken out in open hostility against the British Settlers residing on the banks of the River Nepean near the Cow Pastures.*

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Aboriginal people were targeted, and it was ordered that Aboriginal men be strung from trees when they were killed as an example (Turbet 2011: 234).

In 1816, the tensions culminated in the Appin massacre when Aboriginal people where pursued by a detachment led by Captain James Wallis. Fourteen Aboriginal people of the Dharawal nation were shot or driven over a cliff to their deaths by the soldiers. The bodies of two of the Aboriginal men were strung up at the site (Turbet 2011).

Overall the devastation of the Aboriginal culture did not come about through war with the British, but instead through disease and forced removal from traditional lands. It is thought that during the 1789 smallpox epidemic over half of the Aboriginal people of the Sydney region died. This loss of life meant that some of the Aboriginal groups who lived away from the coastal settlement of Sydney may have

disappeared entirely before Europeans could observe them or record their clan names (Karskens 2010: 452).

Into the nineteen and twentieth century's descendants of the Gundungurra and Dharawal groups continued to live across the southern margin of the Cumberland Plain along with Aboriginal people from other areas of NSW.

## 4.2 Aboriginal Heritage Information Management System

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

An extensive search of the (AHIMS) database was undertaken on the 18 March 2019 (AHIMS search ID 406886). An area of approximately 5 kilometres by 4.7 kilometres was included in the search. The AHIMS search provides archaeological context for the area and identifies whether any previously recorded Aboriginal sites are located within or near the study area. The parameters of the search were as follows:

GDA 1994 MGA 56	291052 – 296054 m E 6247329 - 6252066 m S
Buffer	0 m
Number of sites	54

A total of 54 Aboriginal sites were identified in the extensive AHIMS search area. The frequency of recorded site features is summarised in Table 4.1. A registered Aboriginal site is made up of one or more features and these features should not be confused with registered Aboriginal site. Office of Environment and Heritage lists 20 standard site features that can be used to describe a site registered with AHIMS. For the 54 sites within the search area, four combinations of site features were recorded. The majority of recorded site features are artefacts (n=50) followed by Potential Archaeological Deposit (PAD) (n=2).

**Table 4.1: Frequency of site features from AHIMS data**

Site Feature	Frequency	Percentage (%)
Artefact	50	92.6
Grinding Groove	1	1.85
Modified Tree (Carved or Scarred)	1	1.85
Potential Archaeological Deposit (PAD)	2	3.70
<b>Total</b>	<b>54</b>	<b>100</b>



#### 4.2.1 Sites within the vicinity of the study area

##### **South Creek (AHIMS ID 45-5-0215)**

One site is located within the vicinity of the study area. This site was recorded by Laila Haglund as a grinding groove and is described as consisting of two rock slabs near an isolated dead tree. Slab A is in situ, flush with the ground and measures 1.65x1.20m with 25 clear axe-grinding grooves. Slab B measures 2.25 x 1.4 x 0.4 m but has been moved and is resting on the slope into the creek. This slab has been damaged but has 13 grooves still intact.

According to Navin (2016) the grinding groove stabs relate to the shale based topography of the Cumberland plain. with the site occurring on an outcrop of Minchinbury sandstone, typically in narrow lenses and isolated outcrops. This type of sandstone has been poorly mapped and exposed infrequently across the Plain (Search area =1539 km<sup>2</sup>). Within the shale topographies of the Cumberland Plain, this site is one of only three previously recorded grinding groove sites.

During the survey the recorded location of the site was revisited. The recorded coordinates place the site 300m west of South Creek, however from the description it can be determined that it's a coordinate error and that the probable real location further east on the banks of the Creek. The exact location was unable to be determined and as a result the site was unable to be relocated. Co-ordinate errors are common on the AHIMS data base, particularly for sites not recorded recently.





### 4.3 Previous archaeological assessments

A number of archaeological investigations have been completed in the vicinity of the study area. These have generally been associated with the development of infrastructure and urban release projects. The following discussion presents a review of the most recent and relevant studies and aims to provide contextual information for the current study area.

#### **Archaeological Technical Report (ATR) CSR Advanced Manufacturing Hub, Artefact Heritage (2019)**

Artefact Heritage completed test excavation of a variety of landforms in close proximity to South Creek and 2km south of the current study area.

Excavation involved the excavation of eight transects intended to sample the assessment area at various elevations and distances from South Creek. A total of 32 artefacts were recovered from 18 of the 77 test pits which was interpreted as the repeated occupation of the assessment area by small groups. Excavation recovered a clay ball retainer hearth which was dated to  $2,056 \pm 20$  BP (Wk-48125). Excavation confirmed that the highest density of artefacts was found within close proximity to the creek line despite the identified flood risk associated with this portion of the study area.

#### **Western Sydney Airport, (Navin Officer Heritage Consultants 2016)**

An Aboriginal Cultural Heritage Assessment and test excavations were conducted on the land owned by the Australian Government situated on the west side of Badgerys Creek for the Western Sydney Airport. The assessment area included land directly south of the current study area including assessment of the South Creek corridor. The archaeological assessment incorporated both a survey and test excavation in which 23 new Aboriginal sites were recorded. Nine sites were registered as surface artefacts and 14 were registered as a result of the subsurface testing. The predominant material of these artefacts was silcrete. The sites included isolated artefacts, artefact scatters, and grinding grooves. Artefacts were found across varying landforms with valley floors, basal slopes, first order spur lines and areas within 100m of streams as containing a high average artefact incidence:

#### **EIS for the Second Sydney Airport (Navin Officer Heritage Consultants 1997)**

Navin Officer Heritage Consultants was engaged to conduct an Aboriginal cultural heritage study as part of the Environmental Impact Statement for the site options of the second Sydney airport. These two sites were located in Badgerys Creek and Holsworthy. The location of the Badgerys Creek site is directly south of the current study area. The study incorporated previous Aboriginal heritage studies within the local area, surface survey and oral cultural heritage information discussed with the various groups. Given the large survey area and landscape variables, the study area was divided into local landform units and further subdivided into order of ridgeline and order of stream.

The study identified that most site types are likely to be located in close proximity to water (within 50 m). Sites located near permanent water sources are likely to yield high artefact densities comprised of complex assemblages. A total of 110 sites were recording during this survey. It was found that crests contain the lowest density of sites and isolated artefacts per square kilometre. Disturbance levels can be directly correlated to low archaeological potential. Relatively higher densities have been defined for the major watershed ridgeline between the Nepean River and South Creek catchments. However, it was noted that the relative sample size within the landform may have skewed the results and further research should be required.

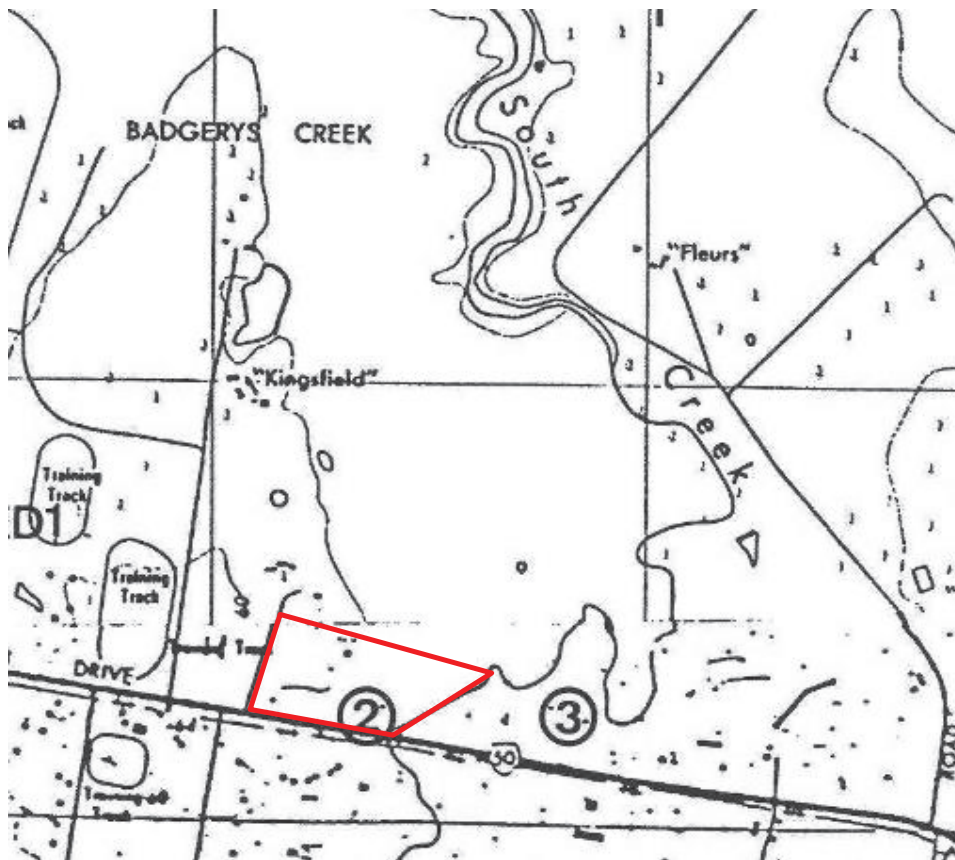


### Elizabeth Drive Upgrade Archaeological Survey for Aboriginal Sites (Brayshaw 1995)

Brayshaw (1995) was engaged by Roads and Traffic Authority to investigate Aboriginal heritage for the Elizabeth Drive upgrade as part of the greater Sydney West Airport site. It was found that much of the Elizabeth Drive road easement had been disturbed as part of the previous road works. Several potential archaeological deposits (PADs) and two artefact scatters were identified north of Elizabeth Drive. These were generally associated with the downstream areas of waterbodies including Kemps Creek, Badgerys Creek, South Creek, and Cosgroves Creek.

One area of PAD was identified within the current study area within the south east portion of the study area. This area was located approximately 80m west of the banks of South Creek within a raised area between Elizabeth Drive and a gully flowing into the creek. Brayshaw considered it likely that that area was dry at most times when compared to the plains adjacent to south creek which were likely subject to frequent flooding.

**Figure 4.2: Area of PAD identified by Brayshaw (shown by the number 2), current study area approximated in red**

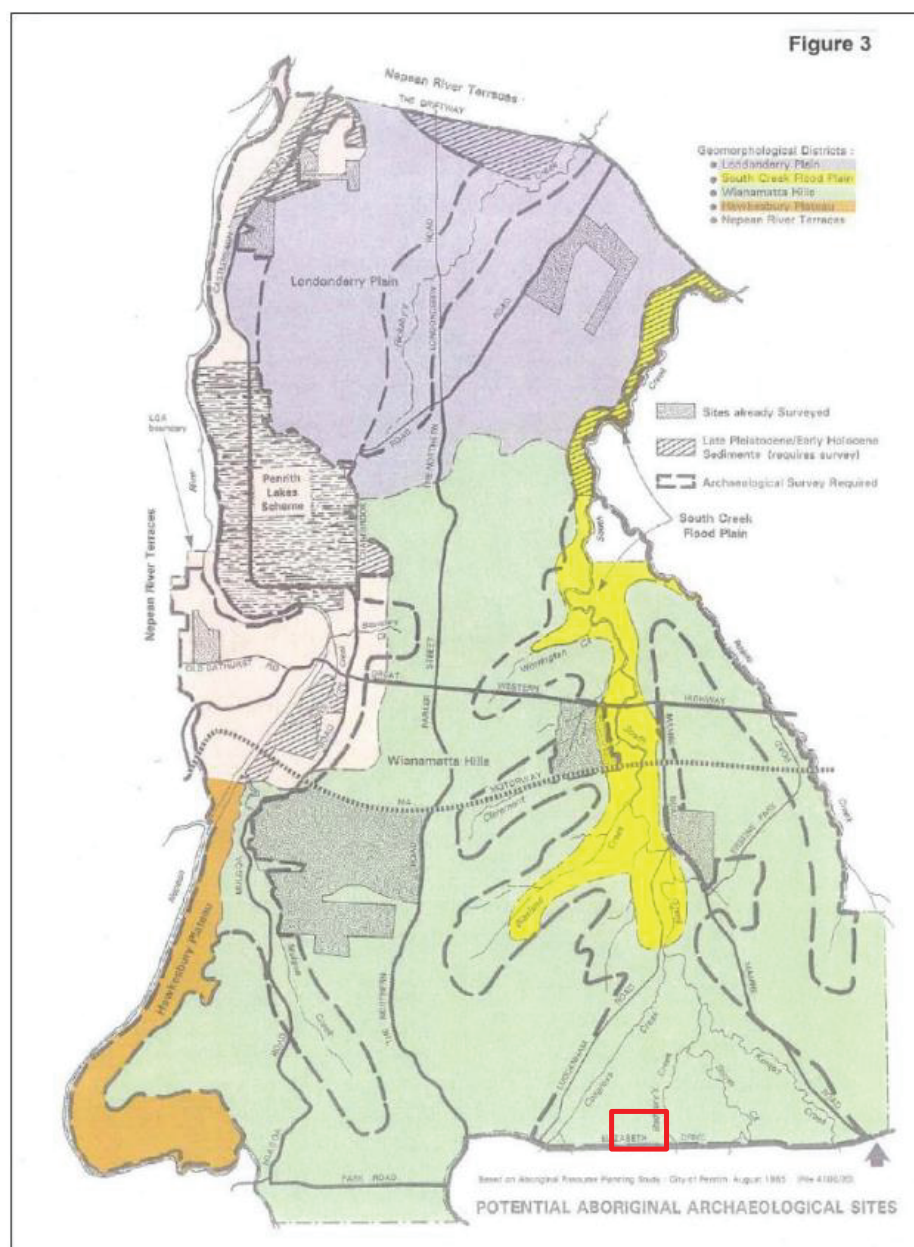


## Penrith DCP 2014

The Penrith DCP is a non-statutory supporting document that compliments the provisions in the Penrith LEP 2015. The objectives of the document in relation to Aboriginal heritage is to 'preserve items and sites of Aboriginal archaeological significance located within the city of Penrith.

The DCP includes a sensitivity map has been created to guide whether archaeological assessment is required to be undertaken as part of a development application. The sensitivity map is based on assessment undertaken for the Aboriginal Resource Planning study completed for identifies the lands surrounding South Creek and its tributaries as sensitive. This area of sensitivity includes the entirety of the current study area.

**Figure 4.3: Potentially sensitive landscapes (illustrated by dashed line) within the Penrith LGA current study area approximated in red**



## 4.4 Predictive model

Archaeological investigation across the Cumberland Plain has been comprehensive over the past 30 years, including survey, excavation and desktop analysis studies. This varied and intensive investigation has led to the development and continual refinement of a predictive model for Aboriginal occupation within the region.

The Cumberland Plain has been extensively studied due to the growth demand of the ever-increasing Sydney population. Regional studies have been done on the large Growth Centres of the North West and South West of the Cumberland Plain, west of Sydney Basin. White and McDonald (2010) have contributed to the debate over site prediction by discussing the nature of Aboriginal site distribution, interpreted through lithic analysis of excavated sites in the Rouse Hill Development Area (White and McDonald 2010). The Rouse Hill Development Area is located about 15 km north of the current study area, the watercourses in the development area (Caddies Creek and Second Ponds Creek) derive from the same source as South Creek, the Hawkesbury River, and are of a similar stream order. The Soil landscapes are also reflective of those in the current study area, South Creek Soil Landscape along the high order watercourses and associated remnant Blacktown Soil Landscape. The study gave rise to the commonly referred Stream Order Model which provides a sound basis for archaeological investigations in the Cumberland plain. The paper provides a spatial and distributive analysis of Aboriginal objects in relation to freshwater resources and along varying landform units. The findings of this study highlighted the relationship between proximity to freshwater and landscape with archaeological evidence of Aboriginal occupation. The study found that artefact densities were most likely to be greatest on terraces and lower slopes within 100 m of freshwater resources (White and McDonald 2010). The predictive model identified that ridgelines and crests located between drainage lines will contain archaeological evidence though usually representative of background scatter (White and McDonald 2010).

While White and McDonald's (2010) predictive model can be seen as an indicative model of the archaeology of the Cumberland Plain, a more recent study has been conducted by Godden Mackay and Logan (GML 2012) at the East Leppington Precinct approximately 11 km south of the current study area. The study utilised the Stream Order Model developed by White and McDonald (2010) in their investigations and three different and complementary models to explain their findings. The Stream Order Model is a regional based model and doesn't consider the small scale intra-landform variations that can affect the predictions of this model.

Owen and Cowie (2017) describe three other models that can be used to more accurately describe archaeological probability within the landscape. Economic Resource Model, Activity Overprinting Model and Domiciliary Spacing Model. The Economic Resource Model focuses on the resource zones, confluences of creeks are considered high resource zones due to the richness in flora and fauna. The model suggests that the evidence of Aboriginal activities will decrease with distance from these resource rich nodes. Activity Overprinting Model was used to explain the density of sites at increasing distances from the creek and Domiciliary Spacing Model was used to describe the features and spatial variation of a site.

In conjunction with these models, an understanding of the soil landscape and the nature and prevalence of cultural material within these contexts is important in the predictive model process. Deposits that contain cultural material are likely to exist within the Blacktown soil landscapes however, these are deposits are generally not stratified. Blacktown soils retrieve cultural material in A Horizon deposits which generally extend approximately 300 mm below the ground surface.

Alluvial deposits associated with the South Creek Soil landscape has the potential to support stratified archaeological deposits. These stratified deposits are most likely to exist within raised embankments where environmental forces, such as flash flooding, are less likely to have impacted

Aboriginal cultural material situated on the ground surface. The deposits may have a vertical distribution that parallels alluvial deposition over time. The NSW Soil and Land Information System produced a technical report outlining the results of a core sample taken within the south east portion of the current study area, along the alluvial flats of South Creek. The results show that the South Creek soils extends to a depth of three metres in this area, although the South Creek A horizon deposits are relatively shallow extending to 350 mm below the ground surface. Every predictive model has its limitations and constraints and should be used as a guiding factor for future investigation and be used as a bridging tool to further current understanding of the cultural environment.

Based on the recorded AHIMS sites, previous studies and the environmental context, predictions can be made on the type of Aboriginal archaeological evidence potentially present within the current study area. This evidence could be found in the form of certain site types:

- Open artefact scatters or isolated finds – this was the most common site feature from the AHIMS search and is the most prevalent source of evidence of Aboriginal occupation that has influenced the predictive models for many studies. The visibility of these sites is dependent on surface visibility and exposure and are affected by the nature of the soil landscape. The erosional nature of the Blacktown soils within the study areas suggest that possible deposits are susceptible to erosion, yet the depositional nature of permanent watercourses such as the South Creek soils gives rise to the probability of intact occupational records in the deep stratigraphic layers. Using the Stream Order Model and Economic Resource model we can assume there is a high likelihood for sites. Previous surveys within the wider area have identified that surface artefact sites will most likely occur downstream from main creek lines.
- Culturally modified scar trees – while extensive clearing occurred post-European contact these sites may occur in any pockets of mature native trees.
- Grinding grooves – these sites occur on sandstone outcroppings usually along waterways, swamps or water pans. The presence of these sites will be dependent on the availability of suitable sandstone sources. The underlying geology of the Soil Landscapes in the study area is the Wianamatta Group which contains the Minchinbury Sandstone, a fine to medium grained quartz Sandstone. The closest recorded AHIMS site to the current study area is recorded as a Grinding grooves approximately 100m north of the current study area.
- Sub-surface artefact sites – low density assemblies, primarily composed of silcrete will be associated with Crest landforms in the Badgerys Creek area.



## 5.0 ARCHAEOLOGICAL SURVEY

### 5.1 Aims

The aims of the archaeological survey were to:

- Cover a representative sample of the study area that will potentially be impacted by the proposed works
- Reinspect any previously registered sites
- Record any new Aboriginal objects or sites observed during the survey
- Identify areas of potential archaeological deposit (PAD) that may be present in areas that have had no or minimal disturbance
- Liaise with Deerubbin LALC regarding the proposed works and the archaeological potential of the study area
- Collect information to ascertain whether further archaeological investigation is required.

### 5.2 Timing and personnel

An archaeological survey was undertaken on 20 March 2019. The survey was supervised by Alyce Haast (Senior Heritage Consultant, Artefact Heritage) with Ryan Taddeucci (Senior Heritage Consultant, Artefact Heritage) and Steve Randall (Deerubbin LALC) in attendance.

### 5.3 Methodology and coverage

Survey methodology initially included the completion of a full coverage survey which was attempted within survey unit 1 (SU) 1. A single transect was completed along the northern edge of the SU by three people spaced 30 m apart. At the completion of the first transect it was observed that manicured grasses covered the majority of the SU and surface artefacts were unlikely to be identified within these areas.

Following the initial transect survey focus transitioned to a sample survey with areas of focus on sensitive landforms and areas of exposure. Waypoints were collected by a handheld, non-differential GPS to record landform features and areas of disturbance across the study area. Photographs were taken of landform units, as well as any identified Aboriginal objects or areas PAD.

## 5.4 Survey units

### 5.4.1 Survey unit 1

SU 1 is a 28.7 ha area located in the northeast corner of the study area and bordered along the east by South Creek. SU1 is predominantly comprised of a gentle slope landform which slopes towards South Creek in the east. The eastern portion of the SU is largely comprised alluvial flats associated with the South Creek floodplain. The western half of SU1 has been modified through a substantial level of imported fill which has created an artificial raised terrace. The raised terrace landform is distinct from the remainder of the flood plain by an earth batter located along the centre of the SU.

Two large soaks, one in the central north and one in the centre of SU1 were identified within SU1. Dense vegetation was encountered along the eastern edge of SU1, associated with South Creek.

The majority of the SU has been cleared of native vegetation and is currently comprised of open pasture. Remnant vegetation includes sporadic juvenile and mature trees and areas of invasive blackberry bushes. Exposures were limited to areas of erosion associated with vehicle tracks and areas frequented by grazing horses within the SU. Several exposed areas included surface gravels including silcrete cobbles suitable for the production of Aboriginal objects.

Three Aboriginal sites and one area of PAD were identified within SU1.

**Figure 5.1: Flat landform associated with South Creek flood plain**



**Figure 5.2: View of artificial terrace landform within SU1**



**Figure 5.3: Vegetation adjacent to South Creek within SU1**



**Figure 5.4: Soak feature located within SU1**



### 5.4.2 Survey unit 2

SU2 is a 12.1 hectare area located in the south east corner of the study area and bordered on the eastern side by South Creek. The survey unit includes alluvial flat landforms adjacent to South Creek as well as the lower reaches of two spur lines extending from the south western portion of the study area.

The SU includes two existing drainage lines which have been converted into two large dams across the centre of the survey unit. Evidence of former cropping was visible within the two spur lines with remnant plantings and ground furrows present in this area. Creation of the dams has involved the movement of soil to the east of each currently existing dam to create the existing dam walls. Former agricultural use across this portion of the SU is considered to have resulted in moderate level of disturbance within these areas.

The majority of the SU has been cleared of native vegetation and is currently comprised of open pasture. Remnant vegetation includes sporadic juvenile and mature trees largely located within the region surrounding the drainage lines and the remains of the former cropped species.

Exposures were limited to the areas surrounding the dams and exposed land associated with former agricultural furrows. Isolated fragments of ceramic and glass were noted within the northern spur line with remnant building materials stockpiled in the north western portion of the survey unit.

No Aboriginal sites were identified within this survey unit. One area of PAD was identified within SU 2

**Figure 5.5: Large dam located in eastern portion of SU2**



**Figure 5.7: Remains of former crop species**



**Figure 5.6: Spur landform showing regrowth trees surrounding existing drainage line**



**Figure 5.8: View of SU towards South Creek**





### 5.4.3 Survey unit 3

SU3 is a 16 hectare area located in the western portion of the study area. The survey unit includes a ridgeline feature which runs roughly north south along the SU and provides a significant outlook across the remainder of the study area including South Creek. The eastern portion of the SU includes the upper slope of the spur landforms leading towards South Creek.

Three large dams are located within the SU. With exception of the dam areas landforms within the SU appeared relatively intact with minor disturbances limited to a gravel road surface running east-west towards the central portion of the study area. Creation of the dam walls is considered to have resulted in high levels of disturbance in these areas.

While no evidence of agricultural use was noted during the site inspection, historical aerials have confirmed the former use of the survey unit for agricultural purposes

The majority of the SU has been cleared of native vegetation and is currently comprised of open pasture. Remnant vegetation includes sporadic juvenile and mature trees largely located surrounding the drainage lines. Exposures were limited to the areas surrounding the dams.

One Aboriginal site and one area of PAD was identified within SU3.

**Figure 5.9: Ridgeline within western portion of survey unit**



**Figure 5.10: Existing dam within the SU**



**Figure 5.11: Exposures surrounding the dams within the SU**



**Figure 5.12: Historical remains within the northern portion of the SU**



#### 5.4.4 Survey unit 4

SU4 is located within the central portion of the study area and includes a modern site compound located within a flat landform within the central portion of the study area.

The ground surface within this portion of the survey unit was obscured by an existing blue metal gravel compound area. Existing structures within this portion of the survey unit were largely comprised of demountable structures and sheds. Evidence of former structures were noted by the presence of a concrete building pad.

No Aboriginal sites or areas of PAD were identified within SU4.

**Figure 5.13: Remains of former building within blue metal gravel compound area**



**Figure 5.14: Demountable structures currently present within the study area**

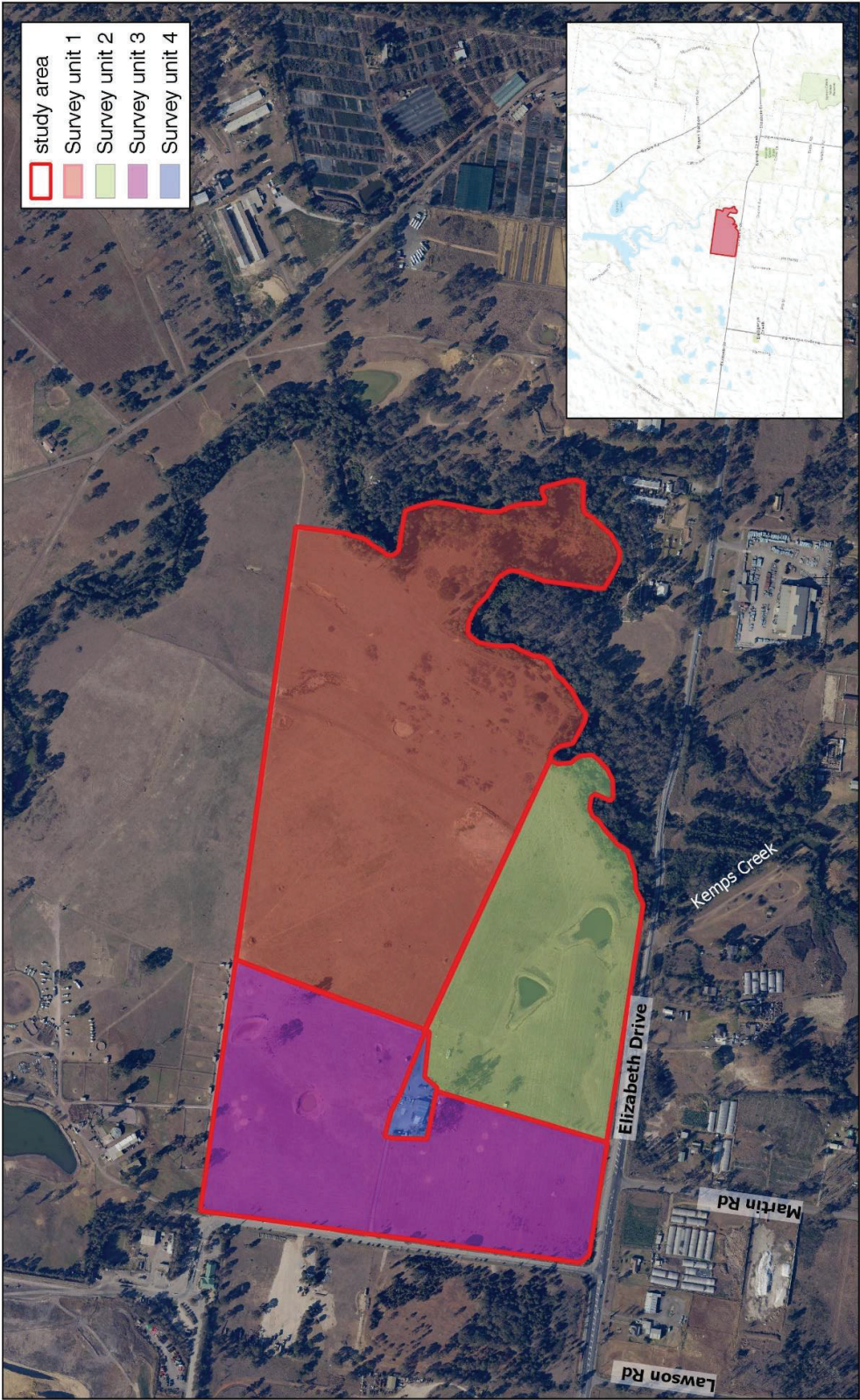


**Figure 5.15: Stockpile of metal sheeting remains**





Figure 5.16: Survey units





### 5.4.5 Survey Coverage

A summary of survey coverage, in accordance with the Code of Practice is outlined in Table 5.1 and Table 5.2.

**Table 5.1: Survey coverage summary - survey units**

Survey unit	Survey unit area (m <sup>2</sup> )	Landform	Visibility (%)	Exposure (%)	Effective coverage (m <sup>2</sup> )	Effective coverage (%)
1	286 799	Flat, Slope, Drainage Line	20	10	5735	2%
2	121 031	Flat, Slope, Drainage Line	20	20	4841	4%
3	160 447	Slope, Ridge,	20	5	1604	1%
4	6374	Flat	0	0	0	0%

**Table 5.2: Survey coverage summary - landforms**

Landform	Landform area (m <sup>2</sup> )	Area effectively surveyed (m <sup>2</sup> )	Percentage of landform effectively surveyed (%)	Number of sites	Number of PADs
Flat	169664	3541	2.08%	0	1
Slope	296009	6380	2.15%	4	1
Drainage Line	36642	1061	2.8%	0	0
Ridge	72336	723.4	1%	0	1

## 6.0 RESULTS

Summaries of areas of PAD identified during the survey and newly recorded Aboriginal sites within the study area are outlined below

### 6.1 Newly identified sites

#### 6.1.1 Elizabeth Precinct Artefact Scatter 01 (EPAS 01) (AHIMS ID 45-5-5233)

**Site type:** Artefact scatter

**Centroid:** MGA 94 Zone 56 293412mE 6249873 mN

**Site length:** 3 metres

**Site width:** 3 metres

Elizabeth Precinct Artefact Scatter 01 is located on a raised artificial terrace within an area of surface erosion resulting from animal grazing.

The site contains two artefacts including a single platform core fragment and a complete flake. Both artefacts are comprised of grey/ pink silcrete. The core measures 20mm long x 20mm wide x 21mm depth and contains a single flake scar. The complete flake measures 22mm long x 12mm wide x 4mm depth.

The site is considered to be in a disturbed context associated with imported fill. While it is considered likely that further archaeological material is present, it is considered unlikely to relate to an intact archaeological deposit.

**Figure 6.1: Silcrete artefacts identified at EPAS 01**



**Figure 6.2: Location of EPAS 01**



### 6.1.2 Elizabeth Precinct Isolated Find 01 (EPIS 01) (AHIMS ID 45-5-5232)

**Site type:** Isolated find

**Centroid:** MGA 94 Zone 56 293416mE 6249892mN

**Site length:** 0.5 metres

**Site width:** 0.5 metres

Elizabeth Precinct Isolated Find 01 is located on a raised artificial terrace within a surface erosion resulting from animal grazing.

The site contained one retouched utilised piece. The artefact is comprised of grey/ pink silcrete and measures 31mm long x 20mm wide x 8mm depth. The retouched plane measured 23mm.

The site is considered to be in a disturbed context associated with the import of fill. While it is considered likely that further archaeological material is present, it is considered unlikely to relate to an intact archaeological deposit.

**Figure 6.3: Silcrete artefact, EPIS 01**



**Figure 6.4: Location of EPIS 01**



### 6.1.3 Elizabeth Precinct Isolated Find 02 (EPIS 02) (AHIMS ID 45-5-5231)

**Site type:** Isolated find

**Centroid:** MGA 94 Zone 56 293466mE 6250004mN

**Site length:** 0.5 metres

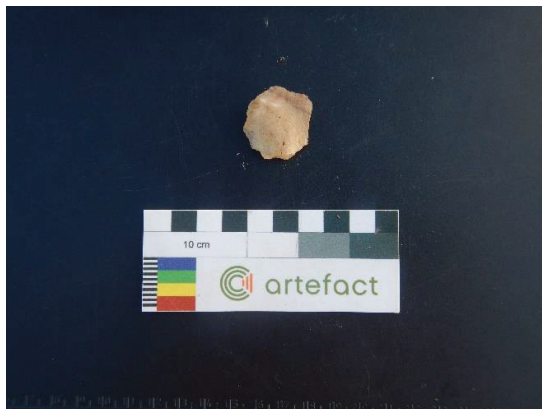
**Site width:** 0.5 metres

Elizabeth Precinct Isolated Find 02 is located on a raised artificial terrace within a surface erosion resulting from animal grazing.

The site contains one proximal flake fragment identified as a scraper. The artefact is comprised of grey chert and measures 23mm long x 25mm wide x 7mm depth. The artefact has been retouched along its right, left and proximal margins.

The site is considered to be in a disturbed context associated with imported fill. While it is considered likely that further archaeological material is present, it is considered unlikely to relate to an intact archaeological deposit.

**Figure 6.5: Chert artefact, EPIS 02**



**Figure 6.6: Location of EPIS 02**





#### 6.1.4 Elizabeth Precinct Isolated Find 03 (EPIS 03) (AHIMS ID 45-5-5230)

**Site type:** Isolated find

**Centroid:** MGA 94 Zone 56 293375 mE 6249980 mN

**Site length:** 0.5 metres

**Site width:** 0.5 metres

Elizabeth Precinct Isolated Find 03 is located within a sloped landform within a exposure associated with a dam wall. The site contains one single platform core. The artefact is comprised of red silcrete and measures 19mm long x 41mm wide x 47mm depth. The core contains one flake scar. The artefact is considered to be ex-situ given then location of the site within a dam wall.

**Figure 6.7: Silcrete core, EPIS 03**



**Figure 6.8: Location of EPIS 03 within dam wall**



## 6.2 Areas of archaeological potential

### 6.2.1 Elizabeth Precinct PAD 01 (AHIMS ID 45-5-5236)

**Site type:** PAD

**Centroid:** MGA 94 Zone 56 293094 mE 6249617 mN

**Site length:** 190 metres

**Site width:** 135 metres

Elizabeth Precinct PAD 01 is located within the south eastern portion of SU3, associated with a slightly raised crest landform associated with the wider ridgeline which runs along the western portion of SU3. The PAD provides a good vantage point over the surrounding landscape with spur lines directly connecting the ridgeline and the resources associated with South Creek.

Surface visibility across PAD 01 was generally low, due to dense grass cover. Observations during the site survey did not identify any significant areas of surface disturbance however historical aerials have identified that the PAD area was formally subject to agricultural cropping. The cropping is considered likely to have resulted in some level of vertical and horizontal displacement of potential archaeological remains however it is unlikely to have completely removed the archaeological remains.

**Figure 6.9: Southern portion of PAD 01, southern aspect**



**Figure 6.10: Northern portion of PAD 01, northern aspect**





### 6.2.2 Elizabeth Precinct PAD 02 (AHIMS ID 45-5-5235)

**Site type:** PAD

**Centroid:** MGA 94 Zone 56 293327 mE 6249529 mN

**Site length:** 170 metres

**Site width:** 110 metres

Elizabeth Precinct PAD 02 is located within the central portion of SU 2, associated with a spur landform located above the confluence of two drainage lines. Spur lines adjacent to first order water courses were identified as containing above average artefact densities during excavation of the adjacent conducted for the Western Sydney airport (Navin Officer Heritage Consultants 2016) in addition the landform is consistent with the landform identified by Brayshaw (1995) as containing archaeological potential.

Surface visibility across PAD 02 was generally low, due to dense grass cover. Observations during the site survey did not identify any significant areas of surface disturbance however historical aerials have identified that the PAD area was formally subject to agricultural cropping. The cropping is considered likely to have resulted in some level of vertical and horizontal displacement of potential archaeological remains however it is unlikely to have completely removed archaeological remains.

**Figure 6.11: PAD 02, western aspect**



**Figure 6.12: PAD 02, southern aspect**



### 6.2.3 Elizabeth Precinct PAD 03 (AHIMS ID 45-5-5234)

**Site type:** PAD

**Centroid:** MGA 94 Zone 56 293924 mE 6249724 mN

**Site length:** 465 metres

**Site width:** 250 metres

Elizabeth Precinct PAD 03 is located within SU1 associated with the alluvial flats/ flood plain directly adjacent to South Creek. The area of PAD was identified based on its proximity to South Creek with steep slopes associated with the creek bank discounted from the PAD extent.

While the area of PAD 03 is considered to be flood prone the area appears to be comprised of a relatively intact landform within 200m of South Creek.

**Figure 6.13: PAD 03, eastern aspect**

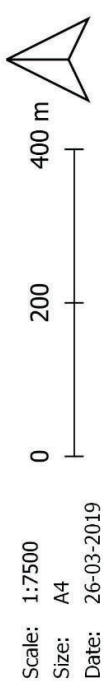
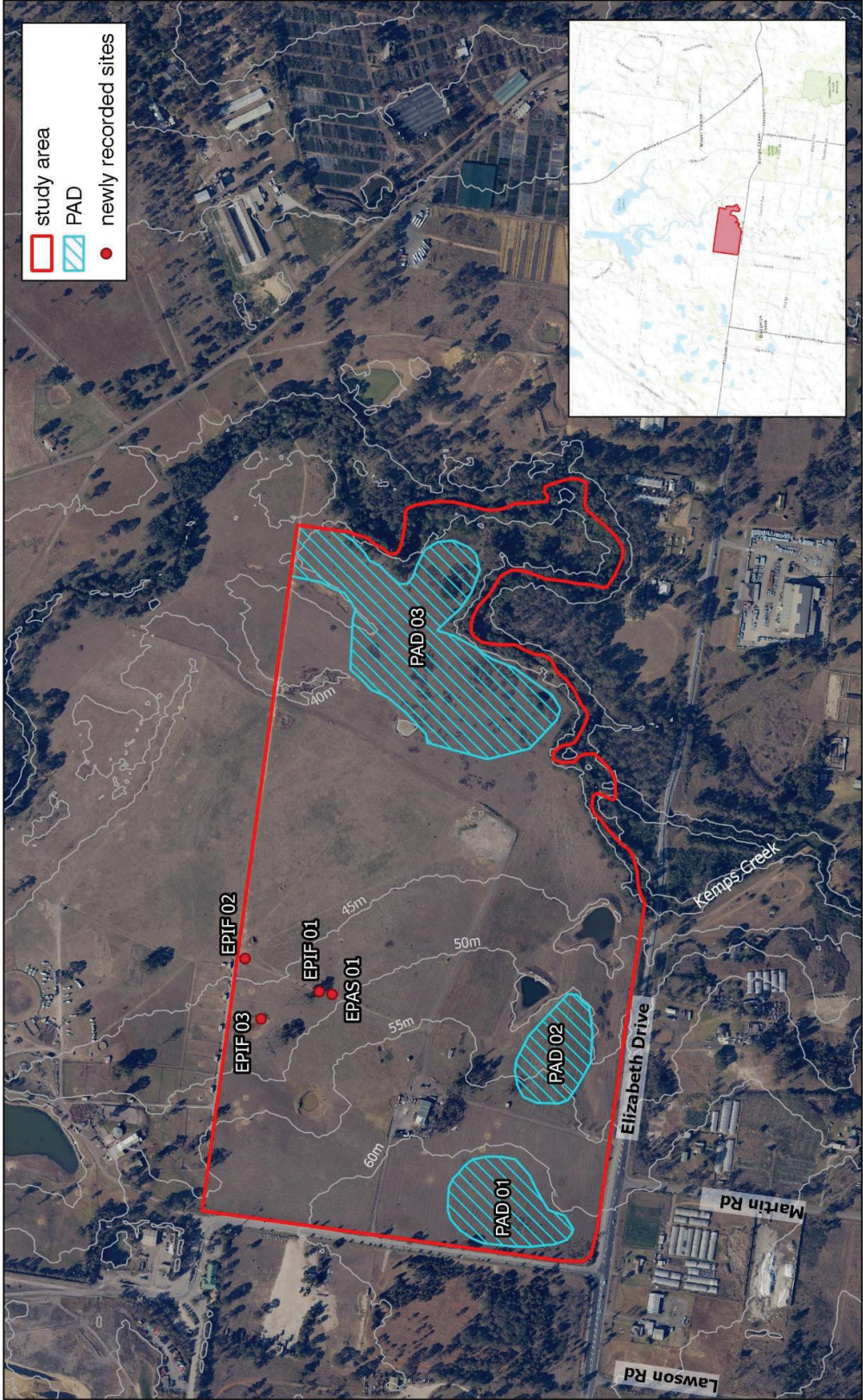


**Figure 6.14: PAD 03, southern aspect**





Figure 6.15: Survey results



**Survey results**  
**19024 Elizabeth Drive Enterprise Precinct**  
LGA: Penrith



## 7.0 ANALYSIS AND DISCUSSION

The study area is located within a transitional environment between the South Creek alluvial flats and the surrounding ridgelines. Landforms within the study area generally comprised of alluvial plains as well as ridgelines with several spur lines surrounded by drainage lines present within the study area. The eastern portion of the study area is located within 200m of South Creek.

Disturbance was most extensively noted through the introduction of fill across the central portion of SU1 which has created an artificial raised terrace across this portion of the landscape. Additional disturbances across the study area included land clearance, the creation of dams as well as the use of portions of the study area for agriculture. With exception of the creations of the dams these impacts are considered to have resulted in low to moderate levels of disturbance across the study area.

Overall, ground surface visibility was less than five per cent due to dense grass cover. Greater surface visibility would have allowed for a more in depth understanding of whether the study area was likely to contain Aboriginal objects beneath the ground surface.

Due to limited surface visibility, the survey team relied on background information, predictive statements and general observations to identify areas of PAD.

### 7.1 Identified Aboriginal sites

Four Aboriginal sites were identified during survey. All sites were located in disturbed contexts related to either dam construction or the import of fill within SU1. It is considered possible that artefacts located within the fill area were redeposited within the fill itself and subsequently these objects are considered to contain low scientific value. While further Aboriginal objects may have been imported within the fill context further investigation of this area of fill is considered to offer limited research potential.

### 7.2 Area of potential archaeological deposit

Areas of PAD were identified across three key landform contexts within the study area which were identified based on the potential for the site to represent varied and complimentary use of the study area by Aboriginal people.

The identified PADs included a raised crest associated with a broad ridgeline within the western portion of the study area (Elizabeth Precinct PAD 01). This area provided a substantial vantage point towards South Creek with easy access to the creek line through multiple spur lines. Further the ridgeline would have provided an access route to the south which leads towards further substantial ridgelines within the wider landscape.

The ridgeline is connected to South Creek by a number spur lines which have developed through erosional forces over time. The spur lines are divided by a number of drainage lines which have been dammed across the study area. Many of the spur lines have been subject to agriculture throughout the study areas farming history however this impact is not considered to have completely removed the archaeological potential in this area. Elizabeth Precinct PAD 02 is located within a central spur line located above the confluence of two drainage lines which would have formerly connected directly to South Creek. This area is considered to have subject to lower levels of disturbance than the surrounding spur lines. Adjacent excavations completed for the Western Sydney airport (Navin Officer Heritage Consultants 2016) identified spur lines adjacent to first order water courses as containing higher than average artefact yields.

The South Creek flood plain is comprised of a wide alluvial flat within the eastern portion of the study area. Elizabeth Precinct PAD 03 is comprised of much of the alluvial flat. Given its proximity to the South Creek, the alluvial flat is considered likely to have been favoured resource zone. Based on previous archaeological

investigations in the region, it is likely that areas of PAD closer to watercourses would have higher potential for subsurface archaeological deposit. Areas away from watercourses are likely to have lower archaeological potential. Although areas away from watercourses demonstrate lower archaeological potential, they may provide archaeological evidence for differing and perhaps less frequent land-use in those areas.

Overall the identification of PADs in different landform contexts and distances from nearby watercourses provides the opportunity through archaeological excavation for comparative analysis and further investigation of Aboriginal land-use practices.



## 8.0 SIGNIFICANCE ASSESSMENT

### 8.1 Significance assessment criteria

An assessment of the cultural heritage significance of an item or place is required in order to form the basis of its management. The Department of Planning, Industry and Environment provides guidelines for heritage assessment with reference to the Burra Charter (Australia ICOMOS 2013) and the Heritage Office (2001) guidelines in the Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW (OEH 2011). The Department of Planning, Industry and Environment requires consideration of the following:

- Research potential: does the evidence suggest any potential to contribute to an understanding of the area and/or region and/or state's natural and cultural history?
- Representativeness: how much variability (outside and/or inside the subject area) exists, what is already conserved, how much connectivity is there?
- Rarity: is the subject area important in demonstrating a distinctive way of life, custom, process, land-use, function or design no longer practised? Is it in danger of being lost or of exceptional interest?
- Education potential: does the subject area contain teaching sites or sites that might have teaching potential?

It is important to note that heritage significance is a dynamic value.

### 8.2 Archaeological significance assessment

A summary of the archaeological significance for Aboriginal sites within the study area is provided in Table 8.1

**Table 8.1 Summary of archaeological significance**

Site name/ AHIMS ID	Research potential	Representative value	Rarity	Education potential	Overall archaeological significance
Elizabeth Precinct Artefact Scatter 01	Low	Low	Low	Low	Low
Elizabeth Precinct Isolated Find 01	Low	Moderate	Moderate	Moderate	Moderate
Elizabeth Precinct Isolated Find 02	Low	Moderate	Moderate	Moderate	Moderate
Elizabeth Precinct Isolated Find 03	Low	Low	Low	Low	Low
Elizabeth Precinct PAD 01	Moderate	Unknown	Unknown	Unknown	Unknown
Elizabeth Precinct PAD 02	Moderate	Unknown	Unknown	Unknown	Unknown



Elizabeth Precinct PAD 03	Moderate	Unknown	Unknown	Unknown	Unknown
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### 8.2.1 Elizabeth Precinct Artefact Scatter 01 (AHIMS ID 45-5-5233)

EPAS 01 is comprised of an artefact scatter with two silcrete artefacts located within a surface exposure associated with animal grazing. The artefacts are comprised of one complete flake and one single platform core. The location of the artefact indicates that the artefact is located with an area of fill and is subsequently within a disturbed context which exhibits limited research potential. As a silcrete core and complete flake the artefacts are considered to be a common example of the artefact type in the region and therefore exhibit low rarity values. Given the relative lack of easily identified features the artefacts are not considered to be a good example of its type. The artefacts are therefore considered to exhibit low representative values and education potential when compared to the wider region.

### 8.2.2 Elizabeth Precinct Isolated Find 01 (AHIMS ID 45-5-5232)

EPIF 01 is comprised of an isolated silcrete artefact located within a surface exposure associated with animal grazing. The artefact is comprised of a retouched utilised piece which is considered to be moderately rare within the regional context and exhibit moderate representative values as an example of the artefact type. The artefact itself is also considered to demonstrate moderate education potential. The location of the artefact indicates that the artefact is located with an area which has been filled and is subsequently within a disturbed context which exhibits limited research potential. Given the disturbed context the artefacts research potential is considered to be limited to the value of the artefact itself and subsequently considered to be low on a regional scale.

### 8.2.3 Elizabeth Precinct Isolated Find 02 (AHIMS ID 45-5-5231)

EPIF 01 is comprised of an isolated chert artefact located within a vehicle track exposure. The artefact has been retouched along its right, left and proximal margins and identified as a scraper. The tertiary reduction of the artefact associated with the retouch identifies the object as requiring several steps in its production. It is considered to be moderately rare with the region and exhibit moderate representative values as an example of the artefact type. The artefact itself is also considered to demonstrate moderate education potential. The location of the artefact indicates that the artefact is located with an area which has been filled and is subsequently within a disturbed context which exhibits limited research potential.

### 8.2.4 Elizabeth Precinct Isolated Find 03 (AHIMS ID 45-5-5230)

EPIF 03 is comprised of an isolated silcrete artefact located within a dam wall. The location of the artefact indicates that the artefact is located in a disturbed context which exhibits limited research potential. As a silcrete core the artefact is considered to be a common example of the artefact type in the region and therefore exhibits low rarity values. Given the relative lack of easily identified features the artefact is not considered to be a good example of its type. The artefact is therefore considered to exhibit low representative values and education potential when compared to the wider region.

### 8.2.5 PADs

Each area of PAD identified within the study area is assessed as demonstrating unknown archaeological significance. This assessment is due to the fact that these features are located in areas with limited surface visibility and the nature, extent and significance cannot be determined within further investigation. Further investigation would include archaeological test excavation in accordance with the Code of Practice.

### 8.3 Cultural significance

A full assessment of cultural values is provided in the ACHAR for the project.

## 9.0 IMPACT ASSESSMENT

### 9.1 Proposed development

This proposal seeks approval for a Waste Disposal Facility at 1669-1732 Elizabeth Drive, Badgerys Creek, for the disposal of clean waste spoil material resulting from the construction of critical State Significant Infrastructure and building projects.

The site is zoned RU2 – Rural Landscape and E2 – Environmental Conservation noting works are occurring within the RU2 Rural Landscape zone only, under the Penrith LEP 2010.

The proposed development seeks approval for a Waste Disposal Facility including, though not limited to, the following:

- The demolition and removal of existing rural structures;
- Termination, connection or augmentation of services and utilities to the site;
- Dewatering and decommissioning of existing farm dams;
- Heritage salvage works, if required;
- Clearing of existing vegetation on the subject site;
- The importation, placement and compaction of clean waste spoil material as defined within the Fill Management Protocol supporting this application;
- Ancillary onsite earthworks associated with the waste disposal facility; and
- Construction of stormwater, erosion and sediment control systems.

It is understood that future development applications may seek approval to impact the E2- Environmental Conservation area. These works would be subject to separate assessment and approval.

**Figure 9.1: Volumes of cut and fill within Stage 1 (supplied by Mirvac Properties Pty Ltd)**

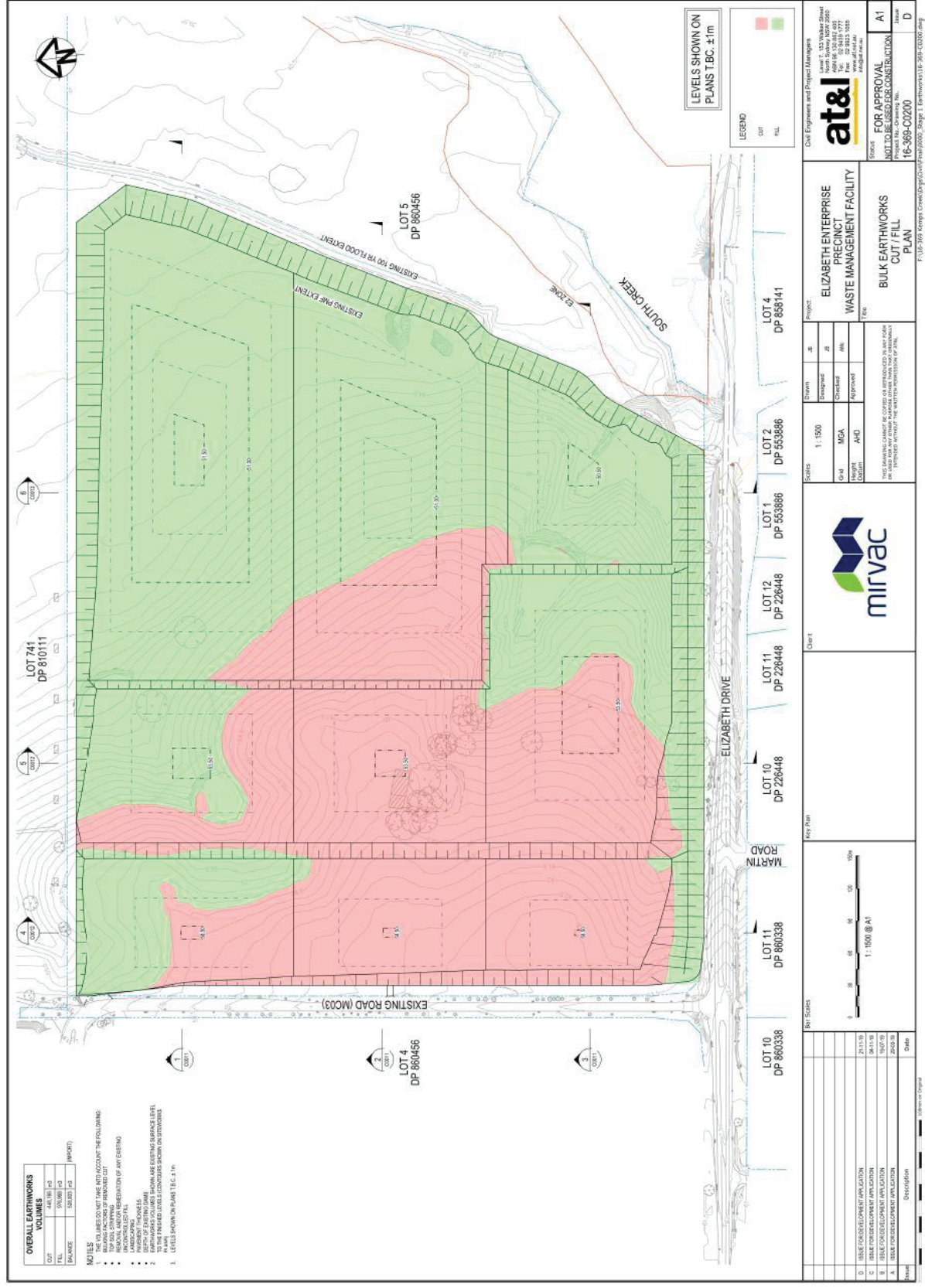
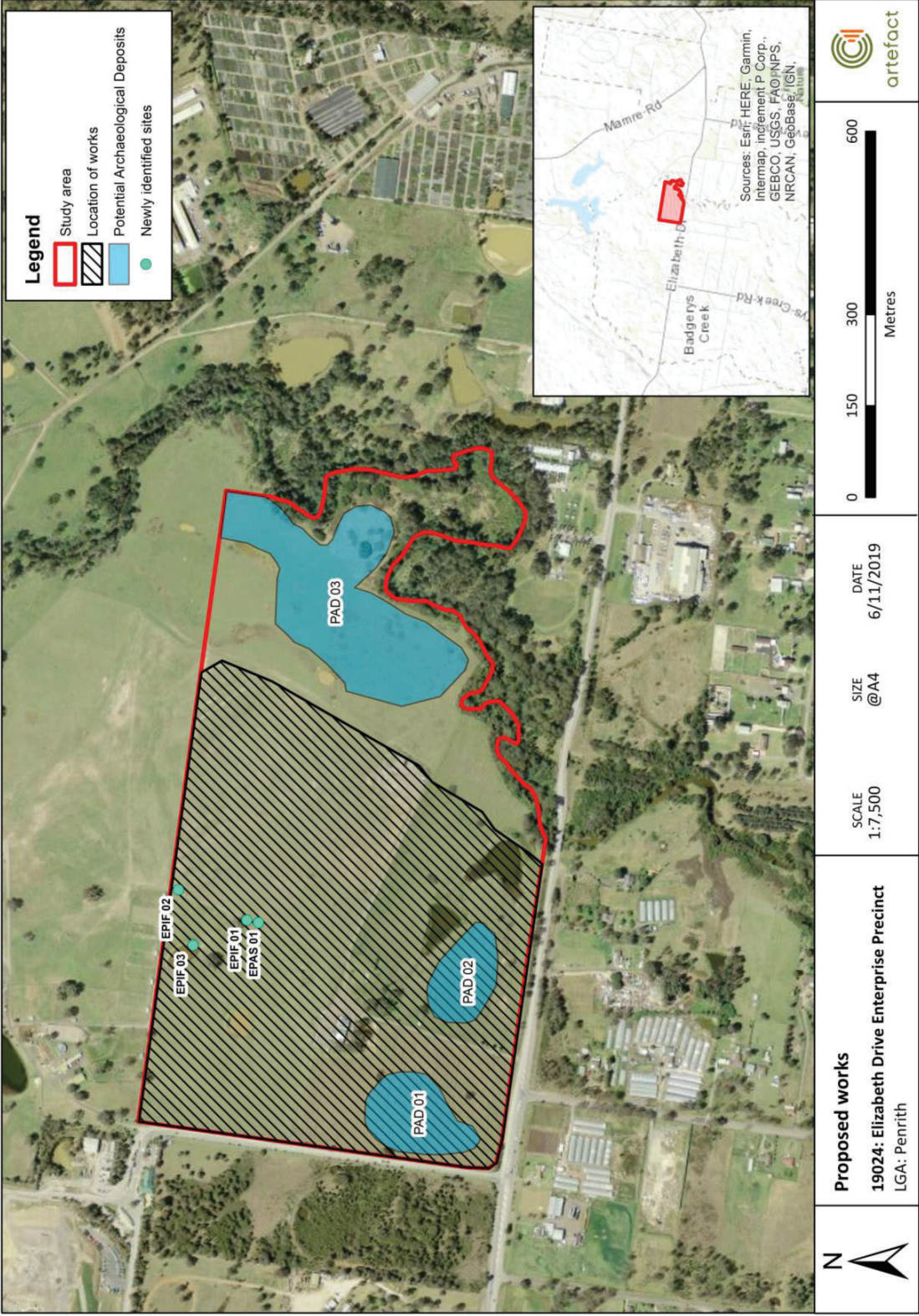




Figure 9.2: Proposed location of waste management facility in relation to identified Aboriginal sites and areas of archaeological potential (PAD)



## 9.2 Potential Aboriginal heritage impact

For the purpose of this impact assessment there is assumed to be direct impact to any site or PAD, or portion of a site or PAD within the area of the proposed waste management facility. Bulk earthworks associated with the waste management facility are not proposed for the portion of the study area within the 1:100 year flood zone which encompasses Elizabeth Precinct PAD 03. Both cut and fill activities are considered to result in potential impact to Aboriginal objects, with further refinement of the proposed methodology for works to be assessed in the ACHAR.

Present design does not include impacts to the land within the 1:100 year flood zone and subsequently no impacts are proposed to Elizabeth Precinct PAD 03.

A summary of identified impacts is outlined in Table 9.1

**Table 9.1: Summary of impacts**

Site name/ AHIMS ID	Type of harm	Degree of harm	Consequence of ham
Elizabeth Precinct Artefact Scatter 01	Direct	Total	Total loss of value
Elizabeth Precinct Isolated Find 01	Direct	Total	Total loss of value
Elizabeth Precinct Isolated Find 02	Direct	Total	Total loss of value
Elizabeth Precinct Isolated Find 03	Direct	Total	Total loss of value
Elizabeth Precinct PAD 01	Direct	Total	Total loss of value
Elizabeth Precinct PAD 02	Direct	Total	Total loss of value
Elizabeth Precinct PAD 03	None	None	No loss of value



## 10.0 MANAGEMENT MEASURES

### 10.1 Guiding principles

The overall guiding principle for cultural heritage management is that where possible Aboriginal sites should be conserved. If conservation is not practicable, measures should be taken to mitigate against impacts to Aboriginal sites.

The nature of the mitigation measures recommended is based on the assessed significance of the site or sites and the impact assessment.

#### 10.1.1 Comprehensive consultation

Further heritage investigation must include comprehensive consultation with Aboriginal stakeholders in accordance with the Aboriginal cultural heritage consultation requirements for proponents (DECCW 2010). This includes ongoing consultation in accordance with consultation requirements throughout the archaeological test excavation process, preparation of an ACHAR and when submitting AHIP application(s) to the Department of Planning, Industry and Environment.

#### 10.1.2 Test excavation

The archaeological significance of the areas of PAD within the study area is at present unknown and requires archaeological test excavation in accordance with the Code of Practice to provide further information on the nature and significance of that area.

Test excavation under the Code of Practice would be required in order to determine whether sub-surface Aboriginal objects are present. The purpose of these excavations would be to confirm the geographic extent of subsurface artefacts present, their significance and assist with the preparation of appropriate mitigation measures. Archaeological test excavation is not conducted to mitigate against impacts.

A separate test excavation methodology will be prepared and circulated to RAPs for a 28 day review and comment period. Test excavation would be limited to the impact footprint of the proposed waste management facility.

#### 10.1.3 AHIP application

As Aboriginal objects are present within the site an AHIP would be required prior to impacts. The application for an AHIP would require the completion of an ACHAR in accordance with the Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW (OEH 2011).

The preparation of an ACHAR would take place following completion of test excavation, and involve comprehensive Aboriginal stakeholder consultation, an assessment of Aboriginal cultural heritage values and significance for the site and an assessment of the potential harm to Aboriginal cultural heritage values that the proposed works may cause. Results from the current assessment and future test excavation reporting will be used as a basis of the assessment.

Mitigation measures for the proposed impact would be guided by assessment of significance undertaken during the development of an ACHAR. Mitigation measures will address potential impacts caused by the proposed development and may include mitigation measures such as:

- Salvage excavation
- Surface collection

- Redesign to minimise impact

## 11.0 RECOMMENDATIONS

The following recommendations were based on consideration of:

- Statutory requirements under the National Parks and Wildlife Act 1974.
- The requirements of the relevant guidelines: 'Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW' (OEH 2011), 'Code of practice for archaeological investigation of Aboriginal objects in New South Wales' (DECCW 2010) and 'Aboriginal cultural heritage consultation requirements for proponents' (DECCW 2010).
- The results of the background research, site survey and assessment.
- The likely impacts of the proposed bulk earthworks and potential future use of the site

It was found that

- Four Aboriginal sites area located within the study area
- Three areas of archaeological potential have been identified within the study area
- All recorded surface sites have been assessed as being subject to total impacts by the proposed works
- Elizabeth Precinct PAD01 and Elizabeth Precinct PAD02 has been assessed as being subject to total impacts by the proposed works
- Elizabeth Precinct PAD03 will not be impacted by the proposed works

Based on the results of this assessment and statutory requirements set out under the Act, the following recommendations are made:

- Archaeological test excavation should be conducted within those portions of Elizabeth Precinct PAD01 and Elizabeth Precinct PAD02 that will be impacted by proposed waste management facility Development Application.
- Elizabeth Precinct PAD03 is outside of the proposed impacts of the waste management facility. If design changes indicate impact to Elizabeth Precinct PAD03, test excavation must be undertaken within Elizabeth Precinct PAD03.
- Archaeological test excavation must be undertaken in accordance with the Code of Practice. Archaeological test excavation will be undertaken in order to confirm the presence and geographic extent of subsurface Aboriginal objects and assess their significance to inform further recommendations.
- Detailed design should consider minimising impacts on known Aboriginal sites and areas of PAD. An updated impact assessment will be part of the ACHAR following refinement of the proposed cut and fill methodology and clarification of potential impacts to Aboriginal objects.
- Comprehensive Aboriginal stakeholder consultation, carried out in accordance with the 'Aboriginal cultural heritage consultation requirements for proponents' (DECCW 2010), must be conducted for the project.

- An application for an area based AHIP that covers the area of the proposed waste management facility should be submitted to the Department of Planning, Industry and Environment following completion of test excavation and preparation of an ACHAR.
- The ACHAR would outline recommended mitigation measures for inclusion as conditions in the AHIP. Mitigation measures would be conducted following issuance of the AHIP and prior to commencement of construction.
- Aboriginal objects must not be impacted unless an AHIP permitting impact has been issued by the Department of Planning, Industry and Environment.

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### Appendix 3: Elizabeth Enterprise Precinct Stage 1, ATER, Artefact Heritage (2020a)



# Elizabeth Enterprise Precinct Stage 1

Archaeological Test Excavation  
Report

Report to Mirvac Projects Pty Ltd

Penrith Local Government Area

June 2020



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## EXECUTIVE SUMMARY

Mirvac Projects Pty Ltd (Mirvac) are proposing to develop a Waste Disposal Facility at 1669 – 1732 Elizabeth Drive, Badgerys Creek, for the disposal of clean waste spoil material resulting from the construction of nearby Critical State Significant Infrastructure (CSSI) and building projects. The proponent is seeking approval for the proposed works through a Development Application (DA) to Penrith City Council.

Artefact Heritage (Artefact) were engaged by Mirvac to prepare an Aboriginal Archaeological Survey Report (ASR) which identified Aboriginal sites and areas of Potential Archaeological Deposit (PAD). The ASR recommended that test excavation should be undertaken in accordance with the 'Code of Practice for Archaeological Investigation of Aboriginal objects in NSW' (Code of Practice) within the PAD areas that will be impacted by the proposed works.

Test excavation undertaken in accordance with the Code of Practice was completed within the study area between 17 February and 6 March 2020. This Archaeological Test Excavation Report (ATER) outlines the results of the test excavation program. This test excavation report has been prepared in conjunction with an Aboriginal Cultural Heritage Assessment Report (ACHAR), in support of an Aboriginal Heritage Impact Permit (AHIP) being sought from the Department of Planning, Industry and Environment (DPIE) for approval to impact identified Aboriginal sites for the proposed works.

### Overview of findings

The program of Aboriginal archaeological test excavation was conducted under the Code of Practice at the Elizabeth Precinct site. A total of 88 0.5 m x 0.5 m test pits were excavated across two areas of PAD. The test excavation identified:

- 89 sub-surface Aboriginal artefacts recovered from 23 artefact-bearing test pits
- One high artefact density test pit recovered 48 Aboriginal stone artefacts
- Two test pits recovered Aboriginal glass artefacts, indicating post-1788 Aboriginal use of the site

The following new sites were identified during the test excavation program:

- One new subsurface site, EP AS 02 (AHIMS ID 45-5-5236) was identified during subsurface testing. EP AS 02 (AHIMS ID 45-5-5236) was identified as a low-density artefact scatter with two discrete areas of artefact concentration of high significance
- Two newly recorded surface sites (EP IF 04 (AHIMS ID 45-5-5331) and EP IF 05 (AHIMS ID 45-5-5330) were identified during the survey. These isolated finds are of low significance
- These sites would be impacted by proposed construction works for the Elizabeth Drive waste facility project.

## Recommendations

- An ACHAR should be prepared to support an AHIP application to DPIE for impacts to Aboriginal sites for the Elizabeth Drive waste facility project. Aboriginal sites that would be impacted include the following sites identified during the ASR and Aboriginal archaeological test excavation program:
  - Elizabeth Precinct Artefact Scatter 01 (EP AS 01) (AHIMS ID 45-5-5233)
  - Elizabeth Precinct Artefact Scatter 02 (EP AS 02) (AHIMS ID 45-5-5236)
  - Elizabeth Precinct Isolated Find 01 (EP IF 01) (AHIMS ID 45-5-5232)
  - Elizabeth Precinct Isolated Find 02 (EP IF 02) (AHIMS ID 45-5-5231)
  - Elizabeth Precinct Isolated Find 03 (EP IF 03) (AHIMS ID 45-5-5230)
  - Elizabeth Precinct Isolated Find 04 (EP IF 04) (AHIMS ID 45-5-5331)
  - Elizabeth Precinct Isolated Find 05 (EP IF 05) (AHIMS ID 45-5-5330)
- Salvage excavation must be conducted in accordance with the salvage excavation methodology outlined in the ACHAR, as a condition of the AHIP and should focus on the two areas of artefact concentration within the EP AS 02 (AHIMS ID 45-5-5236) site identified in this ATER report
- Following completion of archaeological investigation, analysis and reporting, artefacts retrieved from the test excavation should be reburied in accordance with the reburial methodology provided in the ACHAR



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## 1.0 INTRODUCTION

### 1.1 Project overview

Mirvac are proposing to develop a Waste Disposal Facility at 1669 – 1732 Elizabeth Drive, Badgerys Creek, for the disposal of clean waste spoil material resulting from the construction of nearby CSSI and building projects. The proponent is seeking approval for the proposed works through a DA to Penrith City Council.

Artefact were engaged by Mirvac to prepare an Aboriginal ASR which identified Aboriginal sites and areas of PAD. The ASR recommended that test excavation should be undertaken in accordance with the 'Code of Practice within the PAD areas that will be impacted by the proposed works.

Test excavation undertaken in accordance with the Code of Practice was completed within the study area between 17 February and 6 March 2020. This ATER report outlines the results of the test excavation program. This test excavation report has been prepared in conjunction with an ACHAR in support of an AHIP being sought from DPIE for approval to impact identified Aboriginal sites for the proposed works.

### 1.2 Study area

The study area is comprised of 1669-1723 Elizabeth Drive, Badgerys Creek (Lot 5 DP 860456), a 54.41 hectare (ha) rural property as shown in Figure 1.

The study area is within the Penrith Local Government Area (LGA) and the Western Sydney Priority Growth Area. The study area is located within the boundaries of Deerubbin Local Aboriginal Land Council (LALC), in the parish of Claremont within the county of Cumberland.

### 1.3 Project assessment framework

The archaeological test excavation and assessment was conducted in accordance with the following approvals and guidelines:

- Aboriginal cultural heritage consultation requirements for proponents 2010 (Consultation Requirements) (Department of Environment, Climate Change & Water [DECCW] 2010a).
- Code of Practice for Archaeological Investigation of Aboriginal objects in New South Wales (Code of Practice) (DECCW 2010b).
- The guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW (the Guide) (Office of Environment & Heritage [OEH] 2011).

### 1.4 Report authorship

This report was prepared by Alyce Haast (Senior Heritage Consultant, Artefact Heritage) and Anna Darby (Heritage Consultant, Artefact Heritage) with artefact analysis completed by Ryan Taddeucci (Senior Heritage Consultant, Artefact Heritage). Management input and review was provided by Duncan Jones (Principal, Artefact Heritage) and Sandra Wallace (Director, Artefact Heritage).

Table 1 outlines the full list of contributors and their role in the completion of this report.

**Table 1: List of contributors**

Contributor	Task	Qualification	Position	Experience
Duncan Jones	<ul style="list-style-type: none"><li>• Management input and technical review of this document</li></ul>	<ul style="list-style-type: none"><li>• Bachelor of Arts (Hon)</li></ul>	Principal, Artefact Heritage	12 years
Alyce Haast	<ul style="list-style-type: none"><li>• Preparation of this report</li></ul>	<ul style="list-style-type: none"><li>• Master of Professional Archaeology</li></ul>	Senior Heritage Consultant	5 years
Anna Darby	<ul style="list-style-type: none"><li>• Preparation of this report</li></ul>	<ul style="list-style-type: none"><li>• Bachelor of Science (Hons)</li></ul>	Heritage Consultant, Artefact Heritage	3 years
Ryan Taddeucci	<ul style="list-style-type: none"><li>• Artefact analysis</li></ul>	<ul style="list-style-type: none"><li>• Bachelor of Arts (Hons)</li></ul>	Senior Heritage Consultant, Artefact Heritage	8 years

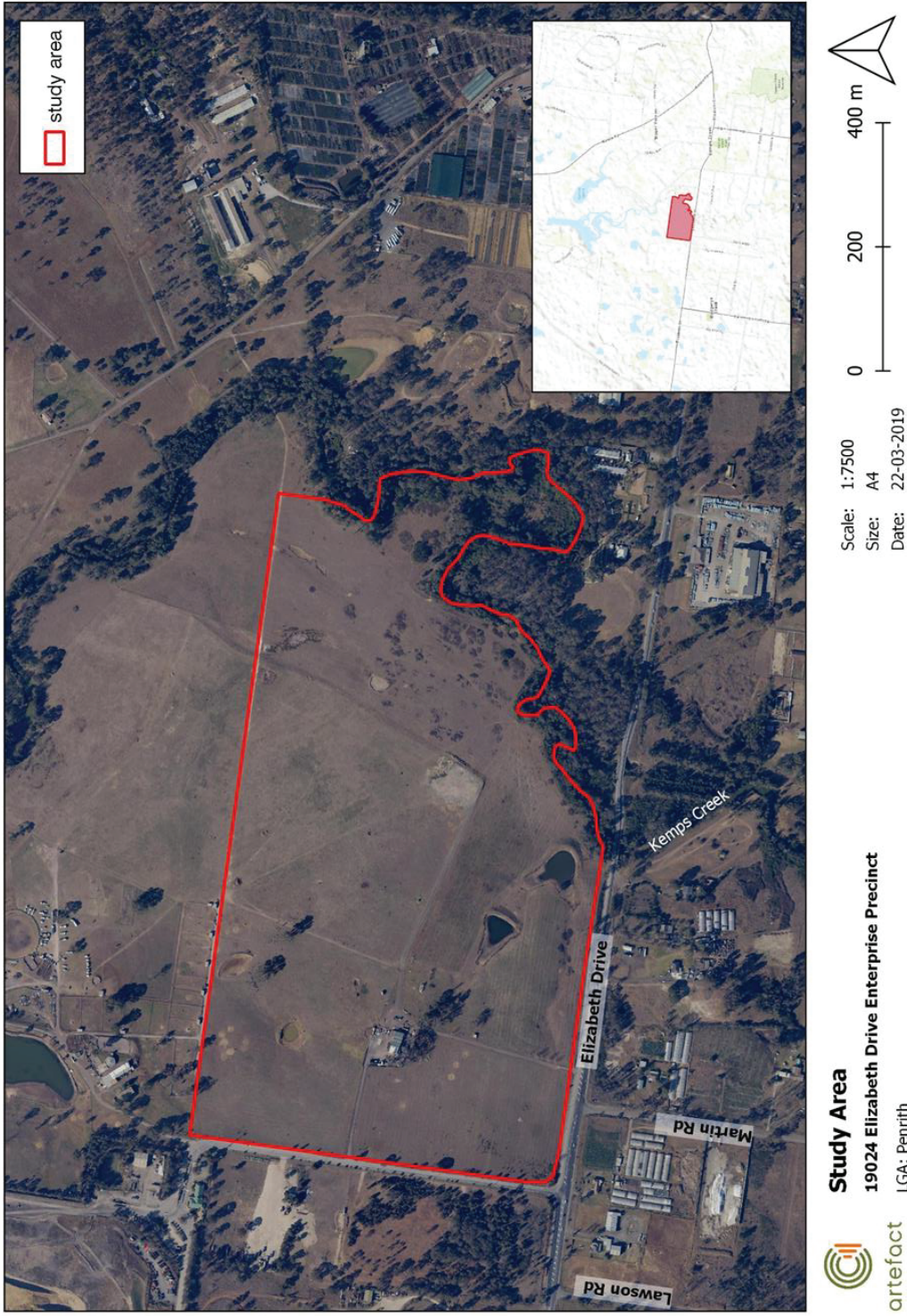
## 1.5 Consultation

Consultation was conducted in accordance with the Consultation Requirements. The consultation process resulted in 19 registrations of interest from Aboriginal persons or organisations. Comprehensive consultation information is provided in the associated ACHAR for this project (Artefact Heritage 2020b).

Section 3.0 provides a full list of those Registered Aboriginal Parties (RAPs) that participated in the test excavation program.



Figure 1: Study area



## 2.0 STATUTORY REQUIREMENTS

### 2.1 National Parks and Wildlife Act 1974

The *National Parks & Wildlife Act 1974* (the NP&W Act) provides statutory protection for all Aboriginal 'objects' (consisting of any material evidence of the Aboriginal occupation of NSW) and for 'Aboriginal Places' (areas of cultural significance to the Aboriginal community).

Aboriginal objects are afforded automatic statutory protection in NSW whereby it is an offence to:

---

*'damage, deface or destroy Aboriginal sites without the prior consent of the Director-General of the National Parks and Wildlife Service (now the Department of Planning, Industry and the Environment (DPIE))'.*

---

Section 83 of the NP&W Act defines an Aboriginal 'object' as:

---

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

---

The protection provided to Aboriginal objects applies irrespective of the level of their significance or issues of land tenure. However, areas are only gazetted as Aboriginal Places if the Minister is satisfied that sufficient evidence exists to demonstrate that the location was or is, of special significance to Aboriginal culture.

The NP&W Act was amended in 2010 and as a result, the legislative structure for seeking permission to impact on heritage items has changed. A Section 90 permit is now the only AHIP available and is granted by the DPIE. Various factors are considered by the DPIE in the AHIP application process, such as site significance, Aboriginal consultation requirements, Ecologically Sustainable Development (ESD) principles, project justification and consideration of alternatives. The penalties and fines for damaging or defacing an Aboriginal object have also increased.

There are no gazetted Aboriginal Places in the study area. There are seven sites registered on the Aboriginal Heritage Information Management Systems (AHIMS) within the study area.

#### 2.1.1 Code of Practice for Archaeological Investigation of Aboriginal objects in NSW

Archaeological test excavation was conducted in accordance with the Code of Practice. The Code of Practice prescribes requirements for archaeological test excavation and outlines the amount of excavation allowed in a particular area, the size of excavation units, and the way in which they must be excavated.

Requirements 14 - 17 of the Code of Practice identifies processes that must be undertaken prior to and during a test excavation that is to be conducted under the Code of Practice. This includes the following requirements:

- Requirement 14 – Test excavation which is not excluded from the definition of harm
- Requirement 15 – Preconditions to carrying out test excavation
- Requirement 16 – Test excavation that can be carried out in accordance with the code

- Requirement 17 – When to stop test excavation

Test excavation in accordance with the Code of Practice is excluded from the definition of harm under the NP&W Act.

## 3.0 ABORIGINAL STAKEHOLDER CONSULTATION

### 3.1 Project stakeholder consultation

In accordance with the Consultation Requirements, Artefact Heritage corresponded with the following organisations by letter seeking to identify Aboriginal stakeholder groups or people who may wish to be consulted about the project:

- Office of Environment and Heritage, Parramatta (now DPIE)
- Deerubbin LALC
- The Registrar, Aboriginal Land Rights Act 1983
- National Native Title Tribunal
- NTSCORP
- Penrith City Council
- Greater Sydney Local Land Services

Letters were sent to all Aboriginal persons or organisations identified through responses from the agencies listed above. The letters provided details about the location and nature of the proposal, as well as an invitation to register as an Aboriginal stakeholder.

An advertisement was placed in the Liverpool Leader and Koori Mail in the 24 April 2019 edition. The advertisement invited all Aboriginal persons and organisations who hold cultural knowledge relevant to determining the significance of Aboriginal objects and places in the study area to register their interest.

The following Aboriginal stakeholders registered an interest in the project:

- |                                                  |                                                  |
|--------------------------------------------------|--------------------------------------------------|
| • Amanda Hickey Cultural Services                | • Cubbitch Barta Native Title Claimants          |
| • Murra Bidgee Mullangari Aboriginal Corporation | • Barraby Cultural Servies                       |
| • Butucarbin Aboriginal Corporation              | • Yurrandaali Cultural Servies                   |
| • Didge Ngunawal Clan                            | • Yulay Cultural Services                        |
| • Darug Aboriginal Land Care                     | • Kawul Cultural Services                        |
| • Merrigarn                                      | • Wurrumay Cultural Services                     |
| • Yulay Cultural Services                        | • Goobah                                         |
| • Woronora Plateau Gundagara Elders Council      | • Cullendulla                                    |
| • Darug Custodian Aboriginal Corporation         | • Biamanga                                       |
| • A1 Indigenous Services                         | • Murramarang                                    |
| • Widescope                                      | • Darug Aboriginal Cultural Heritage Assessments |
| • Darug Land Observations                        | • Deerubbin LALC                                 |
| • Barking Owl Aboriginal Corporation             |                                                  |
| • Widescope                                      |                                                  |
| • BH Heritage Consultants                        |                                                  |

### 3.2 Review of draft ACHAR methodology and test excavation methodology

The draft test excavation methodology was issued to RAPs on 4 November 2019 with comments requested by 2 December 2019. The draft ACHAR methodology was issued to RAPs on 8 November 2019 with comments requested by 9 December 2019.

Comments were received from 10 RAP groups regarding the test excavation or ACHAR methodology. All comments were in general supportive of the proposed test excavation and assessment methodology.

Additional comments relevant to the test excavation methodology are summarised below:

**Table 2: Summary of RAP review comments**

Person/RAP group	Comment	Artefact response
Justine Coplin/ Darug Custodian Aboriginal Corporation	Requested that surface collection form part of the methodology	Surface collection cannot be undertaken during test excavation under the Code of Practice.  This comment will be noted for inclusion in the ACHAR report and may be recommended as a mitigation measure
Glenda Chalker/ Cubbitch Barta Native Title Claimants	Requested that all material is wet sieved  Noted that historic homesteads were often located within Aboriginal camp sites	It is anticipated that all material excavated will be wet sieved  The area proposed to be subject to non-Aboriginal excavation has not been identified as an area of Aboriginal archaeological potential. An unexpected finds policy has been incorporated into the Non-Aboriginal testing program in the event that Aboriginal objects are recovered from test excavation.

### 3.3 Participation in test excavation

From 28 January 2020, invitations to participate in fieldwork were sent out to several RAP groups who had provided feedback during the initial stages of the consultation process. Table 3 identifies the RAP representatives who participated in the test excavations.

**Table 3: RAP representatives participating in test excavations**

Personnel	Organisation
Ian Davies	Barraby Cultural Services
Arika Jalomaki	Wurrumay Pty Ltd
Adam King	Didge Ngunawal Clan
Mark Dutton	Goobah
Amanda Hickey	Amanda Hickey Cultural Services
Brayden McDougall	A1 Indigenous Services
Steven Knight	Deerubbin LALC
Shelley Weldon	Deerubbin LALC
Lana Wedgewood	Darug Custodian Aboriginal Corporation
Tylah Blunden	Darug Custodian Aboriginal Corporation
Rebecca Chalker	Cubbitch Barta Native Title Claimants Aboriginal Corporation
Daniel Chalker	Cubbitch Barta Native Title Claimants Aboriginal Corporation



## 4.0 ENVIRONMENTAL BACKGROUND

### 4.1 Geology and soils

The study area is located within the central portion of the Cumberland Plain, a large low-lying and gently undulating landform in the Sydney Basin. The formation of the basin began between 300 to 250 million years ago when river deltas gradually replaced the ocean that had extended as far west as Lithgow (Pickett and Alder 1997). The oldest, Permian layers of the Sydney Basin consist of marine, alluvial and deltaic deposits that include shales and mudstone overlain by Coal Measures.

The geology of the area is characterised by the Triassic Wianamatta group which consists of black to dark grey shale and laminate on top of Medium to coarse-grained quartz sandstone, very minor shale and laminate. The landform of the study area is the result of local bedrock weathering. The underlying geology is the Hawkesbury Sandstone that was laid down as river sediments and is described as medium to coarse grained quartz sandstone, this is overlain by the finer sedimentary material caps of Ashfield Shale.

The eastern section of the study area associated with the South Creek floodplain contains the South Creek fluvial soil landscape. This landscape usually contains floodplains, valley flats and drainage depressions of the channels on the Cumberland Plain. The soils are often very deep layered sediments over bedrock or relict soils. Plastic clays or structured loams occur in and immediately adjacent to drainage lines. Red and yellow podzolic soils are most common on terraces with small areas of structured grey clays, leached clay and yellow solodic soils (Bannerman & Hazelton 1990).

The central and western portions of the study area are comprised of the Blacktown residual soil landscape which has shallow to moderately deep hard setting mottled texture contrast soils, red and brown podzolic soils on crests grading to yellow podzolic soils on lower slopes and in drainage lines. These nutrient-poor soils are highly erodible and hence are susceptible to disturbance.

A small section of the study area (southwest) is comprised of the Berkshire Park alluvial soils. This landscape is the result of three depositional phases of Tertiary alluvial/colluvial origin. The lowest deposit is the St Marys formation, overlain by the Rickabys Creek gravel formation which is of varying thickness and, in turn, is topped by the Londonderry Clay formation. All of these formations are derived from sandstone and clay. Erosion of the surface has led to exposure of all three formations in different locations. The soils of Berkshire Park are weakly pedal orange heavy clays and clayey sands, which are often mottled, ironstone nodules are also common. Large silcrete boulders occur in sand/clay matrix Solods, usually on flats and in small drainage lines. Lower in the landscape where drainage conditions are poor, thin layers of dark brown sandy loams and brown a-pedal sandy clay loams are the surface material. Sand may occur in splays or as slugs of sediment within drainage lines. Laterite is often exposed at or near the surface in drainage lines or on crests.

### 4.2 Hydrology and vegetation

The study area is located within the Upper South Creek catchment associated with undulating hills and larger drainage lines which all flow to one main channel where alluvial sands and gravels derived from the surrounding rocks are present along current streams. The study area is bordered by South Creek in the east with several lower order ephemeral drainage lines across the study area feeding directly into the creek line. Ephemeral drainage lines in the southern portion of the study area have been dammed during the historical use of the property. Several additional high order creek lines are located within the vicinity of the study area including Badgerys Creek approximately 400 m west of the study area and Kemps Creek approximately 2.1 km east.

The vegetation in the study area has been impacted by urban development and land management practises. The study area would have once been covered by open Cumberland Plain Woodland, which is typical of the Wianamatta Group shale geology. Tree species would have included Forest Red Gum (*Eucalyptus tereticornis*), Sydney Blue Gum (*E. saligna*) and Grey Box (*E. moluccana*). The understory would likely have consisted of grass species, including spear grass, and shrub species such as blackthorn. The areas along South Creek have been frequently inundated as reflected by the vegetation. Common tree species include *Angophora subvelutina* (broad-leaved apple), *Eucalyptus amplifolia* (cabbage gum) and *Casuarina glauca* (swamp oak). Still water species such as *Eleocharis sphacelata* (tall spike rush), *Juncus usitatus* and *Polygonum* spp. occur where channels are silted up. On more elevated streambanks a tall shrubland of *Melaleuca* spp. (paperbarks) and *Leptospermum* spp. (tea trees) may occur. However much of this soil landscape has been previously cleared and is now dominated by exotic species such as *Rubus vulgaris* (blackberry) and other weeds.

### 4.3 Historical background and land use

The historical period in New South Wales began with European land settlement in 1788 when Governor Philip claimed possession of the land now known as Australia, on behalf of the British Government. The documentary evidence relating to this period helps us to better understand the patterning of European settlement and to contextualise its material remains.

Elizabeth Drive dates from the early 1800s and was originally constructed as a 'corduroy' road, using round logs as a base. It was established to provide access to the areas' land grants and was originally known as the Orphan School Road as it extended west from the Orphan School in what is now Bonnyrigg. Its name was later changed to Mulgoa Road, in reference to its western extent, but subsequently changed again in 1952 to honour the visit of Queen Elizabeth II.

In 1809 James Badgery was granted 840 acres, which was revised to 640 following Macquarie's cancellation of the original grant and re-issuance of the grant in 1812. The grant lies between Badgerys Creek and South Creek, north of Elizabeth Drive. He built the homestead and named the property Exeter Farm after the place in England near where he was born.

The European settlement at Exeter Farm resulted in the eviction of Aboriginal people within Badgerys lands although there is no reported evidence to suggest that this involved bloodshed. It is further suggested that a small Aboriginal group were permitted by the Badgerys to camp on South Creek (Hardy 1989: 19).

Governor Macquarie visited Exeter Farm in November 1810 on his first inspection of the interior of the colony noting in his journal that:

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*Called first at Badgery's Farm close on the left Bank of the South Creek, where I was much pleased to find a good Farm House built, a good Garden, and a considerable quantity of ground cleared*

---

In the 1880s Exeter Farm was subdivided as enclaves of small 30 to 40 acre leased acreages. From the 1920s under the provisions of the Soldier Settlement Act 1919 further portions of James Badgery's early grant were divided. Exeter Farm was at that time in the ownership of the Stevens family, who later sold a portion of Exeter Farm to Ern Kent. In the 1930s, Kent sold his property to Peter Nobbs, who moved into the homestead with his family to pursue dairying (Donald and Gulson 1996).

## 5.0 ARCHAEOLOGICAL BACKGROUND

### 5.1 Ethnohistorical context

The study area is located near the boundaries of two Aboriginal language groups, Dharawal and Gundungurra (Tindale 1974). The Dharawal are placed in the area from the south side of Botany Bay and Port Hacking to north of the Shoalhaven River and inland to Campbelltown, Camden and Bargo. They are thought to have ranged further north into the Liverpool region, the boundaries defined today can only be used as indicative (Attenbrow 2010). The Gundungurra are described as occupying the southern rim of the Cumberland Plain, west of the Georges River, including a boundary area with the Dharawal in the Camden and Bargo locality.

As traditional territorial boundaries were fluid it is uncertain which group(s) occupied the study area (Peterson 1976). The current state of knowledge about the fluidity of tribal boundaries is based partly on studies of contemporary Aboriginal communities in northern and central Australia who were less affected by European colonisation, and partly on observations of Aboriginal groups to the west and south-west of Sydney who had been severely affected by the disconnection from their lands cause by European colonisation (Thomson 1985).

There are also ethno-historical observations made by early explorers and settlers in the region, who first came into contact with the Aboriginal people of these areas in the 18th and 19th century. Wilson, during a 1798 expedition through the region, observed that people were wearing large skin cloaks. When James Backhouse travelled to the region in 1836, he noted that skin cloaks were still worn, but some European clothes and blankets were also used, and that ceremonies such as tooth avulsion were also practised (Koettig 1981).

In the early 1800s, relationships between the Aboriginal people of the area and the European settlers were in general amicable. Karskens (2010) notes several examples of close relationships between land owners and local Aboriginal people (Karskens 2010). Relations between Aboriginal people and colonists did not remain amicable. A sustained drought during 1814 and 1815, and continued disenfranchisement of Aboriginal people from the land lead to tensions between farmers and Aboriginal people who remained to the southwest of Sydney. Aboriginal people were accused of stealing corn and potatoes and spearing cattle. A number of farmers were killed on their properties. In a dispatch Governor Macquarie wrote that,

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The Native Blacks of this country...have lately broken out in open hostility against the British Settlers residing on the banks of the River Nepean near the Cow Pastures.

---

Aboriginal people were targeted, and it was ordered that Aboriginal men be strung from trees when they were killed as an example (Turbet 2011: 234).

In 1816, the tensions culminated in the Appin massacre when Aboriginal people where pursued by a detachment led by Captain James Wallis. Fourteen Aboriginal people of the Dharawal nation were shot or driven over a cliff to their deaths by the soldiers. The bodies of two of the Aboriginal men were strung up at the site (Turbet 2011).

Overall the devastation of Aboriginal culture did not come about through war with the British, but instead through disease and forced removal from traditional lands. It is thought that during the 1789 smallpox epidemic over half of the Aboriginal people of the Sydney region died. This loss of life meant that some of the Aboriginal groups who lived away from the coastal settlement of Sydney may have

disappeared entirely before Europeans could observe them or record their clan names (Karskens 2010: 452).

Into the nineteen and twentieth century's descendants of the Gundungurra and Dharawal groups continued to live across the southern margin of the Cumberland Plain along with Aboriginal people from other areas of NSW.

## 5.2 Regional context

The archaeological understanding of the early Aboriginal settlement of the Sydney Basin and surrounds is constantly expanding and developing. The oldest evidence of human occupation in the vicinity of the study area comes from Cranebrook Terrace, located 20 km north west of the study area (Attenbrow 2010: 18-20). Cranebrook Terrace has been dated to 41,700 years Before Present (yBP) (ANU-4016).

The existing archaeological record is limited to certain materials and objects that were able to withstand degradation and decay. As a result, the most common type of Aboriginal objects remaining in the archaeological record are stone artefacts. Archaeological analyses of these artefacts in their contexts have provided the basis for the interpretation of change in material culture over time. Technologies used for making tools changed, along with preference of raw material. Different types of tools appeared at certain times, for example ground stone hatchets are first observed in the archaeological record around 4,000 years Before Present (BP) in the Sydney region (Attenbrow 2010: 102). It is argued that these changes in material culture were an indication of changes in social organisation and behaviour.

The Eastern Regional Sequence was first developed by McCarthy in 1948 to explain the typological differences he was seeing in stone tool technology in different stratigraphic levels during excavations such as Lapstone Creek near the foot of the Blue Mountains (McCarthy 1948). The sequence had three phases that corresponded to different technologies and tool types (the Capertian, Bondaian and Eloueran). The categories have been refined through the interpretation of further excavation data and radiocarbon dates (Hiscock and Attenbrow 2005; Jo McDonald Cultural Heritage Management [JMcD CHM] 2005). It is now thought that prior to 8,500 years BP tool technology remained fairly static with a preference for silicified tuff, quartz and some unheated silcrete. Bipolar flaking was rare with unifacial flaking predominant. No backed artefacts have been found of this antiquity.

After 8,500 years BP silcrete was more dominant as a raw material, and bifacial flaking became the most common technique for tool manufacture. From about 4,000 years BP to 1,000 years BP backed artefacts appear more frequently. Tool manufacture techniques become more complex and bipolar flaking increases (JMcD CHM 2006). It has been argued that from 1,400 to 1,000 years before contact there is evidence of a decline in tool manufacture. This reduction may be the result of decreased tool making, an increase in the use of organic materials, changes in the way tools were made, or changes in what types of tools were preferred (Attenbrow 2010:102). The reduction in evidence coincides with the reduction in frequency of backed blades as a percentage of the assemblage.

After European colonisation Aboriginal people of the Cumberland Plain often continued to manufacture tools, sometimes with new materials such as bottle glass or ceramics. There are a number of sites in Western Sydney where flaked glass has been recorded, for example at Prospect (Ngara Consulting 2003) and Oran Park (JMcD CHM 2007).

### 5.3 Previous archaeological investigations

A number of archaeological investigations have been completed in the vicinity of the study area. These have generally been associated with the development of infrastructure and urban release projects. The following discussion presents a review of the most recent and relevant studies and aims to provide contextual information for the current study area.

#### 5.3.1 Archaeological Technical Report (ATR) CSR Advanced Manufacturing Hub (Artefact Heritage 2019)

Artefact Heritage completed test excavation of a variety of landforms in close proximity to South Creek and 2km south of the current study area.

The archaeological program involved the excavation of eight transects intended to sample the assessment area at various elevations and distances from South Creek. A total of 32 artefacts were recovered from 18 of the 77 test pits which was interpreted as the repeated occupation of the assessment area by small groups. Excavation recovered a clay ball retainer hearth which was dated to  $2,056 \pm 20$  BP (Wk-48125). Excavation confirmed that the highest density of artefacts was found within close proximity to the creek line despite the identified flood risk associated with this portion of the study area.

#### 5.3.2 Western Sydney Airport (Navin Officer Heritage Consultants 2016)

An Aboriginal Cultural Heritage Assessment and test excavations were conducted on the land owned by the Australian Government situated on the west side of Badgerys Creek for the Western Sydney Airport. The assessment area included land directly south of the current study area including assessment of the South Creek corridor. The archaeological assessment incorporated both a survey and test excavation in which 23 new Aboriginal sites were recorded. Nine sites were registered as surface artefacts and 14 were registered as a result of the subsurface testing. The predominant material of these artefacts was silcrete. The sites included isolated artefacts, artefact scatters, and grinding grooves. Artefacts were found across varying landforms with valley floors, basal slopes, first order spur lines and areas within 100m of streams as containing a high average artefact incidence.

#### 5.3.3 EIS for the Second Sydney Airport (Navin Officer Heritage Consultants 1997)

Navin Officer Heritage Consultants was engaged to conduct an Aboriginal cultural heritage study as part of the Environmental Impact Statement for the site options of the second Sydney airport. These two sites were located in Badgerys Creek and Holsworthy. The location of the Badgerys Creek site is directly south of the current study area. The study incorporated previous Aboriginal heritage studies within the local area, surface survey and oral cultural heritage information discussed with the various Aboriginal stakeholder groups. Given the large survey area and landscape variables, the study area was divided into local landform units and further subdivided into order of ridgeline and order of stream.

The study identified that most site types were likely to be located in close proximity to water (within 50 m). Sites located near permanent water sources were identified as likely to yield high artefact densities comprised of complex assemblages. A total of 110 sites were recording during this survey. It was found that crests contained the lowest density of sites and isolated artefacts per square kilometre. Disturbance levels were directly correlated to low archaeological potential. Relatively higher artefact densities were identified associated with the major watershed ridgeline between the Nepean River and South Creek catchments. However, it was noted that the relative sample size within the landform may have skewed the results and further research should be required.

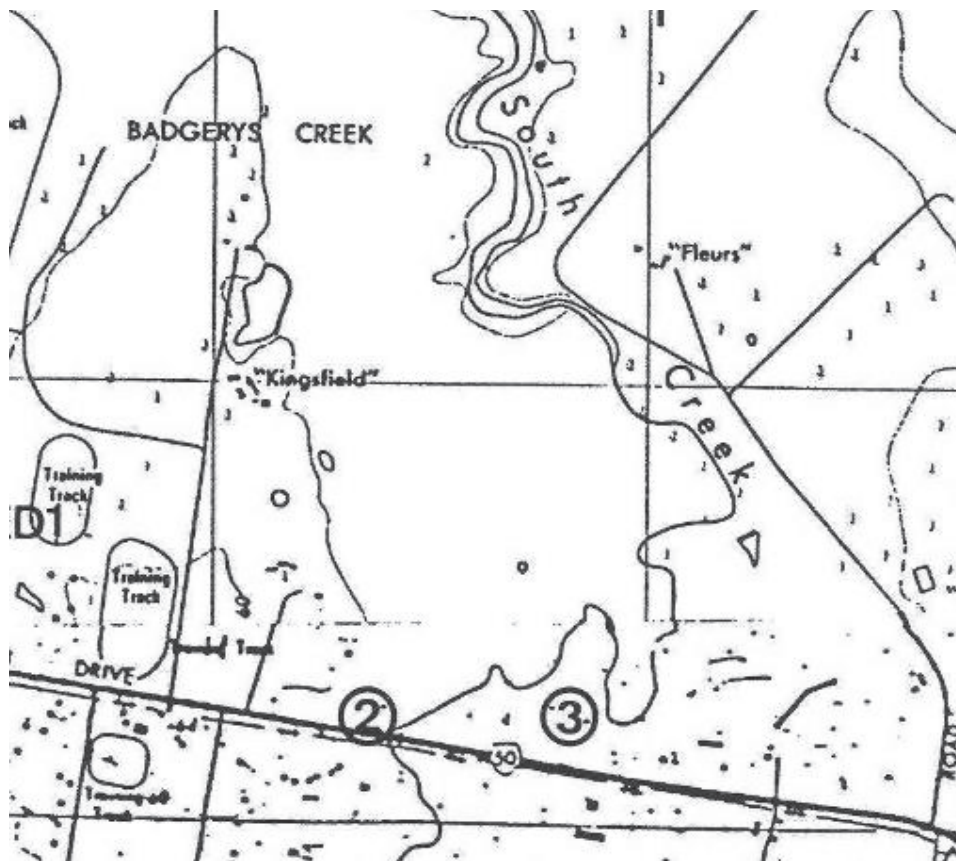


#### 5.3.4 Elizabeth Drive Upgrade Archaeological Survey for Aboriginal Sites (Brayshaw 1995)

Brayshaw (1995) was engaged by Roads and Traffic Authority to investigate Aboriginal heritage for the Elizabeth Drive upgrade as part of the greater Sydney West Airport site. It was found that much of the Elizabeth Drive road easement had been disturbed as part of the previous road works. Several PADs and two artefact scatters were identified north of Elizabeth Drive. These were generally associated with the downstream areas of waterbodies including Kemps Creek, Badgerys Creek, South Creek, and Cosgroves Creek.

One area of PAD was identified within the current study area within the south east portion of the study area. This area was located approximately 80 m west of the banks of South Creek within a raised area between Elizabeth Drive and a gully flowing into the creek. Brayshaw considered it likely that that area was dry at most times when compared to the plains adjacent to south creek which were likely subject to frequent flooding.

**Figure 2: Area of PAD identified by Brayshaw (shown by the number 2), current study area approximated in red**



#### 5.3.5 Penrith DCP 2014

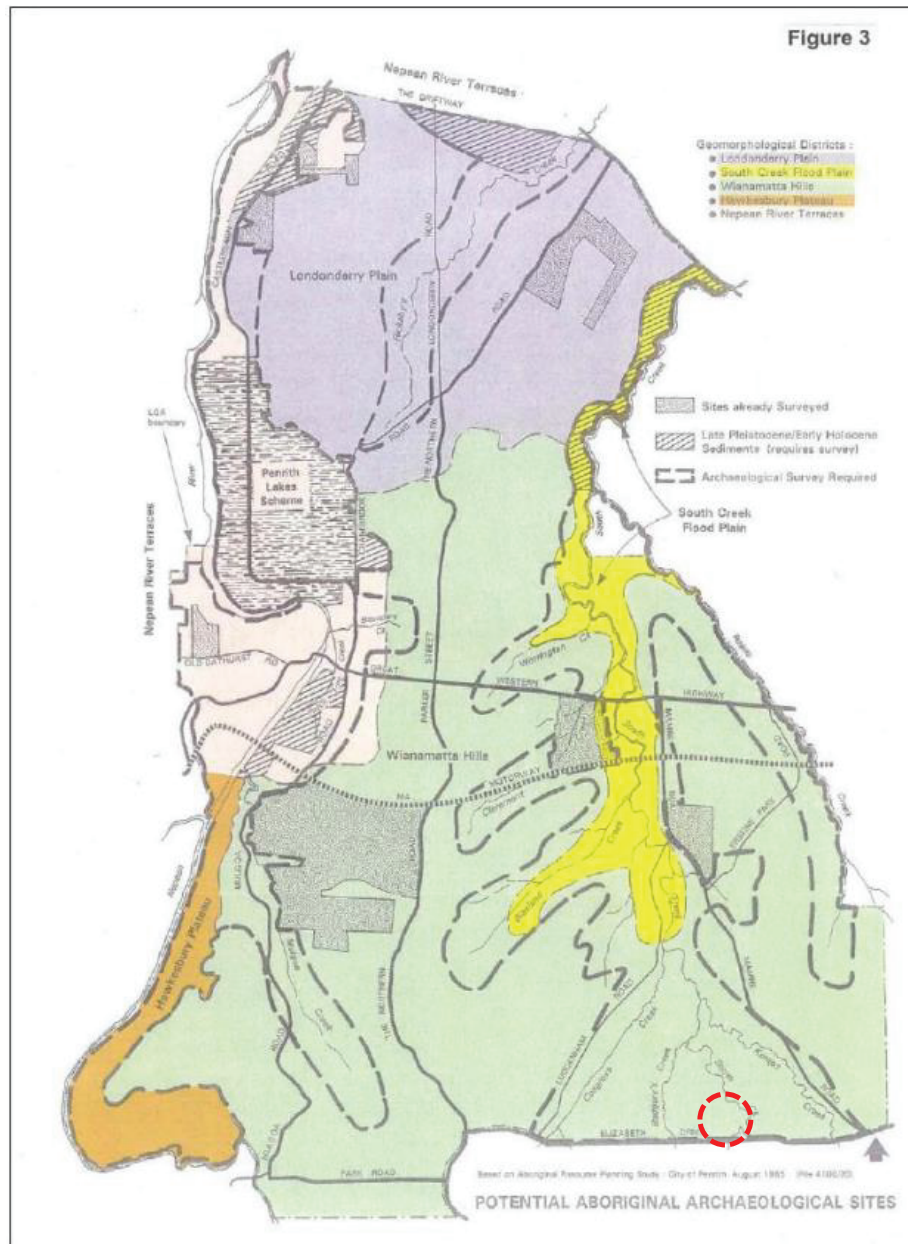
The Penrith DCP is a non-statutory supporting document that compliments the provisions in the Penrith LEP 2015. The objectives of the document in relation to Aboriginal heritage is to 'preserve items and sites of Aboriginal archaeological significance located within the city of Penrith.

The DCP includes a sensitivity map has been created to guide whether archaeological assessment is required to be undertaken as part of a development application. The sensitivity map is based on assessment undertaken for the Aboriginal Resource Planning study completed for identifies the lands



surrounding South Creek and its tributaries as sensitive. This area of sensitivity includes the entirety of the current study area.

**Figure 3: Potentially sensitive landscapes (illustrated by dashed line) within the Penrith LGA current study area approximated in red**



## 5.4 Registered Aboriginal sites

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

An extensive search of the AHIMS database was undertaken on the 9 April 2020 (AHIMS search ID 496851). An area of approximately 5 kilometres by 4.7 kilometres was included in the search. The

AHIMS search provides archaeological context for the area and identifies whether any previously recorded Aboriginal sites are located within or near the study area. The parameters of the search were as follows:

GDA 1994 MGA 56	291052 – 296054 m E 6247329 - 6252066 m S
Buffer	0 m
Number of sites	72

A total of 54 Aboriginal sites were identified in the extensive AHIMS search area. The frequency of recorded site features is summarised in Table 4. A registered Aboriginal site is made up of one or more features and these features should not be confused with registered Aboriginal site. DPIE lists 20 standard site features that can be used to describe a site registered with AHIMS. For the 72 sites within the search area, five combinations of site features were recorded. The majority of recorded site features are Artefacts (n=56) followed by Artefact and Potential Archaeological Deposit (PAD) (n=9).

**Table 4: Frequency of site features from AHIMS data**

Site Feature	Frequency	Percentage (%)
Artefact	56	77.7
Grinding Groove	1	1.4
Modified Tree (Carved or Scarred)	1	1.4
Potential Archaeological Deposit (PAD)	5	6.9
Artefact, Potential Archaeological Deposit	9	12.5
<b>Total</b>	<b>72</b>	<b>100</b>

Figure 4: Previously recorded sites identified in AHIMS search

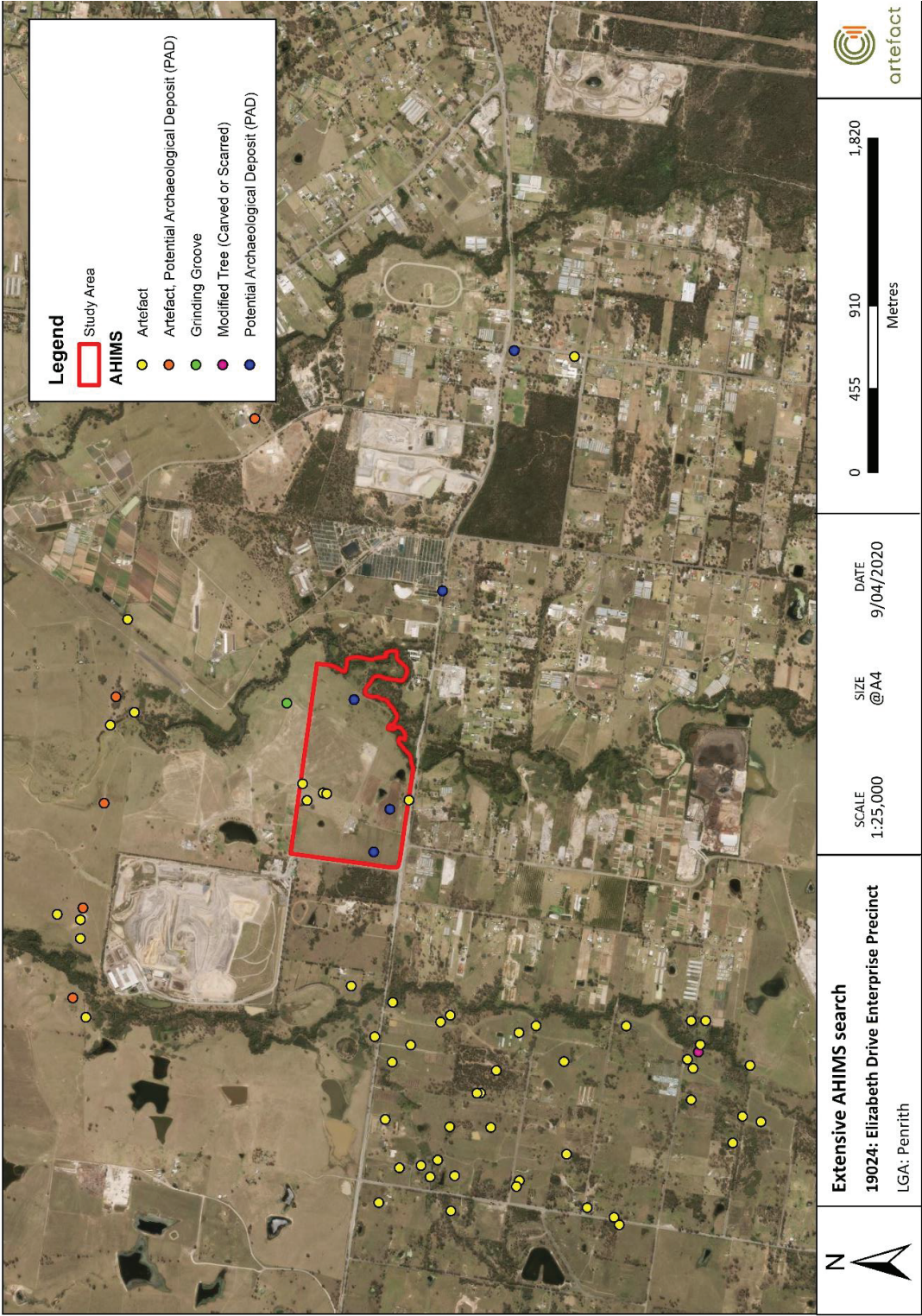
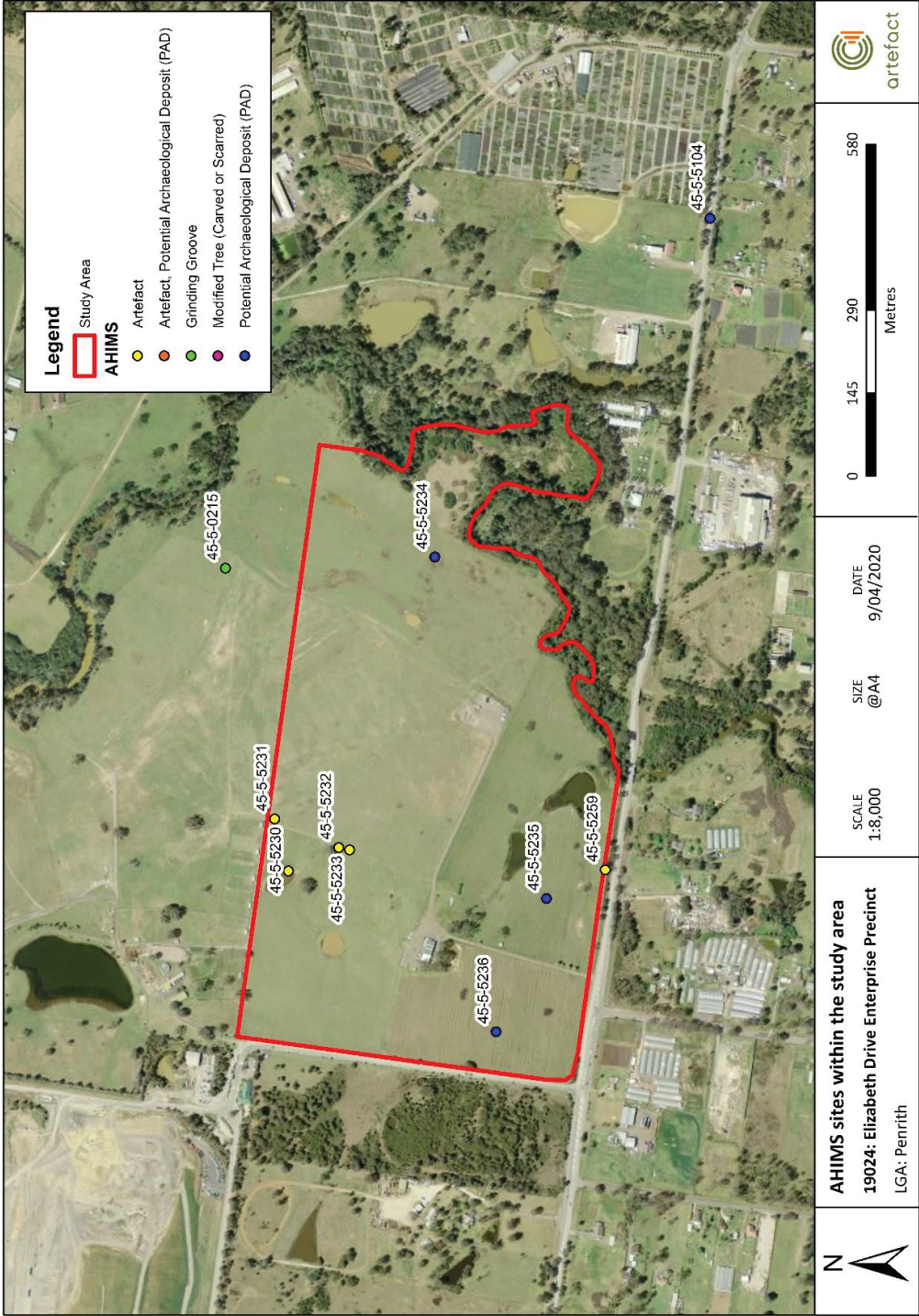




Figure 5: AHIMS sites within the study area, AHIMS ID 45-5-5235 and AHIMS ID 45-5-5235 subject to the current test excavation program



## 5.5 Predictive modelling

Archaeological investigation across the Cumberland Plain has been comprehensive over the past 30 years, including survey, excavation and desktop analysis studies. This varied and intensive investigation has led to the development and continual refinement of a predictive model for Aboriginal occupation within the region.

Regional studies have been undertaken on the large Growth Centres of the North West and South West of the Cumberland Plain, west of the Sydney Basin. White and McDonald (2010) have contributed to the debate over site prediction by discussing the nature of Aboriginal site distribution, interpreted through lithic analysis of excavated sites in the Rouse Hill Development Area (White and McDonald 2010). The Rouse Hill Development Area is located about 15 km north of the current study area. The watercourses in the development area (Caddies Creek and Second Ponds Creek) derive from the same source as South Creek, the Hawkesbury River, and are of a similar stream order. The soil landscapes are also reflective of those in the current study area, the South Creek Soil Landscape along the high order watercourses and associated remnant Blacktown Soil Landscape. The study gave rise to the commonly referred Stream Order Model which provides a sound basis for archaeological investigations in the Cumberland Plain. The paper provides a spatial and distributive analysis of Aboriginal objects in relation to freshwater resources and along varying landform units. The findings of this study highlighted the relationship between proximity to freshwater and landscape with archaeological evidence of Aboriginal activities. The study found that artefact densities were most likely to be greatest on terraces and lower slopes within 100 m of freshwater resources (White and McDonald 2010). The predictive model identified that ridgelines and crests located between drainage lines will contain archaeological evidence though usually representative of background scatter (White and McDonald 2010).

While White and McDonald's (2010) predictive model can be seen as an indicative model of the archaeology of the Cumberland Plain, a more recent study has been conducted by Godden Mackay and Logan (GML 2012) at the East Leppington Precinct approximately 18 km south of the current study area. The study utilised the Stream Order Model developed by White and McDonald (2010) in their investigations and three different and complementary models to explain their findings. The Stream Order Model is a regional based model and doesn't consider the small-scale intra-landform variations that can affect the predictions of this model.

Owen and Cowie (2017) describe three other models that can be used to more accurately describe archaeological probability within the landscape, The Economic Resource Model, Activity Overprinting Model and Domiciliary Spacing Model. These models were used as the basis of predictive modelling within the East Leppington precinct. Post excavation analysis considered that the combination of these models provided a good understanding of the over-arching archaeological potential of the East Leppington landscape.

The Economic Resource Model identifies locations with substantial resources (such as food and knapping sources) as economic zones. The model identifies a correlation between the relative yield of the economic zone and the distance that sites are likely to be away from the economic zone. Site locations are also considered to relate to changes in 'textures' across the landscape which may include changes in landform. Varying landforms within the influence of an economic zone can then be ranked according to their suitability for repeated occupation. Substantial creek lines are considered high resource zones due to the richness in flora and fauna. The model suggests that the evidence of Aboriginal activities will decrease with distance from these resource rich nodes.

The Activity Overprinting Model was used to explain the density of sites at increasing distances from the creek and Domiciliary Spacing Model was used to describe the features and spatial variation of a site.

In conjunction with these models, an understanding of the soil landscape and the nature and prevalence of cultural material within these contexts is important in the predictive model process. Deposits that contain cultural material are likely to exist within the Blacktown soil landscapes however, these are deposits are generally not stratified. Blacktown soils retrieve cultural material in A Horizon deposits which generally extend approximately 300 mm below the ground surface.

Every predictive model has its limitations and constraints and should be used as a guiding factor for future investigation and be used as a bridging tool to further current understanding of the cultural environment.

The following predictions were developed relating to the two areas of PAD subject to test excavation.

- Elizabeth Precinct PAD 01 (AHIMS ID 45-5-5236) includes a raised crest associated with a broad ridgeline within the western portion of the study area. This area includes a substantial vantage point towards South Creek with easy access to the creek line through multiple spur lines. Further the ridgeline may have provided an access route to the south which leads towards further substantial ridgelines within the wider landscape. Areas away from watercourses are likely to have lower archaeological potential. Although areas away from watercourses demonstrate lower archaeological potential, they may provide archaeological evidence for differing and perhaps less frequent land-use in those areas.
- Elizabeth Precinct PAD 02 (AHIMS ID 45-5-5235) is located within a central spur line located above the confluence of two drainage lines which would have formerly connected directly to South Creek. This area is considered to have been subject to lower levels of disturbance than the surrounding spur lines. Adjacent excavations completed for the Western Sydney airport (Navin Officer Heritage Consultants 2016) identified spur lines adjacent to first order water courses as containing higher than average artefact yields.



## 6.0 ARCHAEOLOGICAL TEST EXCAVATION

The archaeological test excavation programme has been designed and undertaken in accordance with the Code of Practice. The Code of Practice prescribes guidelines for archaeological test excavation that may occur without an AHIP under the NP&W Act. Consultation with registered Aboriginal parties has been an integral part of the test excavation programme in accordance with subclause 80C(6) of the NP&W Regulation.

### 6.1 Aims of the test excavation

The aims of the archaeological test excavation were:

- To assess the scientific significance of each of the testing areas following analysis of test excavation results
- To provide an opportunity for registered Aboriginal stakeholders to comment on the Aboriginal cultural heritage values of the site
- To provide the proponent with recommendations on opportunities to avoid impact and future requirements for further archaeological investigation where required.

### 6.2 Timing and personnel

The test excavation program was carried out across 13 days from the 17 February to 24 August 2018. Test excavation was directed by Duncan Jones (Principal, Artefact Heritage), supervised by Alyce Haast (Senior Heritage Consultant, Artefact Heritage) and Anna Darby (Heritage Consultant, Artefact Heritage). Table 5 lists all participants in the test excavation and their dates of participation.

**Table 5: Summary of participants**

Name	Organisation	Role	Date
Duncan Jones	Artefact Heritage	Principal	24 February, 28 February, 6 March 2020
Alyce Haast	Artefact Heritage	Excavation supervisor	17-20 February, 2-3 March 2020
Anna Darby	Artefact Heritage	Excavation supervisor	17-27 February, 2 March 2020, 6 March 2020
Latisha Ryall	Artefact Heritage	Archaeologist	17-19 February, 24-25 February, 28 February, 2-3 March, 6 March 2020
Isabel Wheeler	Artefact Heritage	Archaeologist	20-21 February, 26-27 February, 3 March, 6 March 2020
William Jones	Artefact Heritage	Archaeologist	24-25 February, 27-28 February 2020
Ian Davies	Barraby Cultural Services	Site Officer	17-21 February 2020

Name	Organisation	Role	Date
Arika Jalomaki	Wurrumay Pty Ltd	Site Officer	17-21 February 2020
Adam King	Didge Ngunawal Clan	Site Officer	17-21 February 2020
Mark Dutton	Goobah	Site Officer	24-26 February 2020
Amanda Hickey	Amanda Hickey Cultural Services	Site Officer	24-26 February 2020
Brayden McDougall	A1 Indigenous Services	Site Officer	24-26 February 2020
Steven Knight	Deerubbin LALC	Site Officer	27-28 February 2020
Shelley Weldon	Deerubbin LALC	Site Officer	2-3 March 2020, 6 March 2020
Lana Wedgewood	Darug Custodian Aboriginal Corporation	Site Officer	28 February 2020
Tylah Blunden	Darug Custodian Aboriginal Corporation	Site Officer	27 February, 2-3 March, 6 March 2020
Rebecca Chalker	Cubbitch Barta Native Title Claimants Aboriginal Corporation	Site officer	27 February 2020
Daniel Chalker	Cubbitch Barta Native Title Claimants Aboriginal Corporation	Site officer	28 February- 3 March 2020

### 6.3 Constraints

Substantial rainfall events were experienced across the study area immediately prior to and during the excavation program resulting in portions of the site being waterlogged during excavation. Several excavation units were offset during the test excavation program to avoid areas of inundation. Additional precautions were also taken during the placement of the sieve station to ensure run off did not enter adjacent drainage lines or waterways.

Despite these constraints, all proposed test pits were excavated down to an archaeologically sterile deposit and the proposed sampling of the study area was achieved.

## 6.4 Methodology

Archaeological test excavation was conducted within the areas of archaeological potential which would be impacted by the proposal, with the aim of testing the extent and nature of potential sub-surface artefact deposits. This included excavation of the mapped extent of Elizabeth Precinct PAD 01 (AHIMS ID 45-5-5236) and Elizabeth Precinct PAD 02 (AHIMS ID 45-5-5235).

A total of 88 excavation units (excavation unit = 50 centimetres by 50 centimetres) were excavated across two testing areas comprised of Elizabeth Precinct test area 1 and Elizabeth Precinct test area 2. Excavation within Elizabeth Precinct test area 1 (EP1) included the excavation of 58 excavation units across the full extent and immediate surrounds of Elizabeth Precinct PAD 01 (AHIMS ID 45-5-5236). Elizabeth Precinct test area 2 (EP2) included the excavation of 30 excavation units across the full extent and immediate surrounds of Elizabeth Precinct PAD 02 (AHIMS ID 45-5-5235) (see Figure 6).

Excavation units were initially placed in transects located 30 m apart across the extent of Elizabeth Precinct PAD01 and Elizabeth Precinct PAD 02 with each transect running approximately perpendicular to South Creek. Excavation units were spaced 30 m apart along each transect to form a grid pattern across the tested landform. Placement of transects perpendicular to South Creek was undertaken to recover information regarding the relationship between the distance to South Creek and artefact density across varying landforms.

A total of two excavation units were expanded to 1 m x 1 m test pits (comprised of four individual excavation units) where comparatively higher densities of Aboriginal objects were recovered. In one instance an additional excavation unit was placed 15 m from an existing high-density pit to further investigate the geographic distribution of the high-density deposit within the established requirements of the Code of Practice.

### 6.4.1 Excavation procedure

Test excavation involved hand excavation of 50 cm by 50 cm excavation units down to an archaeological sterile depth. The first excavation unit in each test area was excavated in arbitrary spits of 50 mm with each subsequent excavation unit excavated in arbitrary spits of 100 mm. Where archaeological features were encountered excavation of the feature occurred as a single unit. Where unusual deposits were encountered excavation units were expanded.

A context sheet for each excavation unit was completed in the field. Details recorded included date of excavation, name of excavators, depth, number of buckets and soil description. A photographic record was made for each section wall and base for all excavation units and a scale drawing was completed of a representative section of each excavation unit. Soil pH and Munsell soil colour was determined on a representative sample of excavation units across each test area.

All retrieved deposit from each excavation unit was placed in buckets and transported to a sieve area. All retrieved deposit was wet sieved using 3 mm sieves.

All excavation units were backfilled with the clean fill by a combination of mechanical and hand methods.

### 6.4.2 Aboriginal objects

All Aboriginal objects retrieved during the course of test excavation were placed in re-sealable bags for further analysis and recording. Once test excavation was completed, the artefact assemblage was recorded and stored. This included recording key attributes of material, artefact type, platform type,

and dimensions, as well as a photographic record of representative artefacts (Table 6). All recorded information was entered into a Microsoft Excel table with detail linked to the provenance of each artefact. Once entered into the Excel table (Appendix 2), the data can be readily supplied with the test excavation report.

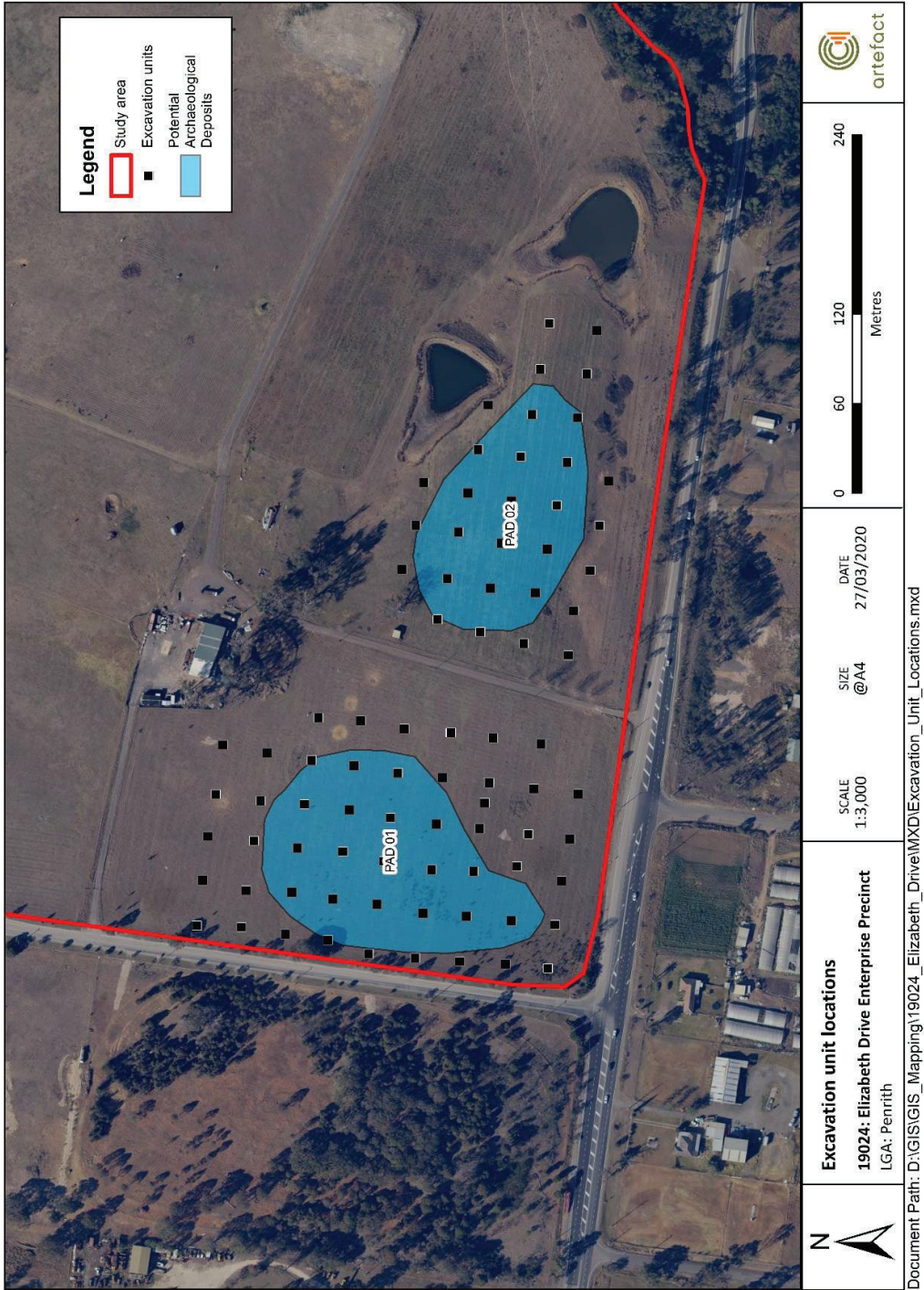
All artefacts were stored in double re-sealable snap lock bags. A permanent marker was used to record the provenance of the artefacts in each bag in writing on the outside of the bag and on an archival grade tag such as Dupont <sup>TM</sup> Tyvek <sup>®</sup> paper.

An Aboriginal Site Recording Form was completed for newly identified sites and submitted to the AHIMS registrar as soon as practicable following the test excavation.

**Table 6: Recorded artefact attributes**

Artefact attributes	Recorded details
Site details	Site name
Test pit	Location of the northwest corner of the test pit on the X Y grid
Spit	Spit number
Raw material	Raw material type and colour. Raw material types included: basalt, chalcedony, chert, dolerite, ironstone, mudstone, quartz, quartzite, silcrete, glass
Typological class/ reduction type	Debris, complete flake, flake fragment marginal, transverse fragments, longitudinal fragments, multiple platform core (MPC), single platform core (SPC), core fragment, muller, Other.
Formal tool type (if applicable)	Backed, blade, tula adze, burren adze, burin, scrapper, retouched, geometric microlith
Dimensions	Orientated length, width and thickness of complete flakes
Cortex	Cortex coverage of whole artefact.
Weight	Measured to the 0.1 gram (gm). Artefacts less than 0.05 gm were rounded up to 0.05 gm, whilst artefacts greater than 0.05 gm were rounded up to 0.1 gm

Figure 6: Excavation units across Elizabeth Precinct test area 1 (testing Elizabeth Precinct PAD 01) and Elizabeth Precinct test area 2 (testing Elizabeth Precinct PAD 02)





## 7.0 TEST EXCAVATION RESULTS

### 7.1 Location, landform and disturbance

#### 7.1.1 Test pit locations

Test excavation was completed across two core landform areas including a crest landform located approximately 400 to 625 metres from South Creek (EP 1) and spur landform located approximately 130 to 380 metres from South Creek (EP 2).

Test excavation was undertaken across each landform in a 30 m grid pattern to test the landform at a variety of distances to South Creek and its surrounding drainage line. Test excavation also aimed to test the variation in artefact density across the major landform of each test area and the transition to adjacent landforms comprised of areas of slope and drainage line.

Contour data in conjunction with levels taken during the excavation were utilised to separate excavation units into the categories based on landform type.

#### 7.1.2 Landform context

##### **Crest landform:**

The crest landform was located within the western portion of EP1. A total of 24 excavation units were excavated within the crest landform in which three excavation units recovered artefacts (n=3, 12.5%). Three artefacts were recovered from the excavation units across the crest landform resulting in an artefact density of 0.5 artefacts per square metre.

Noted disturbances across the slope landform were largely agricultural furrows associated with former orcharding across the site. One excavation unit (X1000 Y1120) included evidence of minor fill activities.

##### **Slope landform:**

The slope landform was located within the eastern portion of EP1 and across the majority of the spur landform in EP2. A total of 58 excavation units were excavated across the slope landform in which 18 of the excavation units recovered artefacts (n=18, 31%). A total of 79 artefacts were recovered from excavation units across the slope landform resulting in an artefact density of 5.4 artefacts per square metre.

The majority of the artefacts recovered from this test area was recovered from a 1x1 m expansion of excavation unit X1120 Y1030. Field observation identified that excavation unit X1120 Y1030 was located on a localised flat area within the wider slope landform. This high density may be in response to post depositional processes associated with colluvial movement or movement associated with the agricultural use of the study area. A total of 46 artefacts were recovered from the 1 x1 m expansion.

When this one test pit of high artefact density is removed from the analysis, a total of 33 artefacts were recovered from the remaining 54 excavation units, resulting in a density of 2.4 artefacts per square metre.

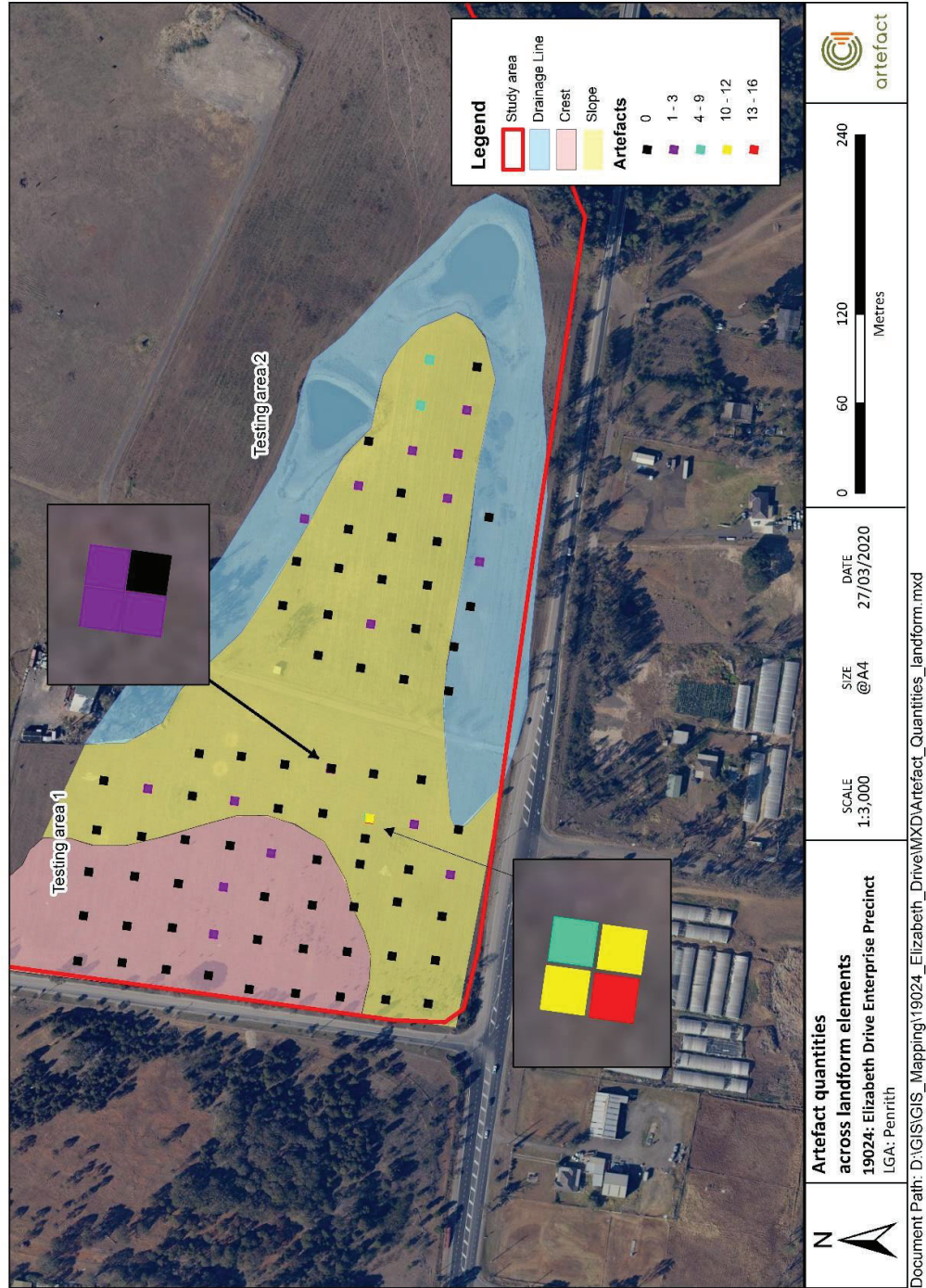


## Drainage line

The drainage line landform is comprised of two lower order drainage lines surrounding the spur landform within EP2. The drainage lines converge directly east of EP2 with a large dam constructed at the confluence. The drainage channels were comprised of wide and shallow depressions which appeared to be ephemeral in nature. The wide nature of the drainage channels suggests that water velocity in these channels would be relatively low suggesting that the while the drainage channels would have been subject to some level of fluvial deposition that the force associated with this movement may not have been substantial enough to completely remove archaeological remains. Evidence of low energy fluvial deposition was noted across the drainage line with areas of erosion scour noted in several locations.

Excavation units within the drainage line were also significantly deeper than the surrounding excavation units suggesting the deposition of sediment in several areas across the drainage line features. A total of six excavation units were excavated within the drainage line landform in which two excavation units recovered artefacts (n=2, 33.3%). A total of three artefacts were recovered from the excavation units within the drainage line, resulting in a density of two artefacts per square metre.

Figure 7: Density of recovered artefacts across identified landform units



### 7.1.3 Correlation between distance to water sources and artefact counts

Lowland terraces immediately adjacent to South Creek (Elizabeth Precinct PAD 03) were not excavated during this test excavation program, which would be able to provide comparative data to support or oppose stream order models for artefact densities at the Elizabeth Precinct site. As the excavation units were excavated largely on the slope and crest landforms in the study area, the following discussion is considered provisional until the EP PAD 03 site can be excavated to compare data.

Table 7 and Figure 8 shows proportion of excavation units which recovered artefacts in relation to nearby ephemeral drainage lines. Table 8 and Figure 9 meanwhile demonstrate the number of test excavation units which recovered artefacts in relation to the proximity to South Creek.

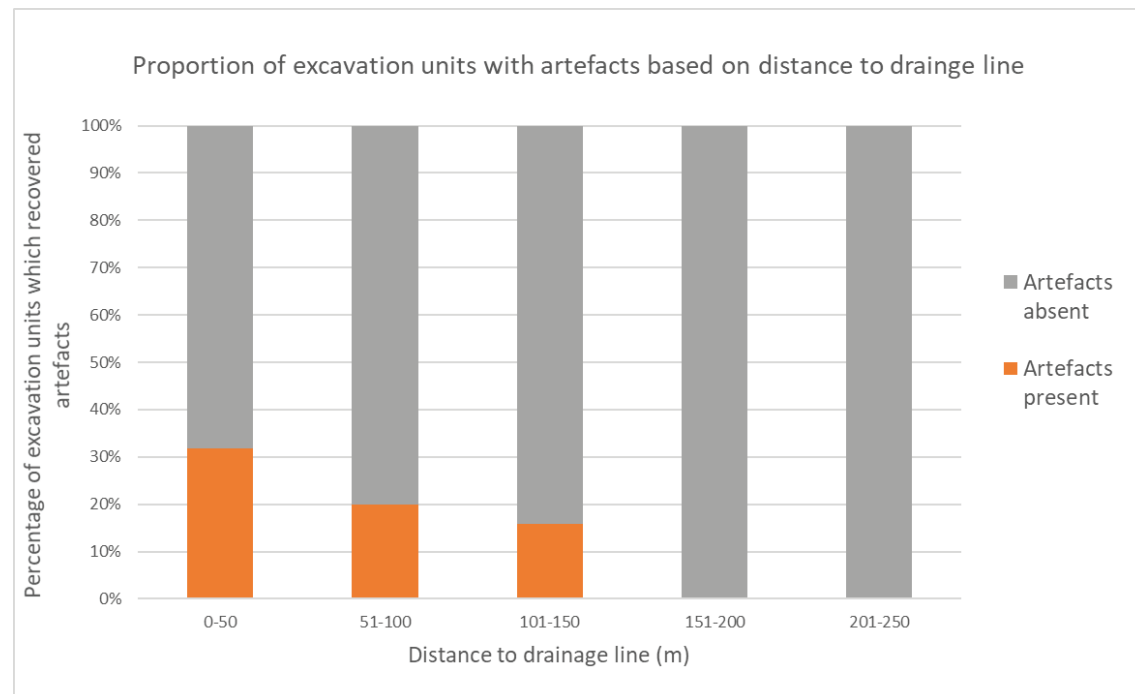
While a greater proportion of pits nearer to South Creek were artefact-bearing compared to those pits excavated further away, this is largely because a much smaller number of pits were excavated nearer to South Creek in EP2 on the constrained landform of the spur crest. The majority of artefacts were recovered in EP1 a further distance from South Creek however a larger proportion of the excavation units were located in this area across the ridge and slope landforms which overall resulted in a comparatively lower proportion of artefact-bearing excavation units.

Overall, the test excavation data indicates that the proximity to South Creek has not influenced the recovered distribution of artefacts.

**Table 7: Summary of artefact results when compared to distance to drainage line**

Distance to drainage line (m)	Excavation units which recovered artefacts	Excavation units which did not recover artefacts	Total number of excavation units	Proportion of excavation units with artefacts (%)	Proportion of excavation units without artefacts (%)
0-50	7	15	22	31.8	68.2
51-100	4	16	20	20.0	80.0
101-150	3	16	19	15.8	84.2
151-200	0	16	16	0.0	100.0
201-250	0	7	7	0.0	100.0

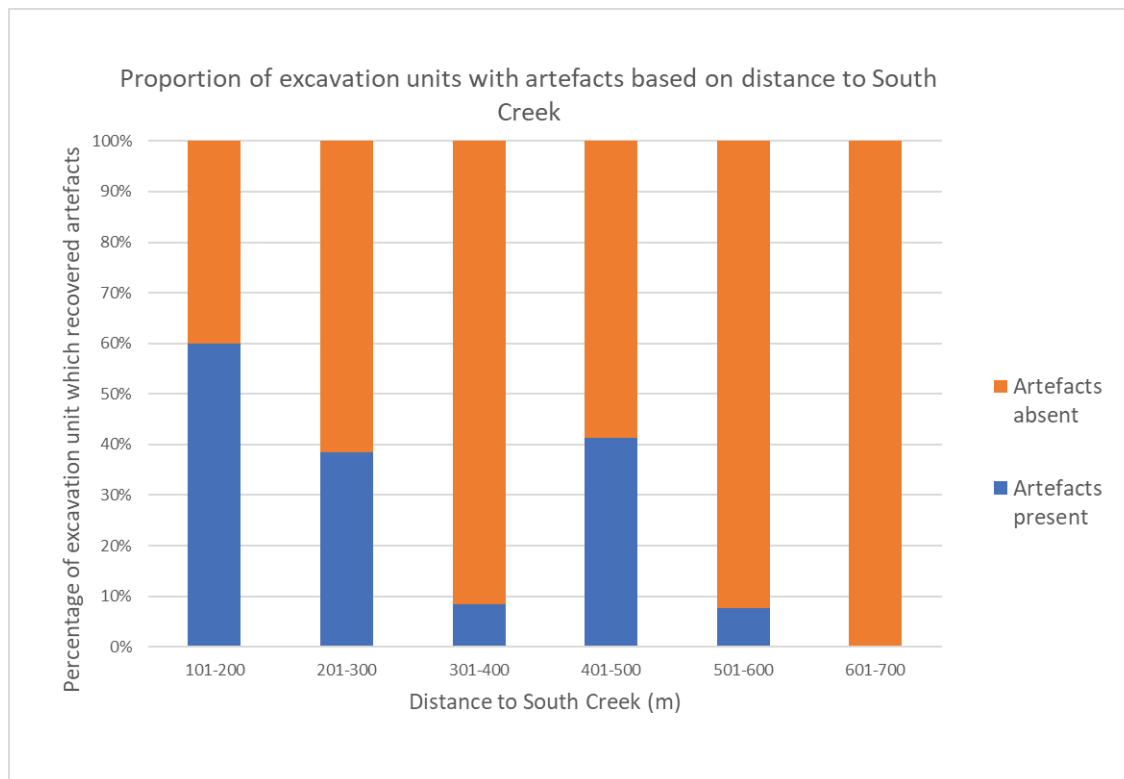
**Figure 8: Proportion of excavation units with artefacts present based on distance to drainage line**



**Table 8: Summary of artefact results when compared to distance to drainage line**

Distance to South Creek (m)	Excavation units which recovered artefacts	Excavation units which did not recover artefacts	Total number of excavation units	Proportion of excavation units with artefacts (%)	Proportion of excavation units without artefacts (%)
101-200	3	2	5	60.0	40.0
201-300	5	8	13	38.5	61.5
301-400	1	11	12	8.3	91.7
401-500	12	17	29	41.4	58.6
501-600	2	24	26	7.7	92.3
601-700	0	3	3	0.0	100.0

**Figure 9: Proportion of excavation units with artefacts present based on distance to South Creek**



## 7.2 Soils and stratigraphy

### 7.2.1 Elizabeth Precinct test area 1

Soils across EP1 were generally divided into two distinct soil profiles associated with their landform context.

The soils on the crest were generally comprised of a mid-brown clay loam A1 horizon overlying a dark yellowish-brown clay loam A2 horizon. The A2 horizon included substantial ironstone gravel inclusions with mottled patches of the underlying B horizon clays mixed within some excavation units. When waterlogged, the transition between the A1 horizon and A2 horizon was difficult to discern.

Excavation units across the crest landform extended to a depth of between 130 mm and 340 mm with an average depth of 204 mm.

Table 9 provides a summary of soils profile encountered across the crest landform within EP1. A representative photograph and section drawing of an excavation unit within the crest landform is shown in Figure 10 and Figure 11 respectively.

**Table 9: Example of soil profile identified across crest landform within Elizabeth Precinct test area 1**

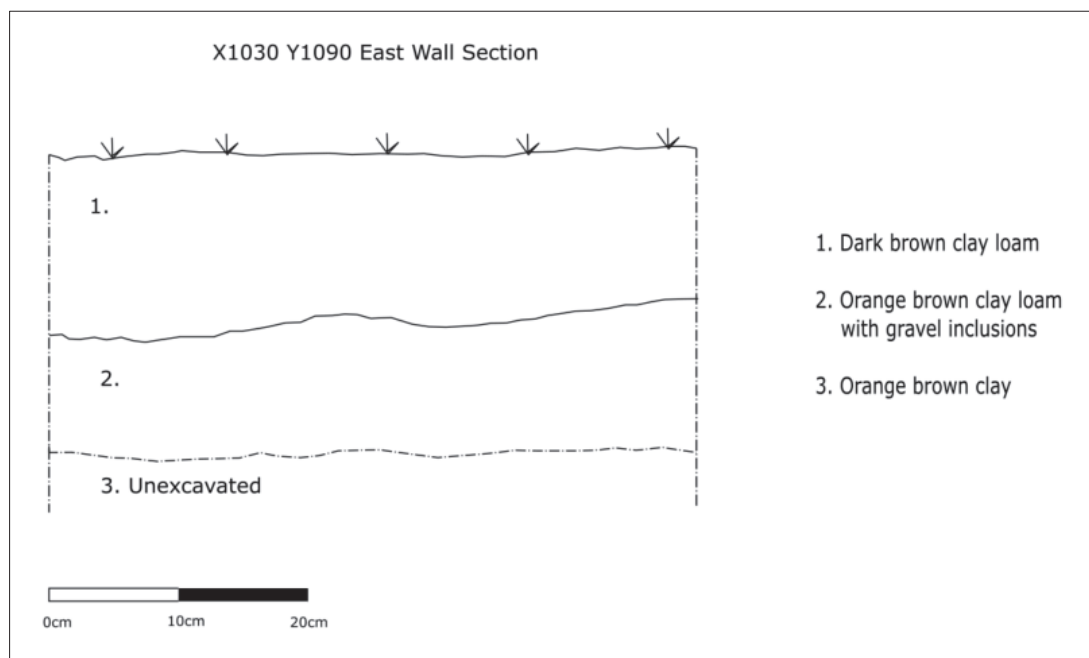
Test pit X1030 Y1090	
A1 Horizon	Depth: 0-150 mm
	pH: 6
	Munsell: 10YR 2/2 very dark brown
	Description: Dark brown clayey loam, with grass rootlets.
A2 Horizon	Depth: 150 – 250 mm
	pH: 6
	Munsell: 10YR 2/2 very dark brown
	Description: Orange brown clayey loam, with grass rootlets and ironstone gravels.
B Horizon	Depth: > 250 mm
	pH: 6
	Munsell: 2.5YR 2.5/2 very dusky red
	Description: sticky orange brown clay



Figure 10: X1030 Y1090 west section



Figure 11: X1030 Y1090 east section drawing



Soils along the slopes within EP1 were generally comprised of a dark brown clay loam A1 horizon overlying an orange red clay B horizon. Average excavation unit depth across the slope landform within EP1 varied between 100 mm and 400 mm with the average excavation depth of 242 mm. Shallow pits were localised to the northern portion of the test area adjacent to an existing dam structure suggesting that some soil in this area may have been removed during bunding of the dam wall during construction.

Table 10 provides a summary of the soil profile encountered across the slope landform within EP1. A representative photograph and section drawing of an excavation unit within the slope landform is shown in

Figure 12 and Figure 13 respectively.

**Table 10: Example of soil profile identified across slope landform within Elizabeth Precinct test area 1**

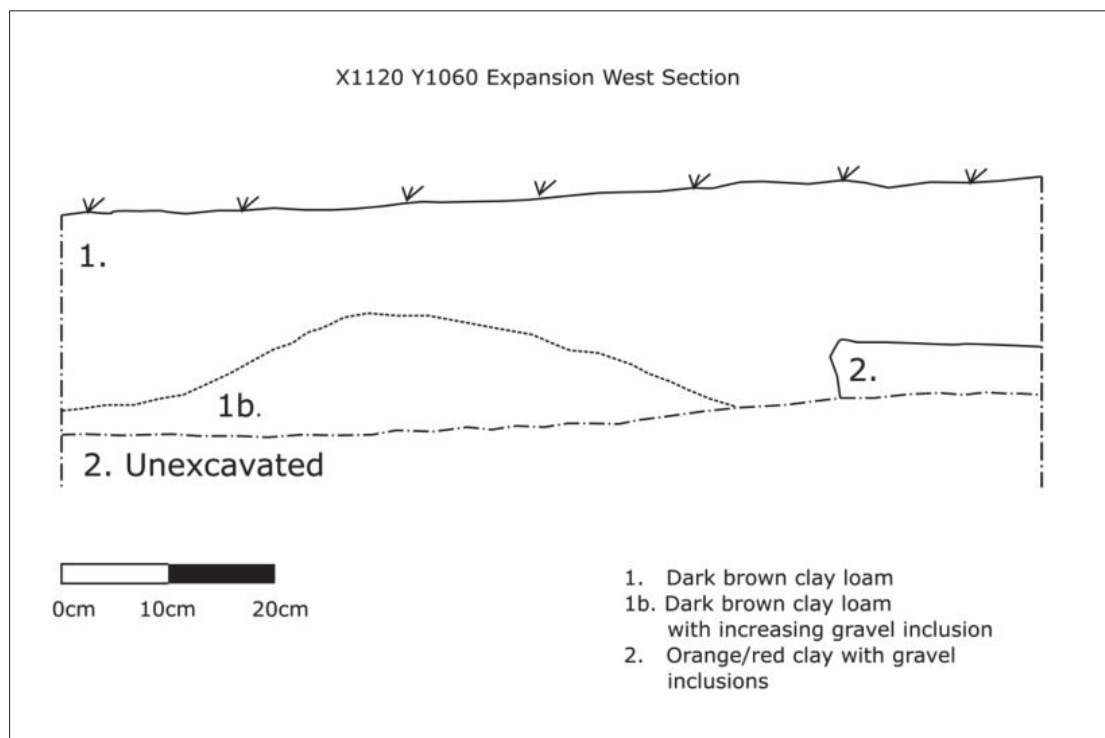
Test pit X1120 Y1060	
A Horizon	Depth: 0- 380 mm
	pH: 6 ½
	Munsell: 10YR 2/1 black
	Description: Dark brown clayey loam, with grass rootlets.
B Horizon	Depth:380- 400 mm
	pH: 5 ½
	Munsell: 2.5YR 4/6 red
	Description: Red clay



Figure 12: X1120 Y1060 expansion north section



Figure 13: X1120 Y1060 expansion west section



## 7.2.2 Elizabeth Precinct test area 2

The soils within EP2 varied between the sloped landform of the spur and the adjacent drainage line landform. Deposits within the drainage line were generally deeper than the surrounding landforms with excavation unit depths varying between 250 mm and 690 mm. The average depth of excavation units across the landform was 433 mm. Soils across the drainage line consisted of a thin dark brown silt overlying an orange clay cap, transitioning to a mid-brown loamy clay over a compact orange brown clay. Some variation in deposit occurred across the drainage line associated with differential deposition of strata. Colour variation occurred due to drying soils after heavy rain. Table 11 provides a summary of the soil profile encountered across the drainage line landform in EP2. A representative photograph and section drawing of an excavation unit within the slope landform within EP2 is shown in Figure 14 and Figure 15.

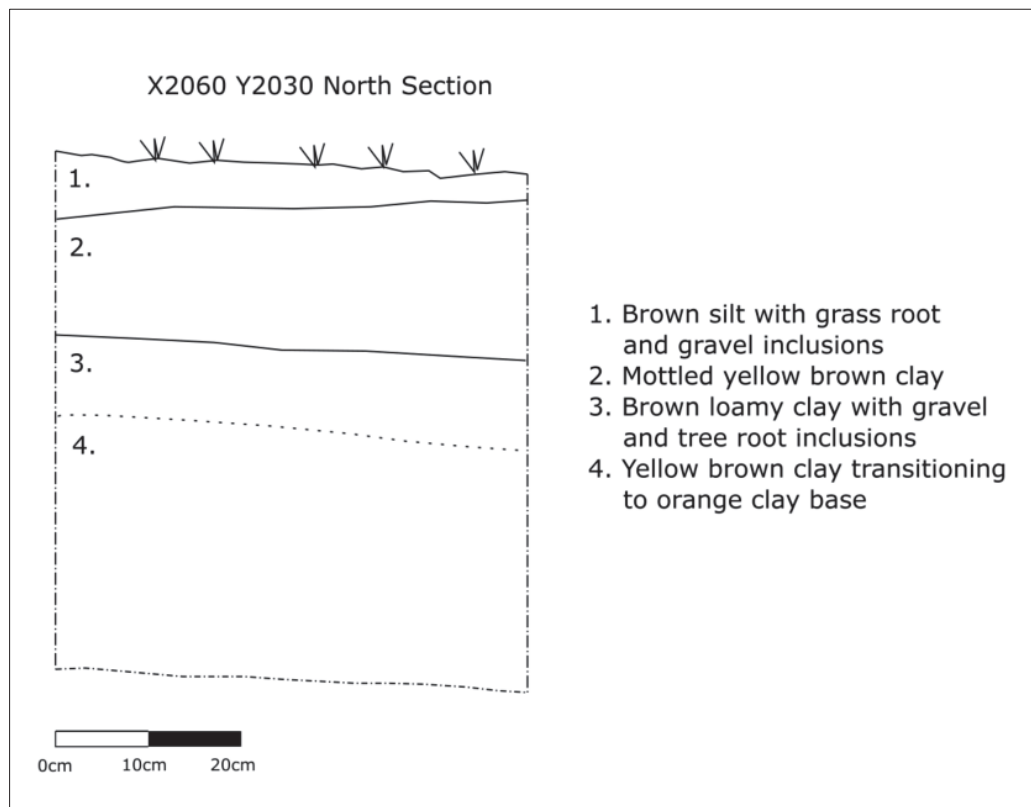
**Table 11: Example of soil profile within drainage line landform**

Test pit X1060 Y1030	
A1 Horizon	Depth: 0-70 mm
	pH: NA
	Munsell: 7.5 YR 3/2 dark brown
	Description: Thin silty loam topsoil
A2 Horizon	Depth: 70- 200 mm
	pH: 7 ½
	Munsell: 7.5YR 7/8 reddish yellow
A3 Horizon	Description: Mottled brown and orange silty clay cap
	Depth:200 – 300 mm
	pH: 9
	Munsell: 5YR 2.5/2 dark reddish brown
B Horizon	Description: Brown silty clay
	Depth:300 – 600 mm
	pH: 9
	Munsell: 5YR 5/6 yellowish red
	Description: Yellowish brown clay

Figure 14: X2060 Y2030 north section



Figure 15: X2060 Y2030 north section





Soils across the remainder of EP2 consisted of shallow dark brown clay loam A1 horizon over a compact red clay B horizon. Farrows within the clay were observed as a result of ploughing. Burning events were also observed within some of the pits as evidenced by burnt clay and tree roots. Excavation unit depth varied between 120 mm and 340 mm with an average depth of 213 mm observed across the landform.

Table 12 provides a summary of soils encountered across the slope landform within EP2. A representative photograph and section drawing of an excavation unit within the slope landform is shown in Figure 16 and Figure 17 respectively.

**Table 12: Example of the soil profile within slope landform of Elizabeth Precinct test area 2**

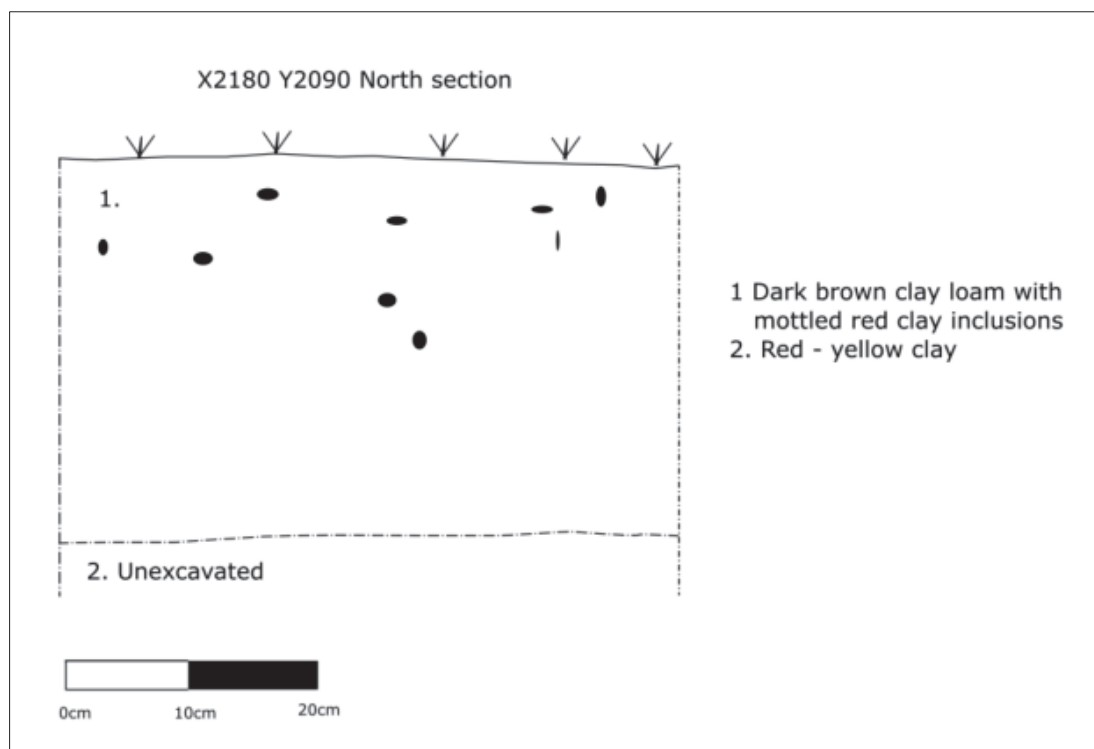
Test pit X2180 Y2090	
A1 Horizon	Depth: 0 – 320 mm
	pH: 6 ½
	Munsell: 5YR 3/2 dark reddish brown
	Description: Mid brown clay loam, with grass rootlets and mottled red clay inclusions.
B Horizon	Depth: >320 mm
	pH: 6
	Munsell: 2.5YR 4/8 red
	Description: Red-yellow clay



Figure 16: X2180 Y2090 east section



Figure 17: X2180 Y2090 west section



## 8.0 ARTEFACT ANALYSIS

### 8.1 Preamble

#### 8.1.1 Artefact analysis

The predominant aim of artefact analysis is to classify and quantify artefacts for the purposes of extracting meaningful data with which to characterise and compare assemblages. The main attributes of artefacts recorded included provenance details, raw material, typology, dimensions, proportion of cortex and weight. If applicable, artefacts were characterised as tool types, and information specific to cores (such as platform types and number of complete and partial flake scars) was also recorded.

For the purpose of attaining meaningful data, it is important that the categories assigned to characterise artefact attributes are neither unnecessarily complex (thereby confounding results and potential identification of trends and relationships), nor too broad (thereby not providing enough information).

Numerous classificatory schemes for stone artefacts exist, some which focus on the interpreted 'function' of the artefact, some which focus on the morphology of the artefact, and some which combine both approaches. This technical report does not include scope for supplementary investigation, such as use-wear or residue analysis. Without these, functional interpretation of the artefacts in the assemblages would be tenuous at best. As such, the following analysis section focuses on artefact morphology.

Classification of the raw material of artefacts is no less problematic than classifying the type of artefact. Lampert (1993) noted that, as well as there being significant variability possible within any single rock type, many raw material grades into one another in their naturally occurring seams and cobbles.

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This is commonly seen in chert, for example, due to chemical mixing during precipitation. In some cases, flakes produced from a single chert nodule may be different in colour (mineral composition) and texture. For this reason, it is often difficult to classify the raw materials of the artefacts (Lampert 1993:46).

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This technical report does not include scope for supplementary investigation, such as petrological analysis to determine the chemical makeup and potential source of raw materials. Therefore, though artefacts were initially catalogued into detailed raw material categories (chert, silcrete, chalcedony, quartz, quartzite, dolerite, mudstone, and granite), classes of raw material were grouped together for the purposes of analysis and comparison.

#### 8.1.2 Archaeological integrity

Interpretations of artefact assemblages are closely linked to the archaeological integrity of the deposit in which they are identified. Where significant taphonomic processes have disturbed an archaeological deposit, artefacts may have been displaced, removed, or added to the assemblage, altering the composition of the assemblage and the interpretation of past activities within the site. To mitigate against potential misinterpretations of human activity, it is necessary to assess the archaeological integrity of the deposits within each test area.

## 8.2 Artefact assemblage

### 8.2.1 Elizabeth Precinct test area 1

#### 8.2.1.1 Distribution and density

A total of 62 artefacts were retrieved from the 14.5 m<sup>2</sup> that were excavated within the EP1, resulting in an artefact density of 4.28 artefacts per m<sup>2</sup>. The highest concentration of artefacts was retrieved from X1120 Y1059.5 which yielded 16 artefacts for a density of 64 artefacts per m<sup>2</sup>. X1120 Y1059.5 is part of the 1 m x 1 m expansion of X1120 Y1060. The four excavation units excavated yielded a total of 46 artefacts, 74.19% of the total assemblage within EP1. Therefore, the area surrounding X1120 Y1060 is considered to be an artefact concentration.

The total weight of artefacts retrieved amounts to 15.59 grams (g), with the average weight of each artefact 0.25 g. The largest average artefacts (2.47g) was obtained from X1120.5 Y1060.

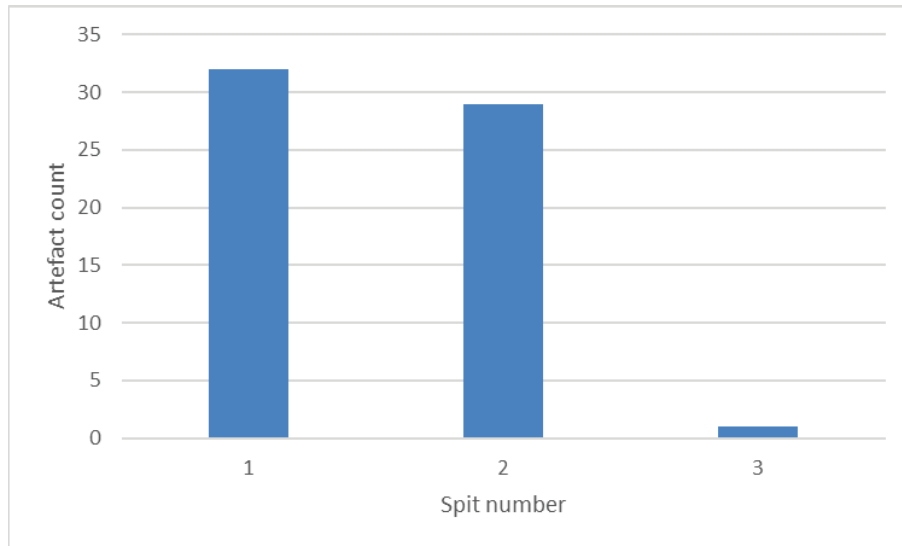
**Table 13: Summary of artefacts per excavation unit in EP1**

Pit	Count	Weight (g)	Average artefact weight (g)
X1030 Y1150	1	0.08	0.08
X1060 Y1150	1	0.29	0.29
X1090 Y1000	1	0.13	0.13
X1090 Y1120	1	0.16	0.16
X1120 Y1030	1	0.29	0.29
X1120 Y1120	2	0.9	0.45
X1120 Y1150	2	1.59	0.80
X1120 Y1059.5	16	12.15	0.76
X1120 Y1060	12	12.07	1.01
X1120.5 Y1059.5	10	12	1.20
X1120.5 Y1060	8	19.73	2.47
X1150 Y1090	3	3.85	1.28
X1150 Y1089.5	2	1.74	0.87
X1150.5 Y1090	2	1.24	0.62
<b>Total</b>	<b>62</b>	<b>15.59</b>	<b>0.25</b>

#### 8.2.1.2 Spit count

The majority (98.39%) of artefacts were obtained from the first two spits of the deposit (0 – 200 mm) with only a minor number (1.61%) coming from the third spit of the deposit (200 – 300 mm). As the assemblage was identified within a shallow deposit, it is likely that the artefacts have been subject to post-depositional damage by ploughing activity and livestock trampling.

**Figure 18: Artefact count per spit (EP1)**



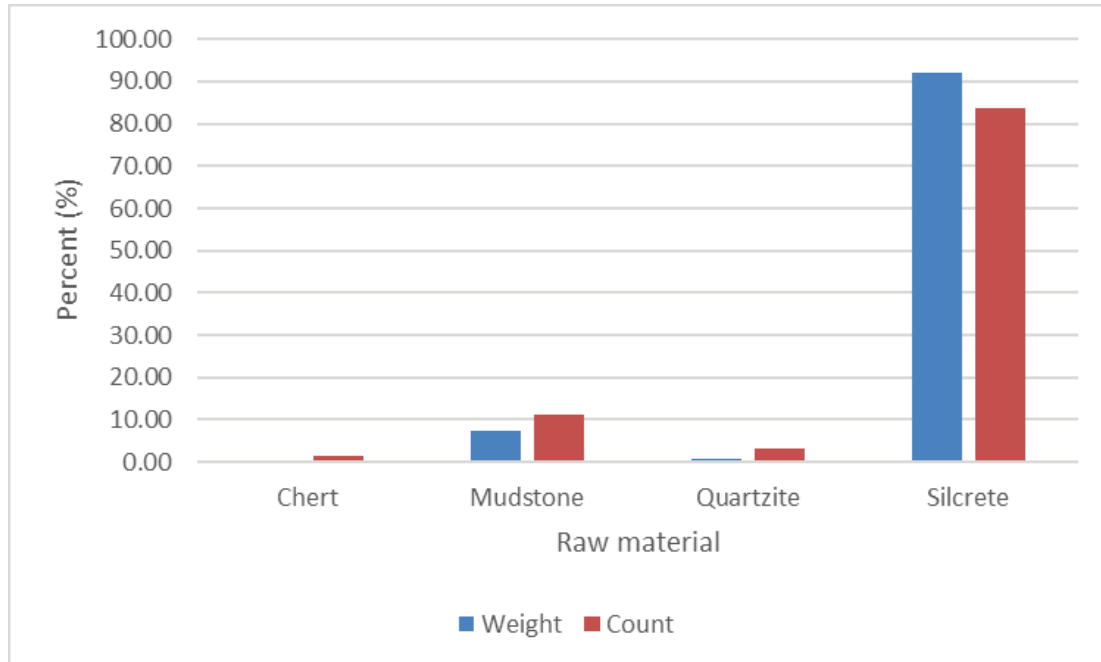
#### 8.2.1.3 Raw material

Raw materials present in the EP1 assemblage includes silcrete, chert, mudstone, and quartzite. Figure 19 below illustrates the proportion of raw material in the assemblage, represented by number of artefacts and by weight separately. Regardless of which criterion is used to quantify the raw material of the assemblage, silcrete is predominant throughout EP1. Silcrete accounts for n=52 artefacts and 83.87% of the assemblage. The remainder of the assemblage is comprised of mudstone (n=7; 11.29%), quartzite (n=2; 3.23%), and chert (n=1; 1.61%). Overall, the assemblage features a high variation of raw materials, indicative of high logistical mobility with the site occupants travelling far from the occupation site to acquire resources for artefact manufacture.

**Table 14: Summary of raw material types (EP1)**

Raw material	Total	Percentage (%)	Average weight (g)
Chert	1	1.61	0.08
Mudstone	7	11.29	0.68
Quartzite	2	3.23	0.23
Silcrete	52	83.87	1.17
<b>Total</b>	<b>62</b>	<b>100</b>	<b>1.07</b>

**Figure 19: Proportions of raw material (by weight and by number of artefacts) in assemblage from EP1**



#### 8.2.1.4 Typology

Types of artefacts present in the assemblage at EP1 include complete flakes (n=12; 19.35%), debris (n=5; 8.06%), transverse flake fragments (n=34; 54.84%), longitudinal flake fragments (n=2; 3.23%), core fragments (n=2; 3.23%), formal tools (n=5; 8.06%), a multiple platform core (n=1; 1.61%) and a retouched utilised piece (n=1; 1.61%). For the purposes of clarity in data presentation, longitudinal broken fragments (right and left), transverse broken flakes (proximal, medial, marginal, and distal broken flakes), and formal tools have been grouped together. See Table 15 for the full details of the artefact types.

Figure 20 below illustrates the proportions of each type of artefact retrieved from EP1. Flake fragments are indicative of site disturbance, where artefacts have been broken through trampling or past subsurface impact. As the assemblage is predominantly comprised of transverse flake fragments, it is likely that the area has been subject to post depositional site disturbance.

Debris and cores were identified within the assemblage, these are indicators that artefact manufacturing may have occurred on site. Artefacts that are the result of early stage reduction tend to feature long transverse margins and short longitudinal margins. As artefacts are prone to fracture along their shortest margin, longitudinal flake fragments can be indicative of early stage artefact manufacture. The high percentage of transverse flake fragments in the deposit indicates that the site is more likely characteristic of latter stage artefact manufacture processes.

Two geometric microliths (marginal fragments with backing) were identified within the assemblage. Experimental archaeology has indicated that geometric microliths may have been utilised as hafted incisors for woodworking (Robertson 2005).

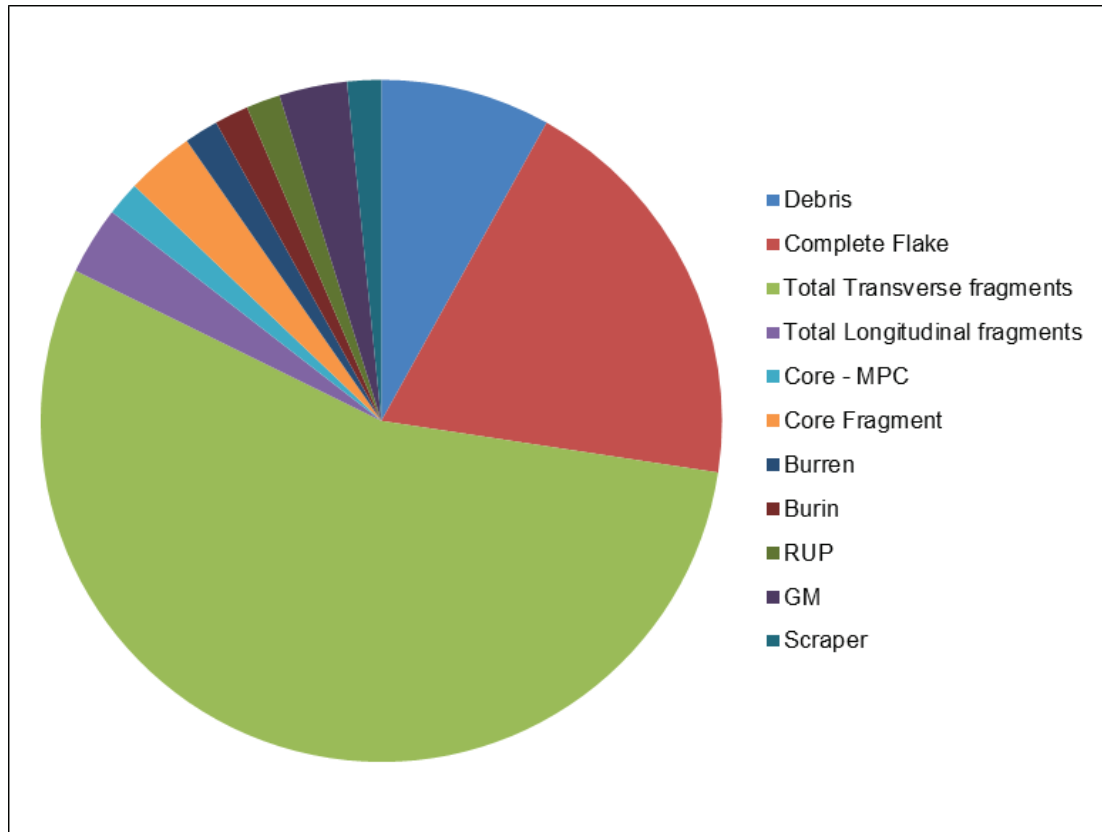
One scraper was identified within the assemblage, which can be used for skin-working activities. Additionally, one burren adze and one burin were identified, indicating that these tools may have been used for woodworking.

**Table 15: Artefact types from EP1**

Type	Total	Percentage (%)
Debris	5	8.06
Complete Flake	12	19.35
Flake Fragment Proximal	13	20.97
Flake Fragment Medial	3	4.84
Flake Fragment Distal	4	6.45
Flake Fragment Marginal	14	22.58
Longitudinally broken left	2	3.23
<i>Total Transverse fragments</i>	<b>34</b>	<b>54.84</b>
<i>Total Longitudinal fragments</i>	<b>2</b>	<b>3.23</b>
Core - MPC	1	1.61
Core Fragment	2	3.23
Burren	1	1.61
Burin	1	1.61
RUP	1	1.61
GM	2	3.23
Scraper	1	1.61
<b>Total</b>	<b>62</b>	<b>100.00</b>



Figure 20: Proportions of artefact types in the assemblage from EP1



#### 8.2.1.5 Cores

A total of three cores were identified within the assemblage, one MPC and two core fragments. Core fragments feature partial scars which are incomplete due to a break in the material. As the entirety of the object and portions of the scars are missing it is not possible to make meaningful interpretations from core fragments. The MPC featured a total of eight scars and only 5% remnant cortex. This indicates that while only a small amount of the material was exploited for artefact manufacture, the majority (95%) of the surface area of the object was modified to prepare the material for artefact manufacture.

#### 8.2.1.6 Cortex

Both riverine and terrestrial cortex was identified within the assemblage, indicating that raw material was sourced from at least two locations. The average percentage of remnant terrestrial cortex on the artefacts was 51.25 %, while the artefacts with riverine cortex had an average of 18.75%. This indicates that the raw materials acquired from a riverine landscape were worked more than those from the terrestrial environment. The study area is bordered by South Creek, the most likely location for the source of the riverine raw materials.

**Table 16: Summary of cortex (EP1)**

	Number	Max%	Min%	Mean %	SD
<b>All artefacts with cortex</b>	<b>16</b>	<b>100</b>	<b>5</b>	<b>43.125</b>	<b>33.46</b>
<i>Riverine Cortex</i>	4	30	5	18.75	10.31
<i>Terrestrial Cortex</i>	12	100	10	51.25	34.78
Complete flakes with terrestrial cortex	5	80	10	28	29.5
MPCs with riverine cortex	1	5	5	5	–

#### 8.2.1.7 Retouch

A total of 25 flakes featured evidence of tertiary stage reduction, with retouch on at least one of their margins. Three of these artefacts featured backing, indicating that the objects had been or manufactured to be hafted on to a handle. Backed artefacts have been known to be used for skin-working, bone-working, butchery, hunting and feather preparation, as well as work associated with plant materials such as wood and/or starchy plants (Robertson 2005).

**Table 17: Summary of retouched flakes (EP1)**

Retouch	Count	Mean	Max	Min	SD
Left lateral margin	13	13.68	38.99	4.81	9.10
Right lateral margin	11	12.57	32.94	3.18	7.8
Proximal margin	3	10.50	14.09	7.45	3.35
Distal margin	4	9.35	17.17	3.35	6.93
Unknown margin	3	12.07	21.53	5.52	8.39
Number of retouched margins	34	1.36	3	1	0.57
<b>Total Number of artefacts with retouch</b>	<b>25</b>				

#### 8.2.1.8 Reduction stages

The majority of the assemblage was identified as the product of secondary stage reduction with no artefacts featuring 100% cortex on the dorsal surface, which would be indicative of primary stage reduction. A total of 25 artefacts featured retouch and are products of tertiary stage reduction, totalling 40.32% of the assemblage. One artefact was found to meet the technical criteria to be identified as a blade. However, three blade fragments, five Pointed Trigonal Blades (PTB) and one PTB fragment were also identified within the assemblage. Overall, the assemblage is characteristic of middle to later stage artefact reduction.

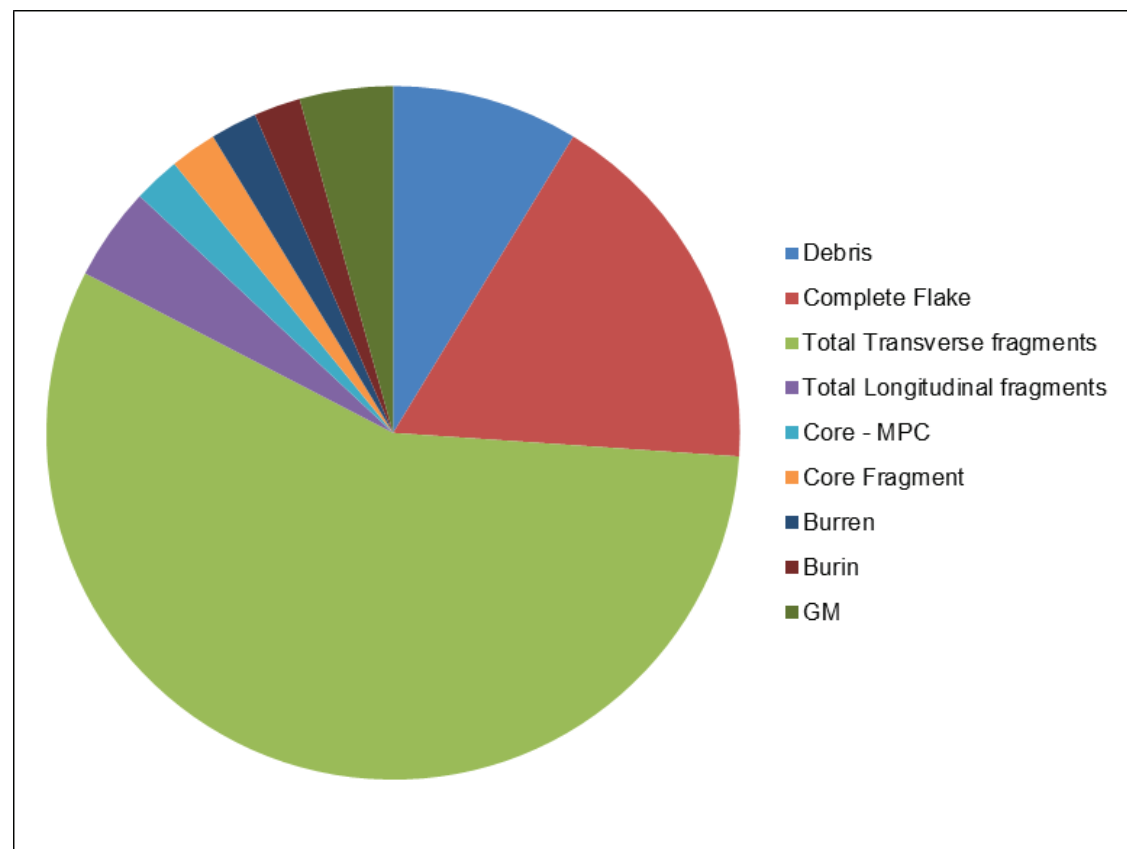
#### 8.2.1.9 Artefact concentration

The artefact concentration identified within EP1 contains debris, cores and longitudinal fragments, all of which are the by-products of artefact manufacturing progresses. As a result, the EP1 – concentration may be a reduction area.

**Table 18: Artefact types from EP1 – concentration**

Type	Total	% of pop
Debris	4	8.70
Complete Flake	8	17.39
Total Transverse fragments	26	56.52
Total Longitudinal fragments	2	4.35
Core - MPC	1	2.17
Core Fragment	1	2.17
Burren	1	2.17
Burin	1	2.17
GM	2	4.35
<b>Total</b>	<b>46</b>	<b>100.00</b>

**Figure 21: Proportions of artefact types in the assemblage from EP1 – concentration, n=46**



## 8.2.2 Elizabeth Precinct test area 2

### 8.2.2.1 Distribution and density

A total of 27 artefacts were retrieved from the 7.5 m<sup>2</sup> that were excavated within EP2, resulting in an artefact density of 3.6 artefacts per m<sup>2</sup>. The highest concentration of artefacts was retrieved from X2180 Y2090 which yielded 8 artefacts for a density of 32 artefacts per m<sup>2</sup>. The second highest concentration of artefacts was retrieved from X2210 Y2090 which yielded six artefacts for a density of 24 artefacts per m<sup>2</sup>. As X2180 Y2090 and X2210 Y2090 are located 30 m apart, it is possible that the area between these two pit locations constitutes an artefact concentration.

The total weight of artefacts retrieved amounts to 71.46 g, with the average weight of 2.65 g. The largest individual artefact (8.71 g) was obtained from X2180 Y2060 and was identified as puncturer. However, the largest average artefact weight across EP2 was obtained from X2180 Y2090 (5.75 g) which included a relatively high proportion of worked glass artefacts.

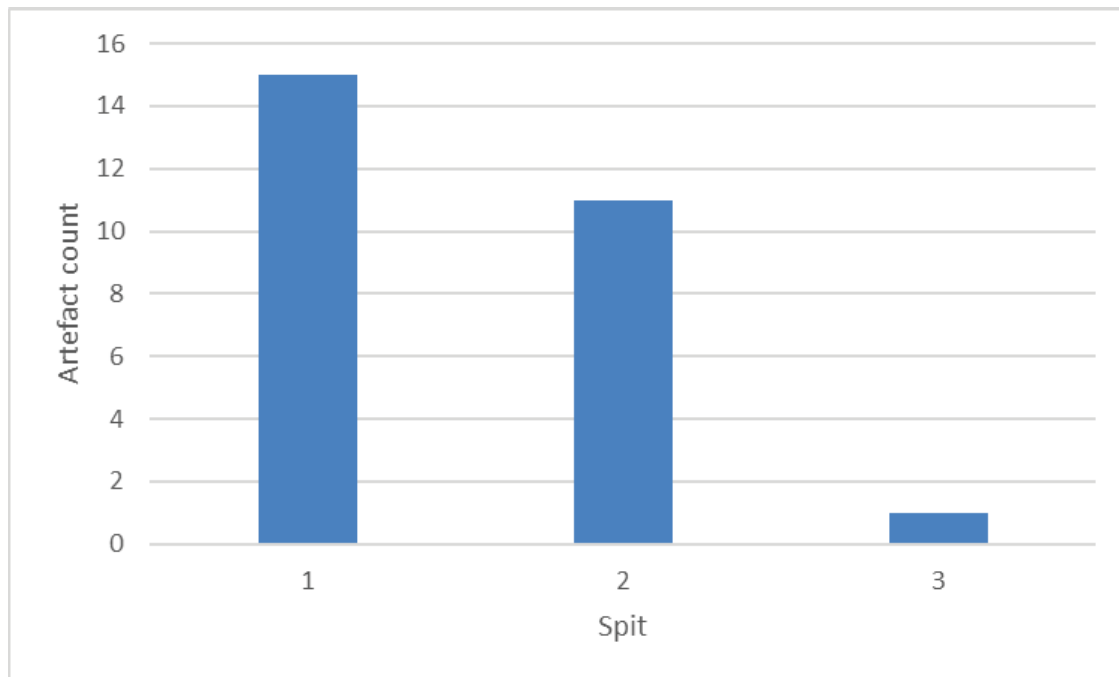
**Table 19: Summary of artefacts per test pit (EP2)**

Pit	Count	Weight (g)	Average artefact weight (g)
X2030 Y2090	2	2.01	1.01
X2090 Y2030	1	0.95	0.95
X2090 Y2150	1	0.71	0.71
X2120 Y2060	2	1.67	0.84
X2120 Y2120	1	0.86	0.86
X2150 Y2060	2	1.32	0.66
X2150 Y2090	3	6.2	2.07
X2180 Y2060	1	8.71	8.71
X2180 Y2090	8	45.96	5.75
X2210 Y2090	6	3.07	0.51
<b>Total</b>	<b>27</b>	<b>71.46</b>	<b>2.65</b>

### 8.2.2.2 Spit count

All artefacts were obtained from the first two spits of the deposit (0 – 200 mm). As the assemblage was identified within a shallow deposit, it is likely that the artefacts have been subject to post-depositional damage by ploughing activity and livestock trampling.

Figure 22: Artefact count per spit at EP2



### 8.2.2.3 Identification of worked glass artefacts

Classification of flaked glass is problematic due to the tendency of glass to break incidentally, with a product that is morphologically like the product of intentional knapping (Boot 1967, Beaumont 1961).

Goward (2011) proposed a classification scheme of glass artefacts in Australia which synthesised criteria from previous research (Runnels 1976; Allen and Jones 1980; Patterson 1999; Harrison 1996; 2000; Williamson 2004; Veth and O’Conner 2005). Goward’s classification breaks down these synthesised criteria into primary and secondary categories. Goward’s scheme requires that either 100% of the primary criteria, or 50% of each the primary and secondary criteria must be satisfied in order to confidently identify a glass Aboriginal artefact (Goward 2011:50 - 65). Goward’s (2011) criteria are detailed in Table 20 below.

Table 20: Classification of glass artefacts based on Goward’s (2011: 50 – 65) criteria

Criteria	Discussion
Primary – Glass dateable to 18 <sup>th</sup> or 19 <sup>th</sup> century manufacturing date.	<p>As only fragmentary or worked bottle glass pieces are present, makers marks and evidence of manufacturing (bottle morphology, mould seems) are not present. However, the thick black glass is consistent with a mid-19<sup>th</sup> century manufacturing date.</p> <p><b>Recovered glass fragments are considered to fulfill this primary criterion.</b></p>
Primary – Presence of macroscopic edge damage or residue	<p>While there is macroscopic edge damage, low power microscopy was not conducted during this analysis to confirm whether edge damage was indicative of use or of incidental damage. No residue of tool working was identified on the edges of glass fragments; as the glass fragments had been wet sieved it is unlikely that residues would have survived.</p> <p><b>Recovered glass fragments may fulfill this primary criterion.</b></p>

Criteria	Discussion
Primary – Presence of ‘convincing’ retouch	<p>Some glass artefacts show evidence of retouch of their working edges and show evidence that retouch has been continuous (i.e. successive or overlapping retouch on a working edge).</p> <p><b>Recovered glass fragments are considered to fulfill this primary criterion</b></p>
Primary – Presence of technological attributes related to stone artefact manufacturing techniques	<p>Some glass fragments show evidence of bulbs of percussion, acute exterior platform angles and stress fractures. These are characteristics of intentional human manufacture of the fragments.</p> <p><b>Recovered glass fragments are considered to fulfill this primary criterion</b></p>
Secondary – Absence of attributes related to unintentional artefact damage	<p>There is evidence of damage on outer points of artefacts as well as some large, isolated and irregular sized flake scars on some glass fragments. Striations are present on the surface of some glass fragments which may be indicative of machine damage.</p> <p><b>Recovered glass fragments do not fulfill this secondary criterion.</b></p>
Secondary – Absence of taphonomic processes related to incidental flaking	<p>The Elizabeth Precinct site is known to have been operated as a dairy and as an orchard for over 150 years and soil conditions indicate heavy ploughing and plant removal. These processes can cause incidental damage which can be confused with intentional working on glass fragments.</p> <p><b>Recovered glass fragments do not fulfill this secondary criterion.</b></p>
Secondary – Evidence of a reduction sequence	<p>Three glass fragments were identified as cores or partial cores, with remaining worked glass fragments identified as partial flakes or worked debitage. These artefact types are indicative of a reduction sequence. In addition, glass fragments of the same original material are present in the assemblage which do not show any evidence of being worked – which is consistent with the “worked fragment reduction strategy” of glass working described by Goward (2011: 15 – 16; 61-62).</p> <p><b>Recovered glass fragments are considered to fulfill this secondary criterion.</b></p>
Secondary – Presence of associated contemporary material culture	<p>A small number of silcrete flake fragments were identified in the test pits which recovered worked glass artefacts. Some small unworked mid-19<sup>th</sup> century ceramic fragments were also identified in these test pits; ceramic fragments showed no sign of being worked.</p> <p>The presence of unmodified European discarded ceramic in association with glass fragments is not considered to fulfill this criterion, as contact period sites often contain European refuse and this is not diagnostic on its own (Goward 2011: 63). However, the presence of small numbers of worked silcrete tools does support this criterion.</p> <p><b>Recovered glass fragments are considered to fulfill this secondary criterion.</b></p>



Criteria	Discussion
Secondary – Availability of associated historical or ethnographic evidence	<p>The Elizabeth Precinct site was once the location of James Badgerys 'Exeter Farm', an early 19<sup>th</sup> century dairy homestead and horse stud. A history of the Badgery family provides an account of the family assenting to a small group of Aboriginal people to camp on South Creek within their property, prior to the Badgery family leaving the property by the mid-1830s (Hardy 1989: 19).</p> <p>While this account is not directly corroborated, it is consistent with Aboriginal camping on their land once it was alienated by early European settlers during the early 19<sup>th</sup> century.</p> <p>As the account of the Badgerys permitting Aboriginal camps on his property is not confirmed, the historical evidence is considered to be weakly corroborative of this criterion.</p> <p><b>Recovered glass fragments may fulfill this secondary criterion</b></p>
Secondary – Presence of thick glass	<p>One recovered glass fragment was a remnant portion of a thick bottle base, with some of the curved heel and push up of the base of the bottle present.</p> <p><b>Recovered glass fragments are considered to fulfill this secondary criterion.</b></p>

Overall, the identified glass fragments fulfilled three of the four primary criteria, with the remaining primary criterion not yet firmly established. The recovered glass fragments also fulfill three of the six secondary criteria and may fulfill one additional secondary criterion.

Based on Goward's threshold of criteria for identification (either all of the primary criteria, or at least half of both the primary and secondary criteria being fulfilled), the glass fragments identified in EP2 would be considered to be intentionally manufactured tools.

As glass artefacts, have been identified within the assemblage, at least one occupation period associated with the overall artefact assemblage must be dated to within the post-contact period.

#### 8.2.2.4 Raw material

Raw materials present in EP2 assemblage includes chert, crystal quartz, glass, granite, mudstone and silcrete. The assemblage is primarily comprised of silcrete (n=13, 48.15%) and glass (n=9, 33.33%). The remainder of the assemblage is made up of chert (n=2, 7.41%), crystal quartz (n=1, 3.70%), granite (n=1, 3.70%), and a piece of mudstone (n=1, 3.70%). Overall, the assemblage features a high variation of raw materials, indicative of high logistical mobility with the site occupants travelling far from the occupation site to acquire resources for artefact manufacture.

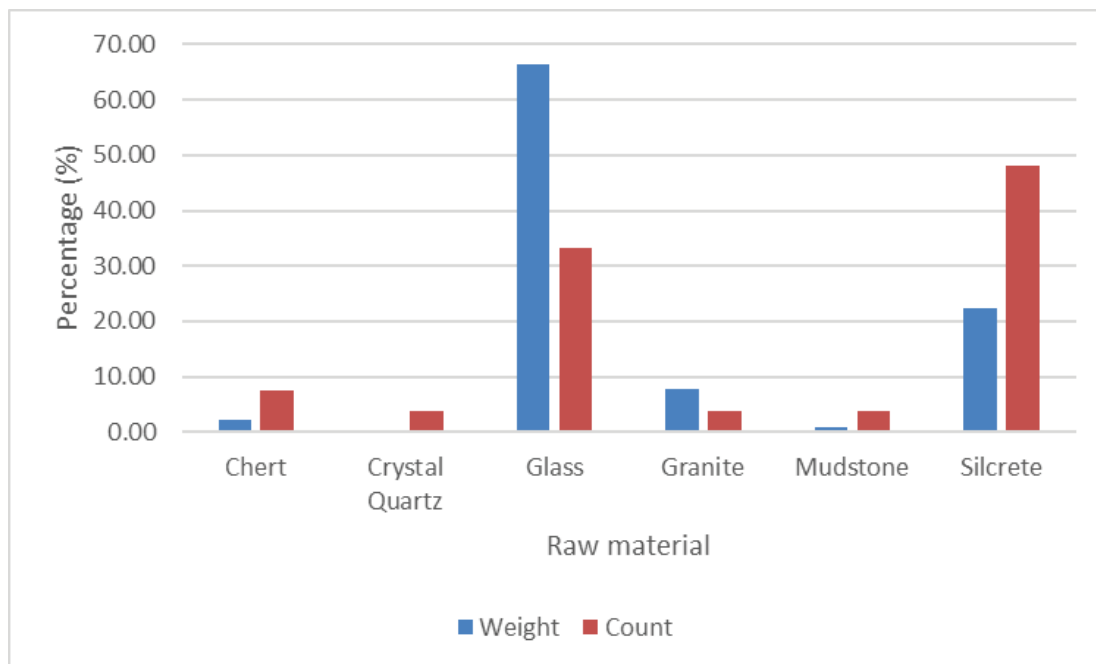
**Table 21: Summary of raw material types**

Raw material	Total	Percentage (%)	Average weight (g)
Chert	2	7.41	1.67
Crystal Quartz	1	3.70	0.09
Glass	9	33.33	47.46
Granite	1	3.70	5.5

Raw material	Total	Percentage (%)	Average weight (g)
Mudstone	1	3.70	0.71
Silcrete	13	48.15	16.03
<b>Total</b>	<b>27</b>	<b>100</b>	<b>71.46</b>

Figure 23 below illustrates the proportion of raw material in the assemblage, represented by number of artefacts and by weight separately. While silcrete constitutes the majority of the artefact assemblage in terms of individual pieces, the glass artefacts comprise the majority of the assemblage weight. The comparison of weight cannot be used as an indicator of comparative artefact sizes as glass is a denser material than stone (glass = 2.5kg/m<sup>2</sup>, stone 1.6kg/m<sup>2</sup>).

**Figure 23: Proportions of raw material (by weight and by number of artefacts) in assemblage from EP2**



#### 8.2.2.5 Typology

Types of artefacts present in the assemblage at EP2 include complete flakes (n=6, 22.22%), transverse fragments (n=10, 37.04%), longitudinal fragments (n=3, 11.11%), an MPC (n=1, 3.70%), core fragments (n=3, 11.11%), a tula (n=1, 3.70%), a puncturer (n=1, 3.70%), a geometric microlith (n=1, 3.70%), and a scraper (n=1, 3.70%). For the purposes of clarity in data presentation, Longitudinal broken fragments (right and left) and transverse broken flakes (proximal, medial, marginal, and distal broken flakes) have been grouped together. See Table 22 for the full details of the artefact types.

Figure 20 below illustrates the proportions of each type of artefact retrieved from EP2. Flake fragments are indicative of site disturbance, where artefacts have been broken through trampling or past subsurface impact. As the assemblage is predominantly comprised of transverse flake fragments, it is likely that the area has been subject to post depositional site disturbance.

Artefacts that are the result of early stage reduction tend to have a long transverse margin and short longitudinal margin. As artefacts are prone to fracture along their shortest margin, longitudinal flake fragments are indicative of early stage artefact manufacture. The high percentage of transverse flake fragments in the deposit indicates that the site is predominantly characteristic of later stage artefact manufacture processes.

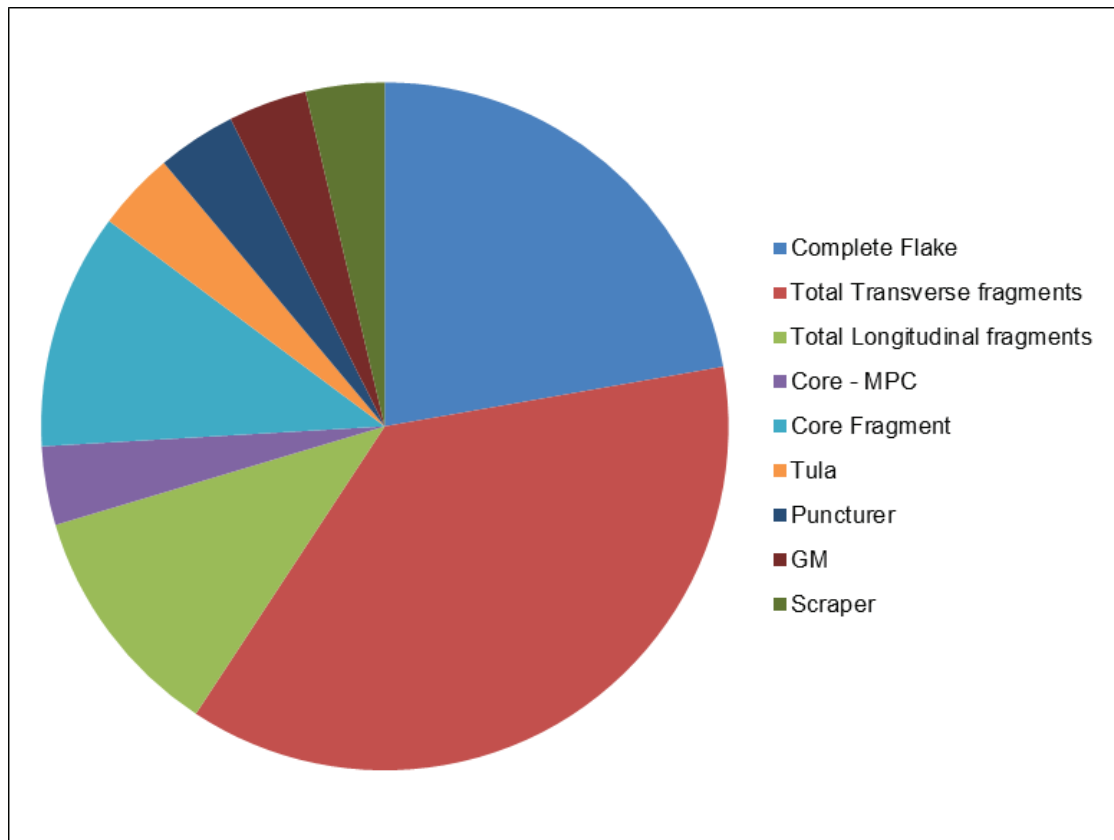
One geometric microlith (marginal fragment with backing) was identified within the assemblage. Experimental archaeology has indicated that geometric microliths may have been utilised as hafted incisors for woodworking (Robertson 2005).

One scraper was identified within the assemblage, which can be indicative of skin-working activities. Additionally, one tula adze and puncturer were identified, indicating that woodworking may have occurred on site.

**Table 22: Artefact types from EP2**

Type	Total	Percentage (%)
Complete Flake	6	22.22
Flake Fragment Proximal	2	7.41
Flake Fragment Medial	1	3.70
Flake Fragment Distal	1	3.70
Flake Fragment Marginal	6	22.22
Longitudinally broken left	1	3.70
Longitudinally broken right	2	7.41
<i>Total Transverse fragments</i>	10	37.04
<i>Total Longitudinal fragments</i>	3	11.11
Core - MPC	1	3.70
Core Fragment	3	11.11
Tula	1	3.70
Puncturer	1	3.70
GM	1	3.70
Scraper	1	3.70
<b>Total</b>	<b>27</b>	<b>100.00</b>

Figure 24: Proportions of artefact types in the assemblage from EP2, n=27



#### 8.2.2.6 Cores

A total of four cores were identified within the assemblage, one MPC and three core fragments. Core fragments feature partial scars which are incomplete due to a break in the material. As the entirety of the object and portions of the scars are missing it is not possible to make meaningful interpretations from core fragments. The MPC featured a total of two scars and no remnant cortex. This indicates that while only a small amount of the material was exploited for artefact manufacture, the majority (100%) of the surface area of the object was modified to prepare the material for artefact manufacture.

#### 8.2.2.7 Cortex

Of the 27 artefacts identified within EP2, no remnant cortex was identified. As a result, it is likely that the artefacts within EP2 are the product of latter stage artefact manufacturing processes which have removed all cortex. Without the remnant cortex it is unclear if the raw materials have been sourced from a terrestrial or riverine environment.

#### 8.2.2.8 Retouch

A total of nine flakes featured evidence of tertiary stage reduction, with retouch on at least one of the margins. Three of these artefacts featured backing, indicating that the objects had been or manufactured to be hafted on to a handle. Backed artefacts are known to have been used for skin-working, bone-working, butchery, hunting and feather preparation, as well as work associated with plant materials such as wood and/or starchy plants (Robertson 2005).

**Table 23: Summary of retouched flakes (EP2)**

Retouch	Count	Mean	Max	Min	SD
Left lateral margin	5	12.29	18.13	2	6.58
Right lateral margin	2	16.25	22.17	10.33	8.37
Proximal margin	3	13.60	16.49	9.95	3.34
Distal margin	1	13.22	13.22	13.22	–
Unknown margin	2	23.80	29.46	18.14	8
Number of retouched margins	13	1.44	3	1	0.73
<b>Total Number of artefacts with retouch 9</b>					

#### 8.2.2.9 Reduction stages

The majority of the assemblage was identified as the product of secondary stage reduction with no artefacts featuring 100% cortex on the dorsal surface, indicative of primary stage reduction. A total of nine artefacts featured retouch and are products of tertiary stage reduction, totalling 33.33% of the assemblage. No artefacts were found to meet the technical criteria to be identified as a blade, however, one micro-blade was identified within the assemblage. Overall, the assemblage is characteristic of mid to later stage artefact reduction.

#### 8.2.2.10 Artefact concentration

The artefact concentration identified within EP2 contains cores and longitudinal fragments, indicative of artefact manufacturing progresses. In addition, glass artefacts were only found within the EP2 concentration and were not identified anywhere else within EP1 or EP2. As a result, the EP2 – concentration may have been a reduction area for the manufacture of glass artefacts.

**Table 24: Artefact types from EP2 – concentration**

Type	Total	Percentage (%)
Complete Flake	5	35.71
Total Transverse fragments	3	21.43
Total Longitudinal fragments	2	14.29
Core - MPC	1	7.14
Core Fragment	2	14.29
Scraper	1	7.14
<b>Total</b>	<b>14</b>	<b>100.00</b>

Figure 25: Proportions of artefact types within the EP2 – concentration

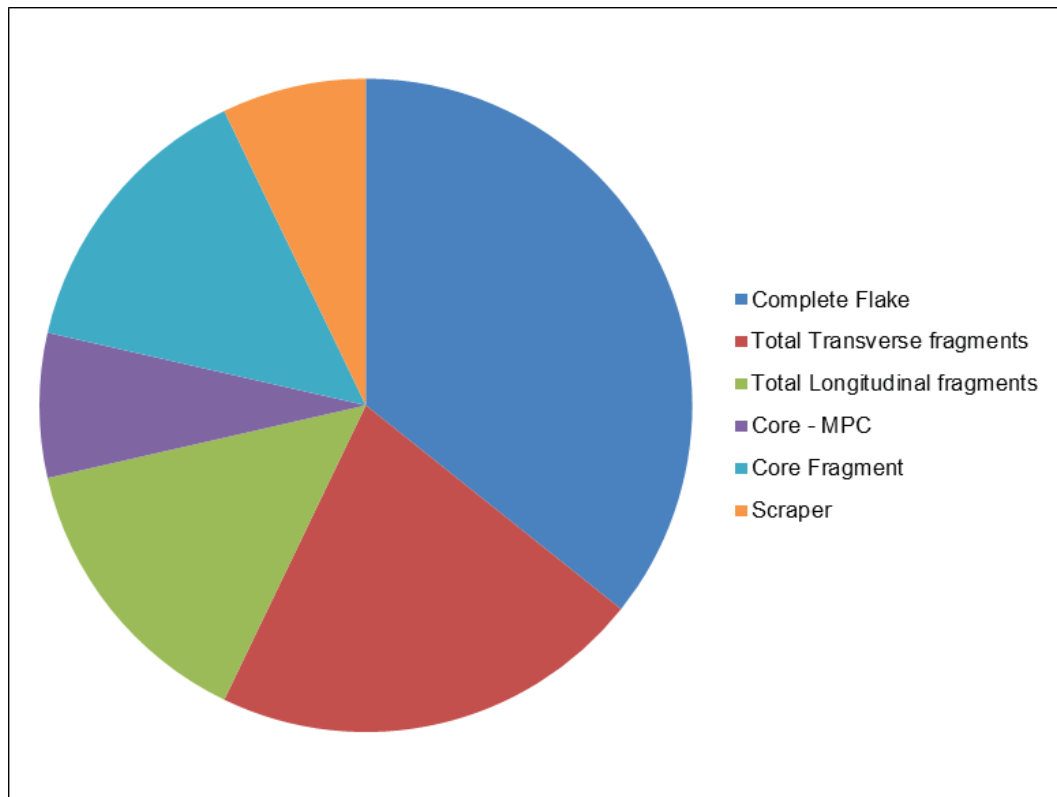
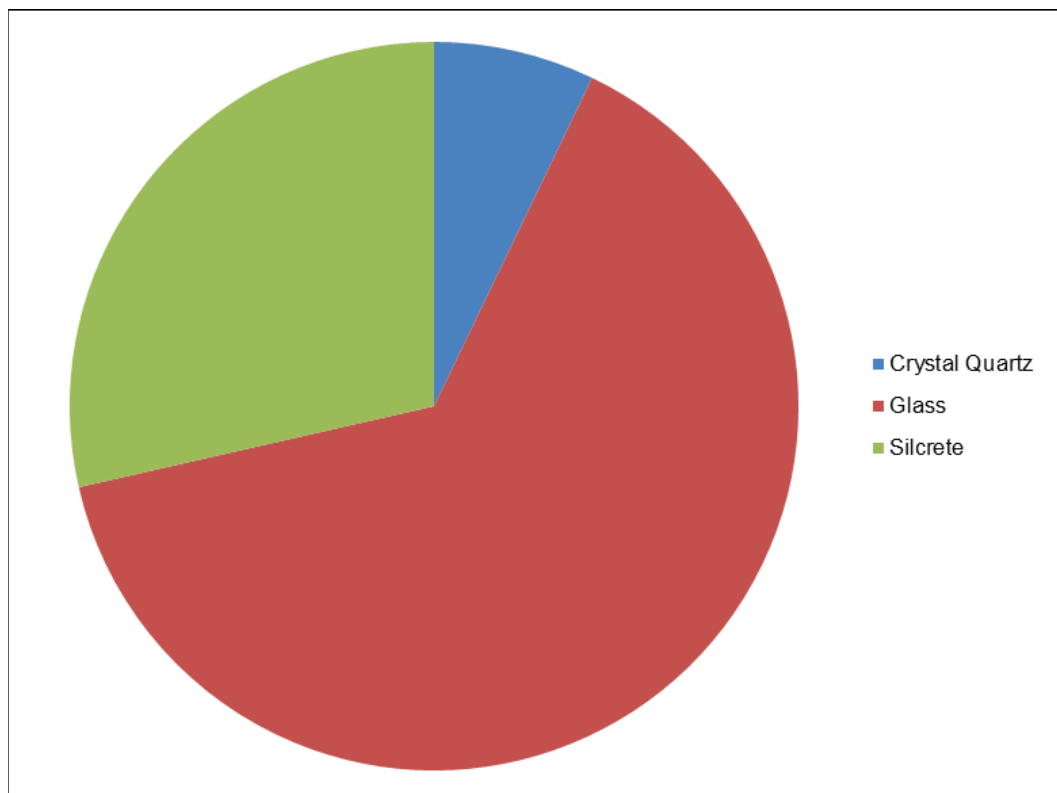


Figure 26: Proportions of raw materials within the EP2 – concentration





### 8.2.3 Summary of the retrieved artefact assemblage

#### 8.2.3.1 Distribution

A total of 89 artefacts were retrieved from the 88 excavation units which were excavated during the testing program, yielding an artefact density of 4.05 artefacts per square metre across the two test areas. See Table 25 for a summary of artefact density across the study area.

Two artefact concentrations were identified, one within EP1 and one within EP2. The concentration located within EP1 contains debris, longitudinal flake fragments, cores and formal tools. The EP1 concentration is possibly an artefact reduction area where formal tools may have been produced.

The concentration located within EP2 may be a glass reduction area, as the glass artefacts were only located in the part of the site and include glass cores, complete flakes of glass and a glass scraper.

**Table 25: Density of artefacts recovered across EP1 and EP2**

Area	Number of artefacts	Area excavated (square metre)	Density (artefacts / square metre)
EP1	62	14.5	4.28
EP2	27	7.5	3.6
<b>Total</b>	<b>89</b>	<b>22</b>	<b>4.05</b>

#### 8.2.3.2 Artefact types

It was identified that artefact types were consistent across the two testing areas, with transverse flake fragments dominating the assemblages from both locations. Both assemblages also featured similar portions of complete flakes, longitudinal flake fragments, core fragments, geometric microliths and scrapers. Both testing areas featured relatively high portions of formal tools (Table 26).

EP1 featured debris, which is characteristic of stone artefact manufacture. The EP2 assemblage also showed unworked broken glass, of the same material identified within the worked glass sample; this is considered possibly indicative of a 'worked fragment reduction strategy' described by Goward (2011: 15 – 16).

Figure 27: Summary of artefact types across the study area

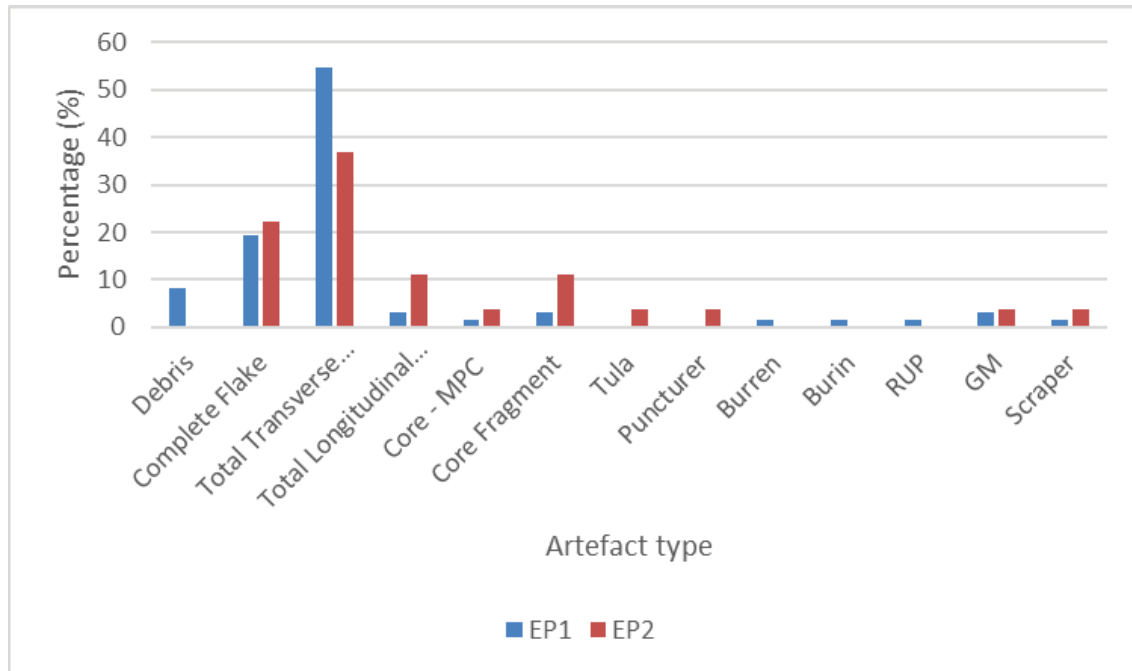


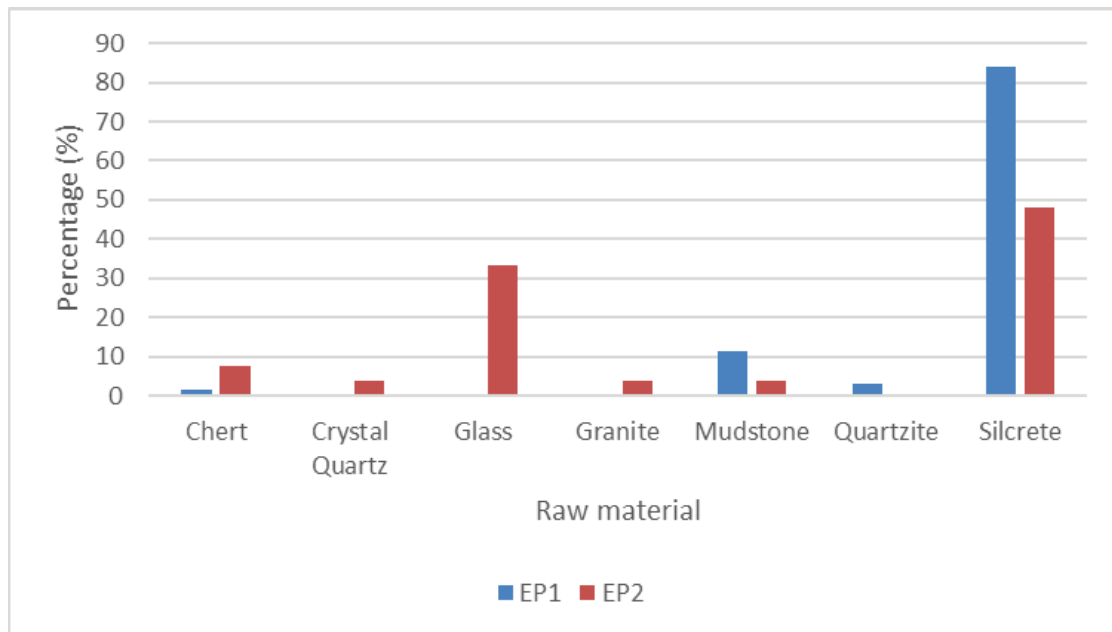
Table 26: Summary of formal tools

Area	Blades	Other formal tools	Total formal tools	Percent of assemblage (%)
EP1	10	5	15	24.19
EP2	1	4	5	18.52
<b>Total</b>	<b>11</b>	<b>9</b>	<b>20</b>	<b>22.47</b>

### 8.2.3.3 Artefact materials

It was identified that raw material types were consistent across the two test areas, with silcrete dominating the assemblages from both locations. EP2 featured a six raw material types, while EP1 only featured four. Glass artefacts were only located within EP2, which would date a portion of the assemblage to the post-contact period.

Figure 28: Summary of raw material types across the study area



#### 8.2.3.4 Retouch

Retouched artefacts were frequent across the study area with 40.32% of all artefacts from EP1 featuring retouch and 33.33% of all artefacts in EP2 featuring retouch. The high frequency of retouched objects across the study area (38.2 %) is representative of later stage artefact reduction processes.

Figure 29: Summary of retouch

Area	Artefacts with retouch	Percentage (%)
EP1	25	40.32
EP2	9	33.33
<b>Total</b>	<b>34</b>	<b>38.20</b>

#### 8.2.3.5 Cortex

Artefacts with remnant cortex were infrequent across the study area, with no remnant cortex identified in EP2 and only 25% of the artefacts retrieved from EP1 featuring remnant cortex. The lack of cortex indicates that the artefacts from across the study area are representative of later stage artefact reduction processes. This is supported by the high frequency of formal tools and retouch.

Figure 30: Summary of cortex

Area	Artefacts with cortex	Percentage (%)
EP1	16	25.81
EP2	0	0
<b>Total</b>	<b>16</b>	<b>17.98</b>

#### 8.2.3.6 Conclusion

Due to the consistency in artefact types and distribution, it is likely that the assemblages obtained from EP1 and EP2 are representative of a single site subject to multiple phases of occupation. However, it is likely that historical disturbance associated with ploughing and other post depositional processes have spatially homogenised the deposit with limited ability to discern chronological occupation patterns from the results of the current testing program.

Further investigation of the artefactual resource, and the stratigraphic conditions of artefact concentrations in EP1 and EP2, would be explored during the salvage excavation program.

## 9.0 DISCUSSION

### 9.1 Site integrity and extent

The current test excavation program investigated a variety of landforms across the study area including crest, slope and drainage line features. Excavation identified disturbance across all landform areas with aerial evidence of ploughing and orcharding confirmed through observation of the soil profile and artefact morphology.

The soil profile was largely homogenous with limited evidence of soil development suggesting that the A horizon soils had been rotated through its agricultural use. Additional evidence of soil disturbance was noted with the underlying B horizon clay mixed into the A horizon across several excavation units and evidence of furrows noted within several excavation unit sections.

Given the moderately sloped nature of the majority of the test areas, it is considered that the site would have been subject to colluvial and fluvial forces. This may explain the presence of the heavier glass artefacts at the lower point of the slope landform.

The artefact assemblage also provides evidence of disturbance with the high proportion of flake fragments indicative of post depositional disturbance of the assemblage.

While the evidence of disturbance is considerable across the site, the identification of reduction areas suggest that the overall geographic distribution of the artefact assemblage may remain relatively intact.

### 9.2 Artefact assemblage and Aboriginal settlement history

#### 9.2.1 Local archaeological context

While the nature of the test excavation sampling methodology and noted disturbance across the site limited the ability to identify specific occupation phases it is considered likely that the site was occupied over repeated occasions. Given the presence of glass artefacts at least one occupation phase of the site must date to the post-contact period. The absence of organic preservation at the site shows that ethnographically attested toolkits fashioned of wood, bark, palm leaves and shell were not archaeologically identified. Bone, which can survive in poor organic preservation environments, was not identified during test excavation.

While this inconsistency may relate to biases in the historical record, scientific dating of sites within close proximity to the study area suggest Aboriginal occupation of the area at least 2,000 years before present. Based on this and the inconsistency with the historic record it is considered likely that the site was subject to repeated periods of occupation.

The assemblage has been assessed as relating to a high level of object specialisation as noted by the high proportions of formal tools, backing and retouch. The presence of a grinding groove site approximately 300 m north east of the current study area further suggests specialised activities were undertaken within the vicinity of the study area.

Investigation of Elizabeth Precinct Pad 03 (AHIMS ID 45-5-5234) located directly adjacent to Badgerys Creek may provide further clarification in the varying land use across the study area as well as a more complete understanding of the relationship between South Creek, the surrounding drainage lines and the archaeological record.

### 9.2.2 Site comparison

Charcoal samples obtained from a nearby sites at Badgerys Creek Airport and at the CSR Advanced Manufacturing Hub recovered several radiocarbon dates indicating occupation of those sites as early as 2275 BP. Both of these sites are located within 2 km of the study area. Radiocarbon dates from within a 20 km radius of the study area indicate that occupation has been consistent from 41,700 years BP to at least 1,580 years BP (Table 27).

Historical records indicate that Aboriginal people were present within the study area in 1809 when the European settlement at Exeter Farm is likely to have further contributed to dispossession of the local Aboriginal groups.

**Table 27: Radiocarbon dates from the regional context**

Site	Date	Location (distance and direction from study area)
Badgerys Creek airport	Multiple dates ranging up to 2275 $\pm$ 35 BP	1 km south west
CSR Advanced Manufacturing Hub	2160 $\pm$ 20 BP	2 km south
Wattle Grove 3-2	1,580 $\pm$ 60 BP	19.1 km southeast
Regentville RS1	12,100 $\pm$ 800 BP	14.7 km northwest
Jamieson Creek 1	7,010 $\pm$ 110 BP	16.2 km northwest
Power Street Bridge 2	5,957 $\pm$ 74 BP	15.5 km northeast
Plumpton Ridge	2,250 $\pm$ 80 BP	17.2 km northeast
Lapstone Creek	3,650 $\pm$ 100 BP	18.17 km northwest
Cranebrook Terrace	41,700 +3000/-2000 BP	18.3 km northwest

#### 9.2.2.1 Artefact distribution

Sites at Badgerys Creek airport identified the highest level of artefact density across the three sites with investigation focused on locally elevated landscapes on the margins of valley floors or 'swampy meadows'. Substantial variability in artefact density was identified across the testing areas with several knapping floors identified suggesting repeated phases of occupation. Several formal tools were also identified within the assemblage suggesting a level of task specialisation associated with occupation in these areas.

The assemblage at Elizabeth Drive contains several similarities to Badgerys Creek including the presence of a variety of artefact types and lithologies as well as isolated artefact concentrations / knapping floors. While subject to a higher level of disturbance, the high proportion of retouch, backing and formal tools within the artefact assemblage associated with Elizabeth Drive suggests a higher level of task specialisation when compared to the Badgerys Creek airport assemblage.

The CSR Advanced Manufacturing Hub site by comparison identified the lowest density of the three sites and was interpreted as a site which was frequently occupied for shorter term activities.



**Table 28: Comparison of artefact densities at nearby sites**

Salvage area	Artefact density per square metre
Elizabeth Precinct	4.05
Badgerys Creek Airport TA 1	6.00
Badgerys Creek Airport TA 2	22
Badgerys Creek Airport TA 3	0
Badgerys Creek Airport TA 4	16
CSR Advanced Manufacturing Hub	1.56
<b>Average</b>	<b>2.81</b>

#### 9.2.2.2 Raw materials

The comparison of raw materials between the Badgerys Creek Airport, the CSR Advanced Manufacturing Hub and Elizabeth Precinct sites has found that the raw materials which comprise the assemblage are largely consistent across the wider area with an overall propensity for silcrete across all three sites.

While there is a greater variety of materials overall at the Badgerys Creek Airport site which included artefacts made of quartz, chert, quartzite, fine-grained siliceous, hornfel, igneous rock, sandstone and sediment, the proportionate presence of these artefacts is significantly lower (<7% of the overall assemblage) when compared to Elizabeth Precinct. While the Elizabeth Precinct site is also dominated by silcrete, alternate raw material types including chert, mudstone, granite, glass and quartz make up a larger proportion of the overall artefact assemblage (~27%).

Comparatively, the CSR Advanced Manufacturing Hub site contains a smaller overall variety of raw material types compared to both Badgerys Creek Airport and the Elizabeth Precinct sites. Artefacts at this site were dominated by silcrete and mudstone with small quantities of chert, quartz and quartzite.

The high proportion of diverse raw materials suggest that that occupation at Elizabeth Precinct was subject to higher levels of logistical mobility compared to CSR Advanced Manufacturing Hub and Badgerys Creek Airport.

#### 9.2.2.3 Summary

The comparison of results from the current study area, the CSR Advanced Manufacturing Hub site and Badgerys Creek Airport site identify a variety of occupation strategies across different portions of the Badgerys Creek landscape. In particular the results note varying land use intensity including different levels of specialisation in resource utilisation consistent with varying levels of residential and logistical mobility.

## 10.0 NEWLY IDENTIFIED SITES

### 10.1 Newly identified subsurface sites

The test excavation program identified that areas of PAD (EP PAD 01 and EP PAD 02) were artefact bearing and that the ground in this area should be considered the location of one continuous area of subsurface artefact concentration. This site is described below.

#### 10.1.1 Elizabeth Precinct Artefact Scatter 02 (EP AS 02) (AHIMS ID 45-5-5236)

**Site type:** Subsurface artefact scatter

**Centroid:** MGA 94 Zone 56 293200 mE 6249565 mN

**Site length:** 460 m

**Site width:** 220 m

Elizabeth Precinct Artefact Scatter 02 is comprised of a low-density artefact scatter identified within a transitional landscape between a low-lying crest and the surrounding slope landform descending towards South Creek.

While the site is located across multiple landform elements, it has been assessed as part of the same wider site based on the homogenous nature of the deposit and identified similarities in artefact types across both test areas. The site extends across the former site extents of Elizabeth Precinct PAD 01 (AHIMS ID 45-5-5236) and Elizabeth Precinct PAD 02 (AHIMS ID 45-5-5235) and supersedes the former site extent of both PADs.

Excavation recovered 89 artefacts from 22 m<sup>2</sup> of excavation with two artefact concentrations across the testing area. Artefacts were recovered between 0-300 mm depth. One artefact concentration recovered 48 artefacts across a 1 x 1m test pit and included several formal tools and artefacts associated with stone tool reduction processes. The second concentration was comprised of two excavation units which recovered a high proportion of glass artefacts which is unique to that portion of the site. Both concentrations are considered to potentially be associated with reduction activities.

Figure 31: View of slope leading to crest in western portion of site



Figure 32: View of spur with dammed drainage line in background in eastern portion of site



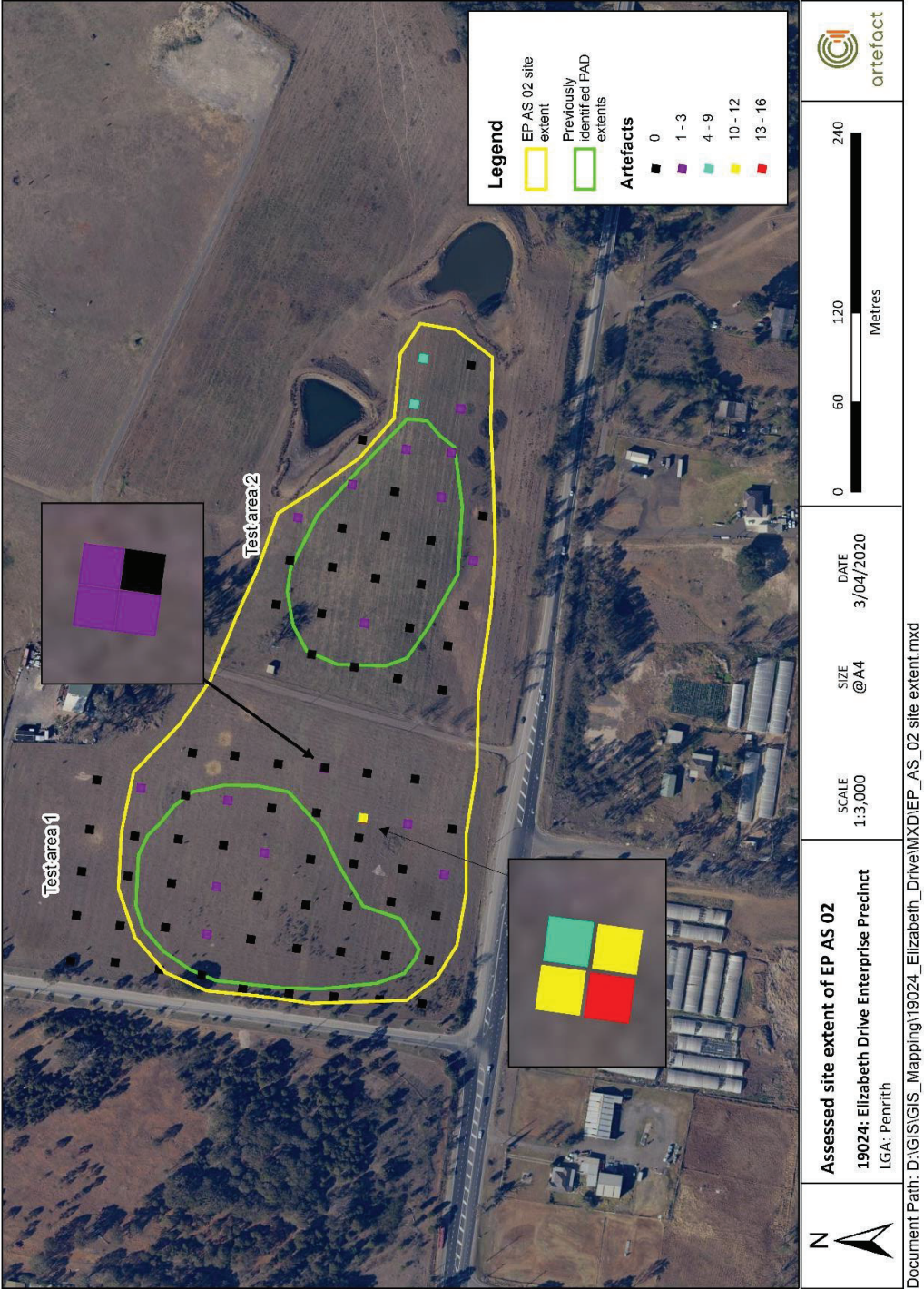
Figure 33: Silcrete artefacts recovered from EP AS 02



Figure 34: Glass artefacts recovered from EP AS 02



Figure 35: Assessed site extent of EP AS 02





## 10.2 Newly identified surface sites

Two surface artefact sites were identified during test excavation. These sites were recorded in accordance with the Code of Practice and are summarised below.

### 10.2.1 Elizabeth Precinct Isolated Find 04 (EP IF 04) (AHIMS ID 45-5-5331)

**Site type:** Isolated Find

**Centroid:** MGA 94 Zone 56 0293336 mE 6249535 mN

**Site length:** 0.5 m

**Site width:** 0.5 m

Elizabeth Precinct Isolated Find 04 is located within a sloped landform on a small exposure. The site contained one red silcrete proximal flake and measured 23 mm long x 15 mm wide x 7 mm depth. The site is located approximately five metres from the Aboriginal excavation unit X1090 Y1090.

**Figure 36: Silcrete artefact EPIF04**



**Figure 37: Location of EPIF04**



### 10.2.2 Elizabeth Precinct Isolated Find 05 (EP IF 05) (AHIMS ID 45-5-5330)

**Site type:** Isolated Find

**Centroid:** MGA 94 Zone 56 0293287 mE 6249478 mN

**Site length:** 0.5 m

**Site width:** 0.5 m

Elizabeth Precinct Isolated Find 05 is located within a sloped landform associated with a drainage line in the southern end of the study area. The site is also located with an exposure associated with erosion. The site contains an orange silcrete single medial flake fragment measuring 14 mm long x 76 mm wide x 5 mm deep.

Figure 38: Artefact in EPIF05

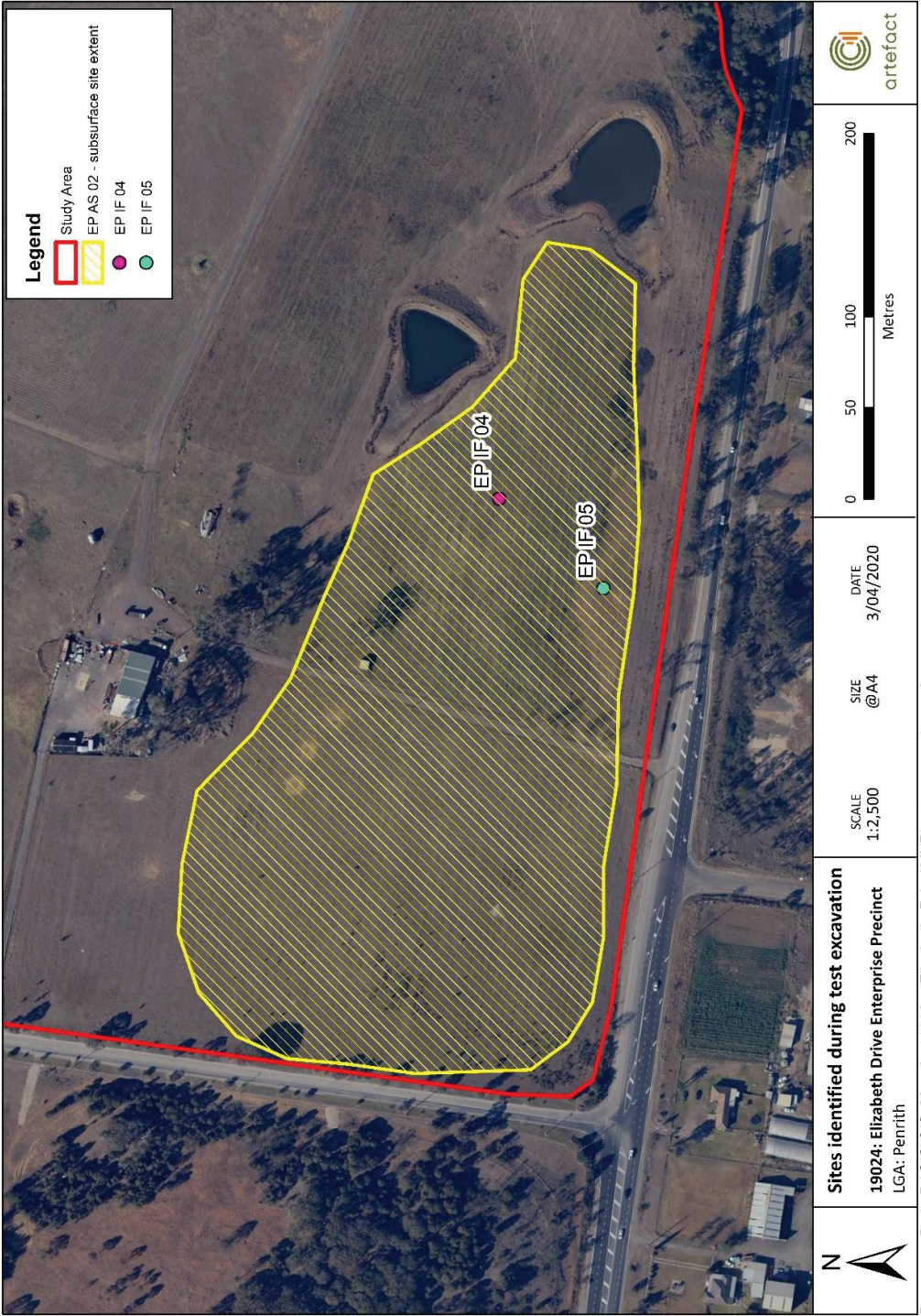


Figure 39: Location of EPIF05





Figure 40: Sites identified as a result of test excavation program



## 11.0 SIGNIFICANCE ASSESSMENT

### 11.1 Assessment criteria

This significance assessment has been undertaken in accordance with the Guide to investigating, assessing and reporting on Aboriginal cultural heritage in New South Wales (OEH 2011).

Archaeological significance refers to the archaeological or scientific importance of a landscape or area. This is characterised by using archaeological criteria such as archaeological research potential, representativeness and rarity of the archaeological resource and potential for educational values. These are outlined below:

- Research potential: does the evidence suggest any potential to contribute to an understanding of the area and/or region and/or state's natural and cultural history?
- Representativeness: how much variability (outside and/or inside the subject area) exists, what is already conserved, how much connectivity is there?
- Rarity: is the subject area important in demonstrating a distinctive way of life, custom, process, land-use, function or design no longer practised? Is it in danger of being lost or of exceptional interest?
- Education potential: does the subject area contain teaching sites or sites that might have teaching potential?

Cultural values and significance of the study area are discussed in the ACHAR (Artefact Heritage 2020b).

### 11.2 Archaeological significance assessment

The archaeological test excavation program within the study area identified three new sites including one subsurface and two surface sites. Assessment of the scientific significance of the artefact site locations considers the following aspects of the test excavation results:

- Presence of a variety of artefact types and raw material types
- Identifiable and representative features within the artefact assemblage
- Potential for artefact assemblages to answer questions about raw material sourcing and site use
- Evidence of landform disturbance and assessed site integrity of both surface and subsurface sites

A summary of the archaeological significance of sites identified during test excavation is presented in Table 29.

**Table 29: Significance assessment**

Site name (AHIMS ID)	Research potential	Representativeness	Rarity	Education potential	Overall significance assessment
EP AS 02 (AHIMS ID 45-5-5236)	Moderate	High	High	High	High
EP IF 04 (AHIMS ID 45-5-5331)	Low	Low	Low	Low	Low
EP IF 05 (AHIMS 45-5-5330)	Low	Low	Low	Low	Low

#### 11.2.1 EP AS 02 (AHIMS ID 45-5-5236)

EP AS 02 (AHIMS ID 45-5-5236) is a low-density artefact scatter located across a low crest and slope landform. Artefacts associated with the site exhibit a high level of variety including a high proportion of formal tools, the use of several raw material types and heat treatment. The assemblage is considered to be highly representative of a variety of land use which is considered to be rare in the local context. Given the variety of artefact types represented, the assemblage is considered to contain high education potential associated with the morphology of the artefact assemblage. The presence of worked glass artefacts indicate part of the site was formed post-contact and is relatively rare. The site is however considered to have been subject to disturbance associated with post-depositional processes including ploughing and orcharding. The limited site integrity reduces the research potential of the site.

#### 11.2.2 EP IF 04 (AHIMS ID 45-5-5331)

EP IF 04 (AHIMS ID 45-5-5331) is an isolated silcrete proximal flake fragment located on the surface of a moderately disturbed context. As a silcrete flake, the artefact is considered to be a common example of the artefact type in the region and therefore exhibits low rarity values. The artefact is not considered to be a good example of its type based on its lack of easily identifiable features. The artefact is therefore considered to exhibit low representative values and education potential when compared to the wider region.

#### 11.2.3 EP IF 05 (AHIMS ID 45-5-5330)

EP IF 05 (AHIMS ID 45-5-5330) is a silcrete isolated surface artefact located within an erosion scour within an existing drainage line landform. The site is considered to be subject to moderate disturbance associated with fluvial forces during rainfall events. Based on the site's location within a drainage line it is considered to contain limited research potential. As an isolated find, the site is considered to be common in the local region and contain low representative values. The artefact is not considered to be a good example of its type based on its lack of easily identifiable features. The artefact is therefore considered to exhibit low representative values and education potential when compared to the wider region.

## 12.0 IMPACT ASSESSMENT

### 12.1 Proposed works

This proposal seeks approval for a Waste Disposal Facility at 1669-1732 Elizabeth Drive, Badgerys Creek, for the disposal of clean waste spoil material resulting from the construction of nearby CSSI and development projects.

The site is zoned RU2 – Rural Landscape and E2 – Environmental Conservation noting works are occurring within the RU2 Rural Landscape zone only, under the Penrith LEP 2010.

The proposed development seeks approval for a Waste Disposal Facility including, though not limited to, the following:

- The demolition and removal of existing rural structures;
- Termination, connection or augmentation of services and utilities in the site;
- Dewatering and decommissioning of existing farm dams;
- Clearing of existing vegetation on the subject site;
- The importation, placement and compaction of clean waste spoil material;
- Ancillary onsite earthworks associated with the waste disposal facility; and,
- Construction of stormwater, erosion and sediment control systems.

Overall, the bulk of the landform in the study area would be heavily modified to provide adequate ground for the construction of the waste disposal facility. The majority of the study area would be subject to different amounts of cut and fill, as illustrated in Figure 41.

Stage 1 would not involve any works within the E2 Environmental Conservation Area within the flood terrace of South Creek on the property. Future development stages for the Elizabeth Precinct project which would involve works in this area would be subject to separate cultural heritage assessment and approvals as required.

### 12.2 Impacts of the proposed works

The current test excavation program has provided evidence for the presence of subsurface Aboriginal objects within the study area as well as identifying two new surface artefact sites. A summary of the impacts to sites identified during test excavation is provided in Table 30. Impact to sites within the study area identified during the ASR (Artefact 2019b) for the project are not assessed as part of the current report.

This assessment is based on the impact area, which includes the areas required for construction of the proposed waste facility.

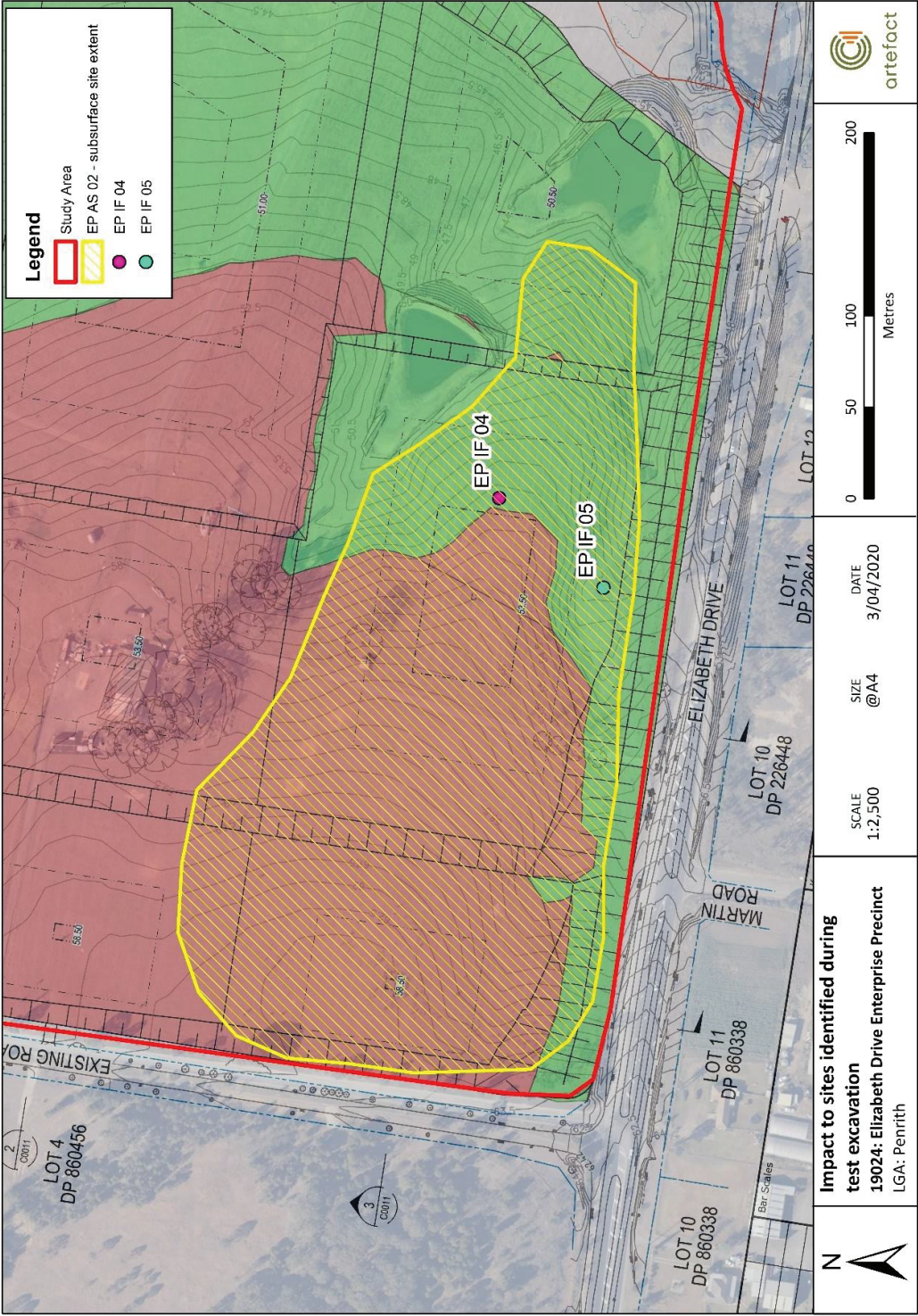
Further information regarding impact to the Aboriginal archaeological sites identified within the study area is located within the ACHAR for the project. (Artefact Heritage 2020b).

**Table 30: Impact assessment**

Site name (AHIMS ID)	Type of harm	Degree of harm	Consequence of harm
EP AS 02 (AHIMS ID 45-5-5236)	Direct	Total	Total loss of value
EP IF 04 (AHIMS ID 45-5-5331)	Direct	Total	Total loss of value
EP IF 05 (AHIMS ID 45-5-5330)	Direct	Total	Total loss of value



Figure 41: Location of sites in relation to impact area





## 13.0 MITIGATION AND MANAGEMENT

### 13.1 Guiding principles

The overall guiding principle for cultural heritage management is that where possible Aboriginal sites should be conserved. If conservation is not practicable, measures should be taken to mitigate against impacts to Aboriginal sites.

The nature of the mitigation measures recommended is based on the assessed significance of the sites. The final recommendations would also be informed by cultural significance, which will be discussed by the Aboriginal community in their responses during the next stage of consultation, outlined in the ACHAR (Artefact Heritage 2020b).

### 13.2 Mitigation measures

#### 13.2.1 Aboriginal Heritage Impact Permit (AHIP)

An area based AHIP should be obtained for those portions of the study area subject to impact by the proposed works. In accordance with the ACHAR guide, an ACHAR will need to be completed as part of the AHIP application process.

As conservation is not practicable for the proposed works, surface collection of surface artefacts within the impact area (including those identified as part of the ASR (Artefact 2019b)) and targeted archaeological salvage of EP AS 02 (AHIMS ID 45-5-5236) should be undertaken.

Based on the assessed high level of scientific significance, the aim of archaeological salvage as a condition of the AHIP would be to mitigate impacts by further investigating the areas of high density identified during test excavation. Targeted salvage would be an appropriate mitigation measure based on the lack of integrity identified across the wider site extent and the lack of ability to reduce proposed impacts associated with future use.

### 13.3 Long term management of test excavation artefact assemblage

Long term management of the test excavation assemblage was discussed with the Aboriginal stakeholders during consultation completed as part of the ACHAR with reburial identified as the preferred long term management option.

Artefacts recovered from the test excavation will be managed in accordance with the methodology provided in the ACHAR

## 14.0 CONCLUSIONS AND RECOMMENDATIONS

The program of Aboriginal archaeological test excavation was conducted under the Code of Practice at the Elizabeth Precinct site. A total of 88 0.5 m x 0.5 m test pits were excavated across two areas of PAD. The test excavation identified:

- 89 sub-surface Aboriginal artefacts recovered from 23 artefact-bearing test pits
- One high artefact density test pit recovered 48 Aboriginal stone artefacts
- Two test pits recovered Aboriginal glass artefacts, indicating post-1788 Aboriginal use of the site

The following new sites were identified during the test excavation program:

- One new subsurface site, EP AS 02 (AHIMS ID 45-5-5236) was identified during subsurface testing. EP AS 02 (AHIMS ID 45-5-5236) was identified as a low-density artefact scatter with two discrete areas of artefact concentration of high significance
- Two newly recorded surface sites (EP IF 04 (AHIMS ID 45-5-5331) and EP IF 05 (AHIMS ID 45-5-5330) were identified during the survey. These isolated sites are of low significance
- These sites would be impacted by proposed construction works for the Elizabeth Drive

It is therefore recommended that:

- An ACHAR should be prepared to support an AHIP application to DPIE for impacts to Aboriginal sites for the Elizabeth Drive waste facility project. Aboriginal sites that would be impacted include the following sites identified during the ASR and Aboriginal archaeological test excavation program:
  - Elizabeth Precinct Artefact Scatter 01 (EP AS 01) (AHIMS ID 45-5-5233)
  - Elizabeth Precinct Artefact Scatter 02 (EP AS 02) (AHIMS ID 45-5-5236)
  - Elizabeth Precinct Isolated Find 01 (EP IF 01) (AHIMS ID 45-5-5232)
  - Elizabeth Precinct Isolated Find 02 (EP IF 02) (AHIMS ID 45-5-5231)
  - Elizabeth Precinct Isolated Find 03 (EP IF 03) (AHIMS ID 45-5-5230)
  - Elizabeth Precinct Isolated Find 04 (EP IF 04) (AHIMS ID 45-5-5331)
  - Elizabeth Precinct Isolated Find 05 (EP IF 05) (AHIMS ID 45-5-5330)
- Salvage excavation must be conducted in accordance with the salvage excavation methodology outlined in the ACHAR, as a condition of the AHIP and should concentrate on the two areas of artefact concentration within the EP AS 02 (AHIMS ID 45-5-5236) site identified in this ATER report
- Following completion of archaeological investigation, analysis and reporting, artefacts retrieved from the test excavation should be reburied in accordance with the reburial methodology provided in the ACHAR

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## 16.0 APPENDICES



16.1 Appendix A: Excavation unit characteristics summary

Pit #	# artefacts	Distance to Drainage Line (m)	Distance to South Creek (m)	Landform	depth (mm)	Easting	Northing
EP1 X1000 Y1000	0	177	553	Slope	320	293021.21	6249507.49
EP1 X1030 Y1000	0	147	520	Slope	300	293050.29	6249502.68
EP1 X1060 Y1000	0	118	491	Slope	220	293079.82	6249498.22
EP1 X1090 Y1000	1	89	465	Slope	250	293107.71	6249492.61
EP1 X1120 Y1000	0	60	434	Slope	155	293137.9	6249487.17
EP1 X1000 Y1030	0	183	558	Slope	340	293023.93	6249535.84
EP1 X1030 Y1030	0	154	525	Slope	250	293053.17	6249531.71
EP1 X1060 Y1030	0	120	491	Slope	270	293089.44	6249528.17
EP1 X1090 Y1030	0	101	466	Slope	400	293111.08	6249520.54
EP1 X1120 Y1030	1	72	439	Slope	270	293141.52	6249516.87
EP1 X1150 Y1030	0	48	407	Slope	200	293171.42	6249511.98

Pit #		# artefacts	Distance to Drainage Line (m)	Distance to South Creek (m)	Landform	depth (mm)	Easting	Northing
EP1	X1000 Y1060	0	197	463	Crest	180	293025.85	6249566.4
EP1	X1030 Y1060	0	165	531	Crest	170	293056.03	6249561.84
EP1	X1060 Y1060	0	140	501	Slope	230	293086.12	6249557.17
EP1	X1090 Y1060	0	116	475	Slope	190	293114.81	6249553.13
EP1	X1105 Y1060	0	103	455	Slope	250	293131.91	6249549.73
EP1	X1120 Y1059.5	16	95	449	Slope	240	293145	6249547
EP1	X1120 Y1060	12	92	441	Slope	240	293145	6249547
EP1	X1120.5 Y1059.5	10	95	449	Slope	240	293145	6249547
EP1	X1120.5 Y1060	8	95	449	Slope	240	293145	6249547
EP1	X1150 Y1060	0	79	414	Slope	180	293175	6249544
EP1	X1000 Y1090	0	212	569	Crest	220	293028.17	6249596.29
EP1	X1030 Y1090	0	185	538	Crest	255	293058.08	6249591.07
EP1	X1060 Y1090	0	160	511	Crest	260	293087.27	6249585.15

Pit #		# artefacts	Distance to Drainage Line (m)	Distance to South Creek (m)	Landform	depth (mm)	Easting	Northing
EP1	X1090 Y1090	0	138	481	Crest	290	293117.79	6249581.93
EP1	X1120 Y1090	0	118	453	Slope	310	293148.88	6249578.06
EP1	X1150 Y1089.5	2	104	420	Slope	225	293178.61	6249572.83
EP1	X1150 Y1090	3	105	424	Slope	225	293178.61	6249572.83
EP1	X1150.5 Y1089.5	0	104	420	Slope	225	293178.61	6249572.83
EP1	X1150.5 Y1090	2	104	420	Slope	225	293178.61	6249572.83
EP1	X1000 Y1120	0	228	578	Crest	340	293030.91	6249627.42
EP1	X1030 Y1120	0	200	545	Crest	155	293064.17	6249621.82
EP1	X1060 Y1120	0	179	518	Crest	290	293092.96	6249617.12
EP1	X1090 Y1120	1	153	491	Crest	270	293122.03	6249612.76
EP1	X1120 Y1120	0	129	464	Slope	310	293152.03	6249607.98
EP1	X1150 Y1120	0	109	431	Slope	245	293181.65	6249603.52
EP1	X1002 Y1150	0	221	580	Crest	200	293040.13	6249654.7

	Pit #	# artefacts	Distance to Drainage Line (m)	Distance to South Creek (m)	Landform	depth (mm)	Easting	Northing
EP1	X1030 Y1150	1	193	552	Crest	220	293067.69	6249651.3
EP1	X1060 Y1150	1	165	525	Crest	195	293099.49	6249644.67
EP1	X1090 Y1150	0	139	501	Crest	150	293127.26	6249640.28
EP1	X1120 Y1150	2	109	470	Slope	200	293157.04	6249637.16
EP1	X1150 Y1150	0	88	441	Slope	270	293187.03	6249632.6
EP1	X1002 Y1180	0	214	592	Crest	140	293044.05	6249682.97
EP1	X1030 Y1180	0	189	566	Crest	130	293072.18	6249678.92
EP1	X1060 Y1180	0	158	538	Crest	150	293101.79	6249674.9
EP1	X1090 Y1180	0	125	508	Crest	170	293131.14	6249670.33
EP1	X1120 Y1180	0	215	602	Slope	250	293160.59	6249665.53
EP1	X1150 Y1180	0	185	460	Slope	NA	293189.39	6249661.22
EP1	X1002 Y1210	0	188	580	Crest	130	293048.77	6249712.59
EP1	X1030 Y1210	0	219	618	Crest	195	293073.28	6249709.35

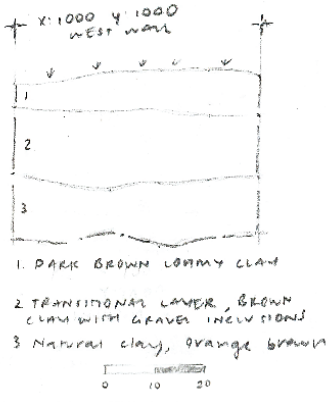

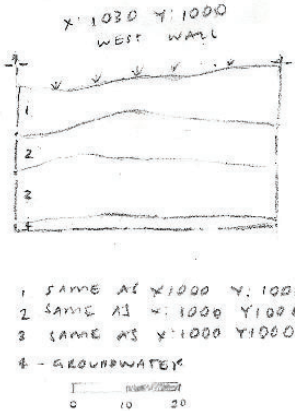

Pit #		# artefacts	Distance to Drainage Line (m)	Distance to South Creek (m)	Landform	depth (mm)	Easting	Northing
EP1	X1060 Y1210	0	156	447	Crest	185	293106.52	6249704.19
EP1	X1090 Y1210	0	126	524	Slope	220	293133.37	6249699.56
EP1	X1120 Y1210	2	96	494	Slope	210	293165.4	6249695.37
EP1	X1002 Y1240	0	219	620	Crest	250	293049.79	6249742.35
EP1	X1030 Y1240	0	188	591	Crest	160	293080.23	6249738.57
EP1	X1060 Y1240	0	158	567	Crest	190	293109.65	6249734.99
EP1	X1090 Y1240	0	133	539	Slope	100	293137.63	6249729.61
EP1	X1120 Y1240	0	100	512	Slope	210	293170.87	6249724.79
EP2	X2030 Y2090	2	55	327	Slope	260	293275.74	6249545.87
EP2	X2150 Y2090	3	56	210	Slope	170	293392.03	6249518
EP2	X2180 Y2090	9	44	180	Slope	290	293422.33	6249512.55
EP2	X2210 Y2090	6	31	154	Slope	242	293453.09	6249506.45
EP2	X2000 Y2090	0	69	355	Slope	170	293246.34	6249552.66

Pit #	# artefacts	Distance to Drainage Line (m)	Distance to South Creek (m)	Landform	depth (mm)	Easting	Northing
EP2 X2060 Y2090	0	54	297	Slope	200	293305.79	6249538.42
EP2 X2090 Y2090	0	62	267	Slope	241	293333.98	6249531.82
EP2 X2120 Y2090	0	64	239	Slope	315	293363.83	6249525.59
EP2 X2120 Y2060	2	33	224	Slope	200	293360.06	6249494.55
EP2 X2150 Y2060	2	24	193	Slope	135	293389.92	6249487.55
EP2 X2180 Y2060	1	23	166	Slope	120	293419.21	6249481.53
EP2 X2090 Y2060	0	30	250	Slope	187	293331.12	6249501.47
EP2 X2210 Y2060	0	19	137	Slope	140	293448.23	6249474.72
EP2 X2000 Y2060	0	46	347	Slope	170	293238.73	6249523.65
EP2 X2030 Y2060	0	25	314	Slope	340	293272.69	6249515.73
EP2 X2060 Y2060	0	26	284	Slope	155	293301.83	6249507.93
EP2 X2120 Y2120	1	40	248	Slope	180	293368.57	6249554.21
EP2 X2000 Y2120	0	75	358	Slope	220	293254.88	6249581.26

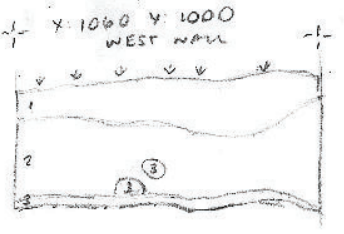







Pit #	# artefacts	Distance to Drainage Line (m)	Distance to South Creek (m)	Landform	depth (mm)	Easting	Northing
EP2 X2030 Y2120	0	60	331	Slope	220	293282.14	6249574.64
EP2 X2060 Y2120	0	52	301	Slope	185	293313.31	6249567.33
EP2 X2090 Y2120	0	45	274	Slope	300	293339.36	6249560.9
EP2 X2150 Y2120	0	31	224	Slope	170	293398.43	6249547.32
EP2 X2090 Y2030	2	2	254	Drainage Line	500	293317.58	6249472.99
EP2 X2000 Y2030	0	16	344	Drainage Line	250	293230.87	6249493.74
EP2 X2030 Y2030	0	7	314	Drainage Line	690	293260.57	6249490.17
EP2 X2060 Y2030	0	5	484	Drainage Line	540	293287.65	6249479.11
EP2 X2120 Y2030	0	3	222	Drainage Line	300	293347.43	6249466.76
EP2 X2090 Y2150	1	16	289	Drainage Line	320	293346.41	6249590.35
EP2 X2030 Y2150	0	36	342	Slope	230	293288.24	6249604.95
EP2 X2060 Y2150	0	25	315	Slope	275	293317.87	6249595.72

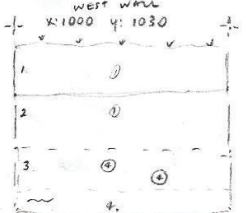

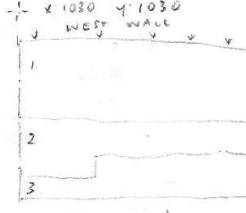

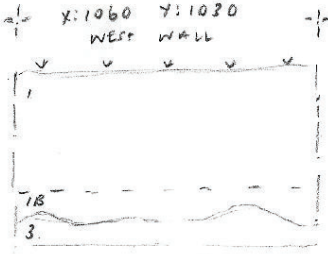

## 16.2 Appendix B: Excavation unit drawings and photographs

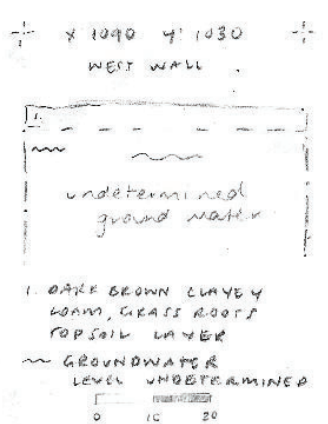

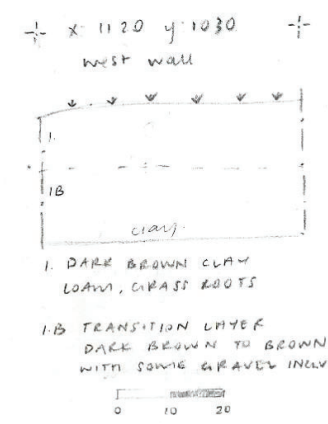

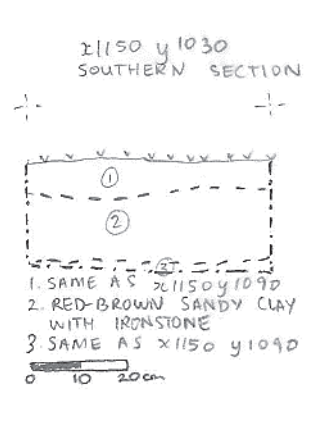

Pit # <sup>1</sup>	Section drawing	Representative photo
X1000 Y1000	<p><b>West section of X1000 Y1000</b></p>  <p>1. DARK BROWN LOAMY CLAY 2. TRANSITIONAL LAYER, BROWN CLAY WITH GRAVEL INCLUSIONS 3. NATURAL CLAY, ORANGE BROWN</p>	<p><b>East section of X1000 Y1000</b></p> 
X1030 Y1000	<p><b>West section of X1030 Y1000</b></p>  <p>1. SAME AS X1000 Y1000 2. SAME AS X1000 Y1000 3. SAME AS X1000 Y1000 4. GROUNDWATER</p>	<p><b>East section of X1030 Y1000</b></p> 

<sup>1</sup> Following the field program, test pits within EP2 were relabelled to reduce confusion related to overlapping test pit numbers between EP1 and EP2. All pits within EP2 were relabelled to exist within a grid with an arbitrary zero of X2000 Y2000.

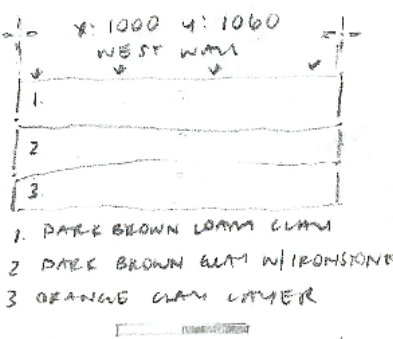

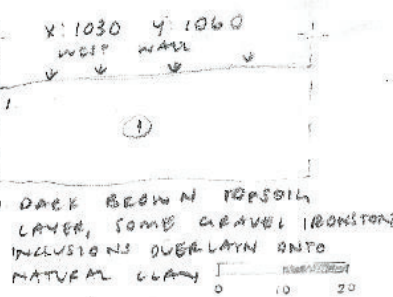

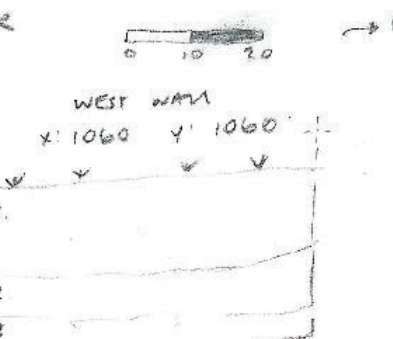

Pit #1	Section drawing	Representative photo
<p>X1060 Y1000</p>	<p><b>West section of X1060 Y1000</b></p>  <p>1 SAME AS X: 1000 Y: 1000 2 SAME AS X: 1000 Y: 1000 3 SAME AS X: 1000 Y: 1000</p> <p>0 10 20</p>	<p><b>West section of X1060 Y1000</b></p> 
<p>X1090 Y1000</p>	<p><b>West section of X1090 Y1000</b></p>  <p>1 SAME AS X: 1000 Y: 1000 2 SAME AS X: 1000 Y: 1000 3 SAME AS X: 1000 Y: 1000</p> <p>0 10 20</p>	<p><b>West section of X1090 Y1000</b></p> 
<p>X1120 Y1000</p>	<p><b>West section of X1120 Y1000</b></p>  <p>1 SAME AS X: 1000 Y: 1000 2 SAME AS X: 1000 Y: 1000 3 SAME AS X: 1000 Y: 1000</p> <p>0 10 20</p>	<p><b>South section of X1120 Y1000</b></p> 



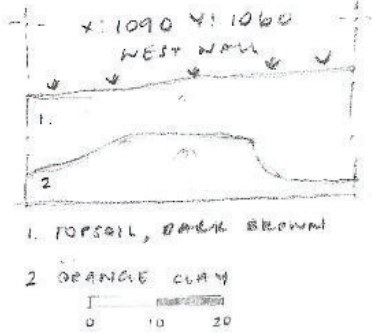


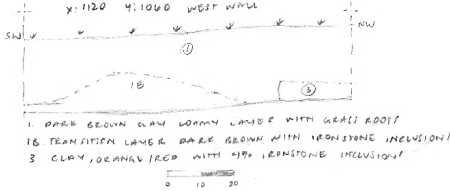

Pit #1	Section drawing	Representative photo
<p>X1000 Y1030</p>	<p><b>West section of X1000 Y1030</b></p>  <p>1 DARK BROWN LOAMY CLAY TOPSOIL WITH GRASS ROOTS 2 DARK BROWN TRANSITION LAYER 3 BROWN CLAY WITH SOME IRONSTONE INCLUSIONS 4 ORANGE RED CLAY</p> <p>0 10 20</p>	<p><b>South Section X1000 Y1030</b></p> 
<p>X1030 Y1030</p>	<p><b>West section of X1030 Y1030</b></p>  <p>1 DARK BROWN LOAMY CLAY WITH GRASS ROOTS + SOME &lt;1% GRAVEL INCLUSIONS 2 BROWN RED CLAY WITH IRONSTONE INCLUSIONS 3 RED CLAY WITH SOME</p> <p>0 10 20</p>	<p><b>West section of X1030 Y1030</b></p> 
<p>X1060 Y1030</p>	<p><b>West section of X1060 Y1030</b></p>  <p>1 DARK BROWN LOAMY TOPSOIL LAYER 1.5 TRANSITIONAL LAYER DARK BROWN TO BROWN WITH SOME GRAVEL INCLUSIONS 3 ORANGE CLAY LAYER WITH GRAVEL INCLUSIONS</p> <p>0 10 20</p>	<p><b>West section of X1060 Y1030</b></p> 

Pit #1	Section drawing	Representative photo
<p><b>X1090 Y1030</b></p>	<p><b>West section of X1090 Y1030</b></p> 	<p><b>West section of X1090 Y1030</b></p> 
<p><b>X1120 Y1030</b></p>	<p><b>X1120 Y1030 West Section</b></p> 	<p><b>X1120 Y1030 West Section</b></p> 
<p><b>X1150 Y1030</b></p>	<p><b>X1150 Y1030 South Section</b></p> 	<p><b>X1150 Y1030 South Section</b></p> 



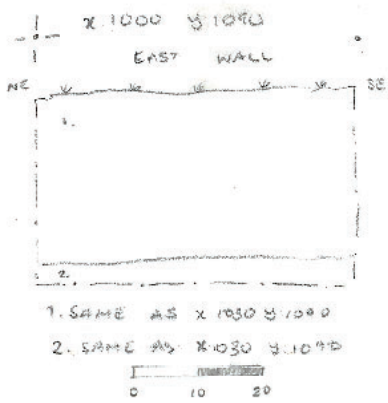

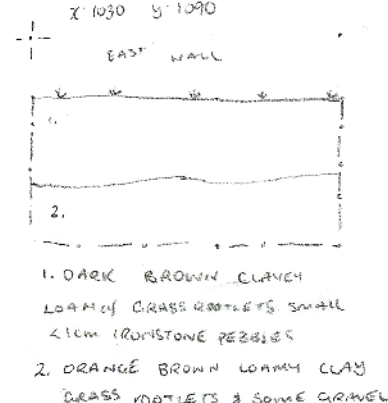

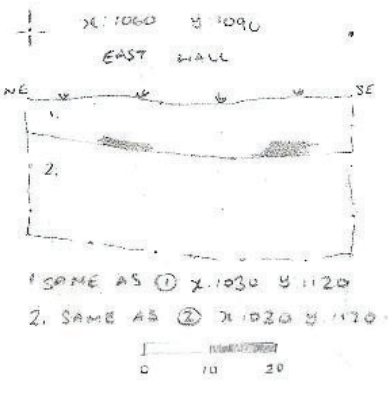

Pit #1	Section drawing	Representative photo
X1000 Y1060	<p><b>West section of X1000 Y1060</b></p>  <p>1. DARK BROWN LOAM CLAY 2. DARK BROWN CLAY W/ IRONSTONE 3. ORANGE CLAY LAYER</p>	<p><b>West section of X1000 Y1060</b></p> 
X1030 Y1060	<p><b>West section of X1030 Y1060</b></p>  <p>1. DARK BROWN TOPSOIL LAYER, SOME GRAVEL IRONSTONE INCLUSIONS OVERLAIN ONTO NATURAL CLAY</p>	<p><b>West section of X1030 Y1060</b></p> 
X1060 Y1060	<p><b>West section of X1060 Y1060</b></p>  <p>1. SAME AS X: 1000 Y: 1060 2. SAME AS X: 1000 Y: 1060 3. SAME AS X: 1000 Y: 1060</p>	<p><b>West section of X1060 Y1060</b></p> 

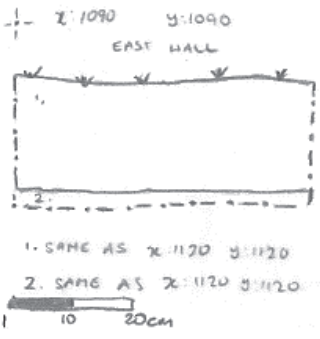

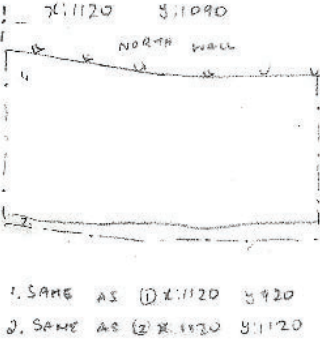




Pit # <sup>1</sup>	Section drawing	Representative photo
X1090 Y1060	<p>West section of X1090 Y1060</p> 	<p>West section of X1090 Y1060</p> 
X1105 Y1060	NA	<p>East section of X1105 Y1060</p> 
X1120 Y1059. 5	See section drawing for X1120 Y1060	
X1120 Y1060	<p>West section of X1120 Y1060</p> 	<p>West section of X1120 Y1060</p> 

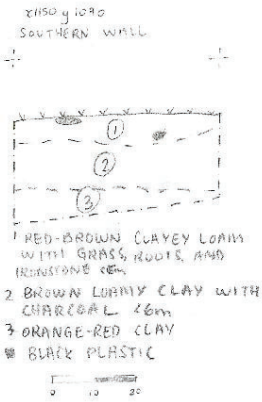



Pit # <sup>1</sup>	Section drawing	Representative photo
<p>X1120. 5 Y1059. 5</p>	<p>See section drawing for X1120 Y1060</p>	<p>East section of X1120.5 Y1059.9 and X1120.5 Y1060</p> 
<p>X1120. 5 Y1060</p>	<p>See section drawing for X1120 Y1060</p>	<p>East section of X1120.5 Y1059.9 and X1120.5 Y1060</p> 
<p>X1150 Y1060</p>	<p>South section of X1150 Y1060</p>  <p>1 RED-BROWN CLAYEY LOAM WITH GRASS ROOTS 2 SAME AS X1150 Y1090 3 SAME AS X1150 Y1090</p>	<p>South section of X1150 Y1060</p> 

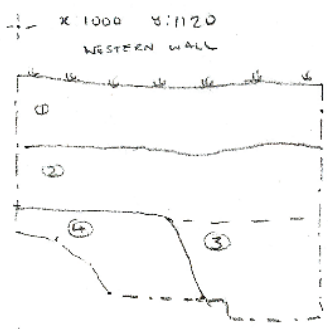





Pit #1	Section drawing	Representative photo
X1000 Y1090	<p><b>East section of X1000 Y1090</b></p>  <p>1. SAME AS X1030 Y1090 2. SAME AS X1030 Y1090</p>	<p><b>West section of X1000 Y1090</b></p> 
X1030 Y1090	<p><b>East section of X1030 Y1090</b></p>  <p>1. DARK BROWN CLAYEN LOAM w/ GRASS ROOTS &amp; SMALL 2-1CM IRONSTONE PEBBLES 2. ORANGE BROWN LOAMY CLAY GRASS ROOTS &amp; SOME GRAVELS</p>	<p><b>South section of X1030 Y1090</b></p> 
X1060 Y1090	<p><b>East section of X1060 Y1090</b></p>  <p>1. SAME AS ① X1030 Y1120 2. SAME AS ② X1030 Y1120</p>	<p><b>West section of X1060 Y1090</b></p> 

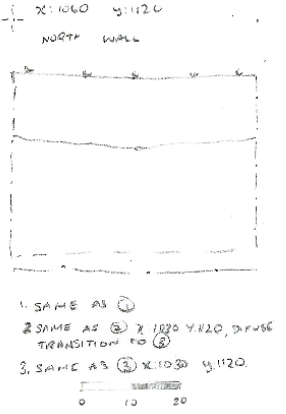

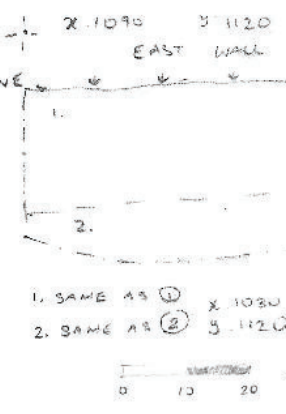

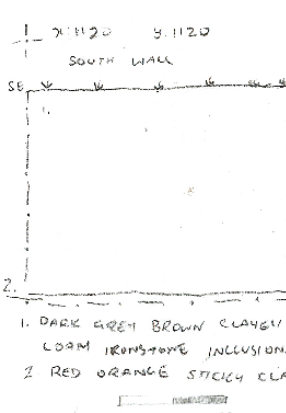

Pit #1	Section drawing	Representative photo
X1090 Y1090	<p>West section of X1090 Y1090</p> 	
X1120 Y1090	<p>North section of X1120 Y1090</p> 	<p>West section of X1120 Y1090</p> 
X1150 Y1089.5	<p>Expansion of X1150 Y1090 see below 5</p>	<p>West section of X1150 Y1089.5 and X1150 Y1090</p> 

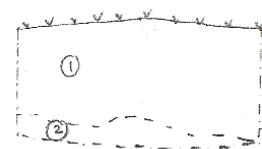

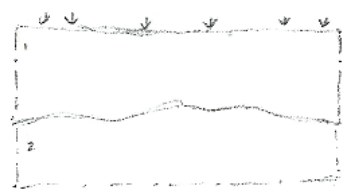





Pit #1	Section drawing	Representative photo
<p><b>X1150 Y1090</b></p>	<p><b>South section of X1150 Y1090</b></p> 	<p><b>West section of X1150 Y1090</b></p> 
<p><b>X1150. 5 Y1089. 5</b></p>	<p>Expansion of X1150 Y1090 see above</p>	<p><b>East section of X1150.5 Y1090 and X1150.5 Y1089.5</b></p> 
<p><b>X1150. 5 Y1090</b></p>	<p>Expansion of X1150 Y1090 see above</p>	<p><b>East section of X1150.5 Y1090 and X1150.5 Y1089.5</b></p> 

Pit #1	Section drawing	Representative photo
<p>X1000 Y1120</p>	<p><b>West section of X1000 Y1120</b></p>  <p>1. DARK BROWN CLAYEY LOAM W/ GRASS ROOTS &amp; PEBBLE INCLUSIONS 2. YELLOW BROWN SAND 3. GREY BROWN SANDY SILTY W/ LARGE PATCHES OF CHARCOAL - BEST HOLD? 4. DRABBLE RED CLAY POST EVENT</p> <p>0 10 20</p>	<p><b>South section of X1000 Y1120</b></p> 
<p>X1030 Y1120</p>	<p><b>North section of X1030 Y1120</b></p>  <p>1. SAME AS ① X 1000 Y 1120 2. BROWN RED LOAMY CLAY W/ PEBBLE &amp; IRONSTONE INCLUSIONS 3. RED ORANGE CLAY</p> <p>0 10 20</p>	<p><b>North section of X1030 Y1120</b></p> 

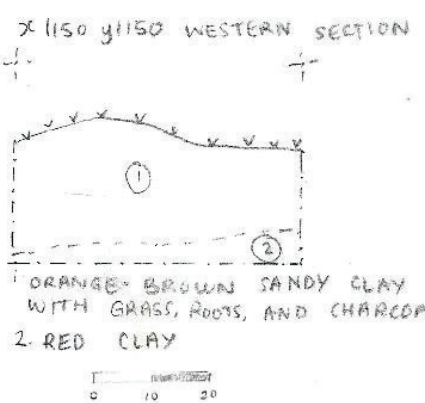

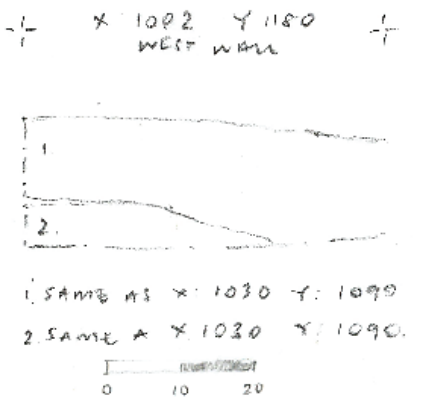

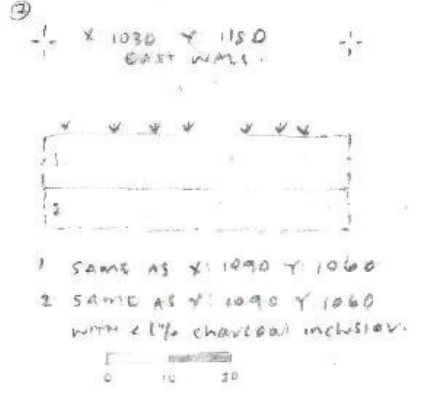



Pit #	Section Drawing	Representative Photo
X1060 Y1120	<p><b>North section of X1060 Y1120</b></p>  <p>1. SAME AS 1 2. SAME AS 2 X1020 Y1120, DIFFUSE TRANSITION TO 3 3. SAME AS 3 X1030 Y1120</p>	<p><b>North section of X1060 Y1120</b></p> 
X1090 Y1120	<p><b>East section of X1090 Y1120</b></p>  <p>1. SAME AS 1 X1030 2. SAME AS 2 Y1120</p>	<p><b>East section of X1090 Y1120</b></p> 
X1120 Y1120	<p><b>South section of X1120 Y1120</b></p>  <p>1. DARK GREY BROWN CLAYEY LOAM IRONSTONE INCLUSIONS 2. RED ORANGE STICKY CLAY</p>	<p><b>South section of X1120 Y1120</b></p> 



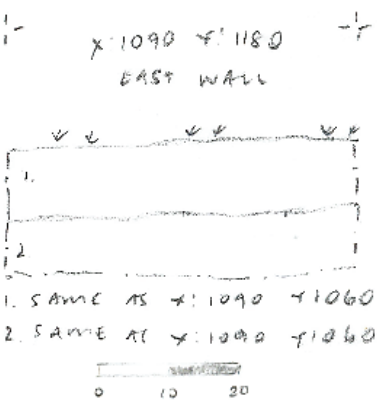

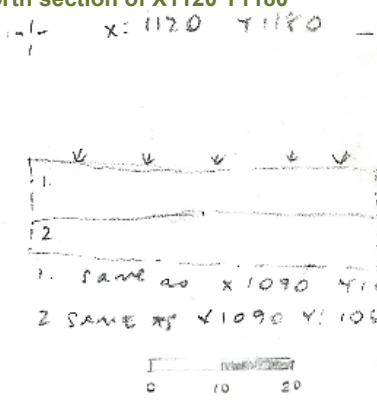

Pit #	Section Drawing	Representative Photo
X1150 Y1120	<p><b>South section of X1150 Y1120</b></p> <p>X1150 Y1120 WESTERN SECTION</p>  <p>1. RED-BROWN CLAYEY LOAM WITH GRASS, ROOTS, AND IRONSTONE &lt;20mm</p> <p>2. ORANGE-RED CLAY WITH IRONSTONE &lt;70mm</p> <p>0 10 20</p>	<p><b>North section of X1150 Y1120</b></p> 
X1002 Y1150	<p><b>South section of X1002 Y1150</b></p> <p>X1002 Y1150 WEST WALL</p>  <p>1. SAME AS X1030 Y1090</p> <p>2. SAME AS X1030 Y1090</p> <p>0 10 20</p>	<p><b>West section of X1002 Y1150</b></p> 
X1030 Y1150	<p><b>East section of X1030 Y1150</b></p> <p>X1030 Y1150 EAST WALL</p>  <p>1. SAME AS X1090 Y1060</p> <p>2. SAME AS Y1090 Y1060 WITH &lt;1% charcoal inclusion</p> <p>0 10 20</p>	<p><b>West section of X1030 Y1150</b></p> 

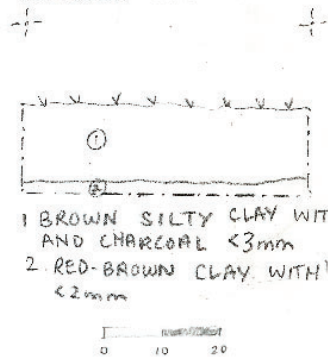

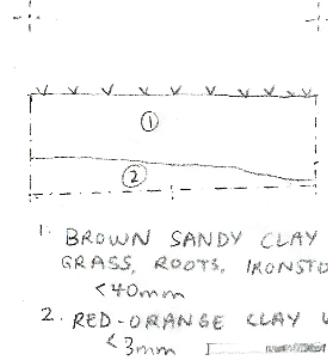

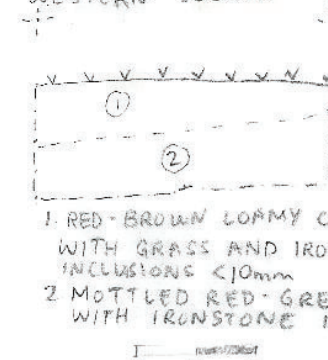



Pit #	Section Drawing	Representative Photo
X1060 Y1150	<p><b>West section of X1060 Y1150</b></p> <p>1. DARK BROWN LOAMY CLAY WITH GRASS ROOT INCLUSIONS 2. BROWN/ORANGE LOAMY CLAY WITH GRAVEL INCLUSIONS 3. ORANGE CLAY ● CHARCOAL ROOT</p>	<p><b>North section of X1060 Y1150</b></p>
X1090 Y1150	<p><b>West section of X1090 Y1150</b></p> <p>1. DARK BROWN LOAMY CLAY WITH ROOTS 2. SAME AS X1030 Y1090</p>	<p><b>West section of X1090 Y1150</b></p>
X1120 Y1150	<p><b>West section of X1120 Y1150</b></p> <p>1. SAME AS X1030 Y1090 2. LIGHT BROWN CLAY SAME AS CHARCOAL ROOTS</p>	<p><b>West section of X1120 Y1150</b></p>

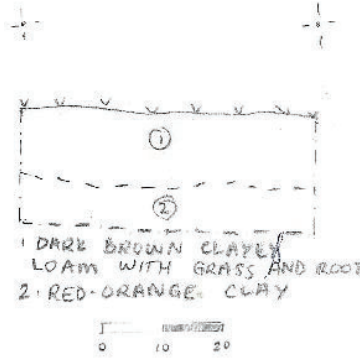

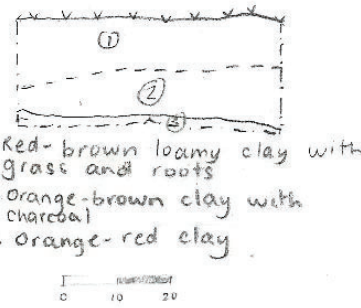

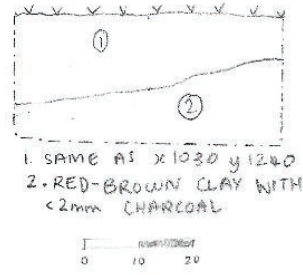

Pit #	Section Drawing	Representative Photo
X1150 Y1150	<p>West section of X1150 Y1150</p> 	<p>West section of X1150 Y1150</p> 
X1002 Y1180	<p>West section of X1002 Y1180</p> 	<p>West section of X1002 Y1180</p> 
X1030 Y1180	<p>East section of X1030 Y1180</p> 	<p>East section of X1030 Y1180</p> 

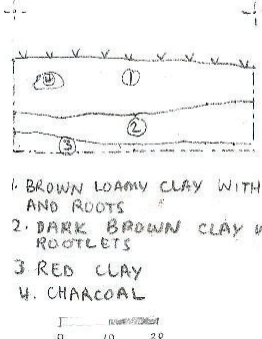

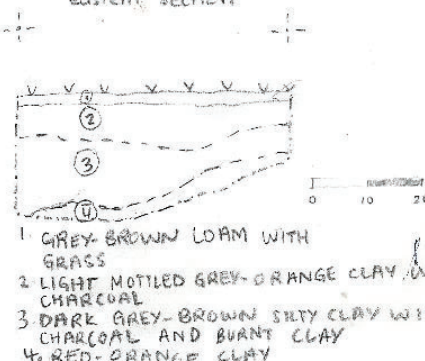

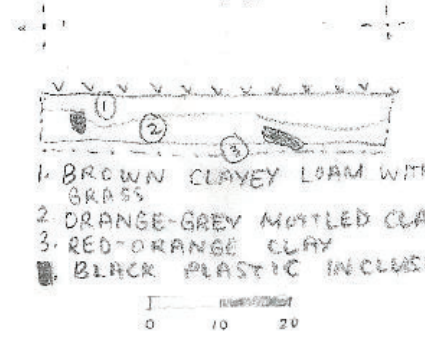



Pit #	Section Drawing	Representative Photo
<p>X1060 Y1180</p>	<p><b>West section of X1060 Y1180</b></p>  <p>1. DARK BROWN LOAM TOPSOIL (LATE WITH GRASS ROOTS AND SMALL GRAVEL INCLUSIONS)</p>	<p><b>West section of X1060 Y1180</b></p> 
<p>X1090 Y1180</p>	<p><b>East section of X1090 Y1180</b></p>  <p>1. SAME AS X1090 Y1060 2. SAME AS X1090 Y1060</p>	<p><b>South section of X1090 Y1180</b></p> 
<p>X1120 Y1180</p>	<p><b>North section of X1120 Y1180</b></p>  <p>1. SAME AS X1090 Y1060 2. SAME AS X1090 Y1060</p>	<p><b>South section of X1120 Y1180</b></p> 

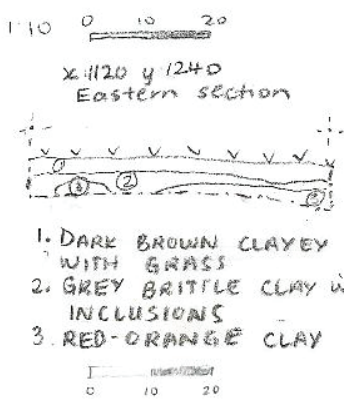

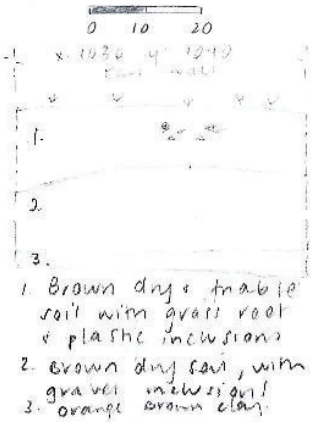

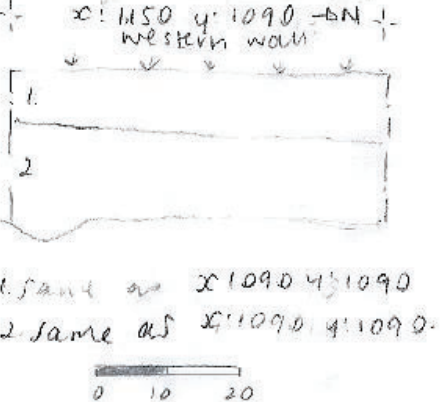

Pit #	Section Drawing	Representative Photo
X1002 Y1210	<p><b>West section of X1002 Y1210</b> X1002 Y1210 WESTERN SECTION</p>  <p>1 BROWN SILTY CLAY WITH ROOTS AND CHARCOAL &lt;3mm 2 RED-BROWN CLAY WITH CHARCOAL &lt;2mm</p>	<p><b>West section of X1002 Y1210</b></p> 
X1030 Y1210	<p><b>West section of X1030 Y1210</b> X1030 Y1210 WESTERN SECTION</p>  <p>1 BROWN SANDY CLAY WITH GRASS, ROOTS, IRONSTONE INCLUSIONS &lt;40mm 2 RED-ORANGE CLAY WITH CHARCOAL &lt;3mm</p>	<p><b>South section of X1030 Y1210</b></p> 
X1060 Y1210	<p><b>West section of X1060 Y1210</b> X1060 Y1210 WESTERN SECTION</p>  <p>1 RED-BROWN LOAMY CLAY WITH GRASS AND IRONSTONE INCLUSIONS &lt;10mm 2 MOTTLED RED- GREY CLAY WITH IRONSTONE INCLUSIONS</p>	<p><b>South section of X1060 Y1210</b></p> 

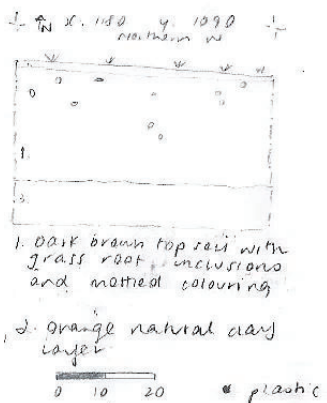

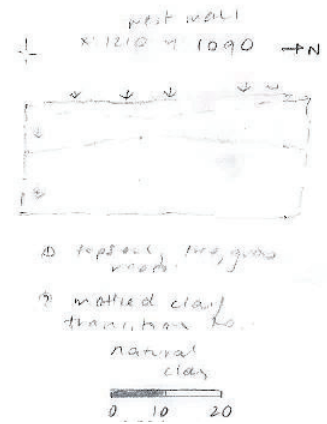

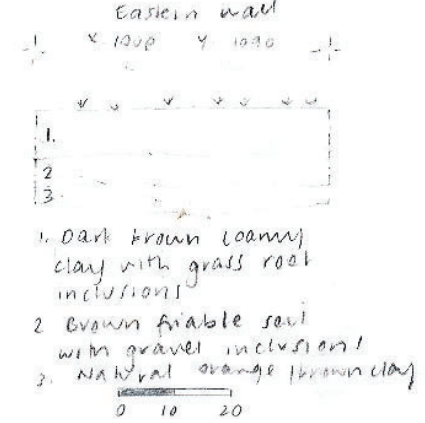



Pit #	Section Drawing	Representative Photo
X1090 Y1210	<p>West section of X1090 Y1210 X1090 Y1210 WESTERN SECTION</p>  <p>1. DARK BROWN CLAYEY LOAM WITH GRASS AND ROOT 2. RED-ORANGE CLAY</p>	<p>West section of X1090 Y1210</p> 
X1120 Y1210	<p>West section of X1120 Y1210 X1120 Y1210 WESTERN SECTION</p>  <p>1. Red-brown loamy clay with grass and roots 2. orange-brown clay with charcoal 3. orange-red clay</p>	<p>West section of X1120 Y1210</p> 
X1002 Y1240	<p>West section of X1002 Y1240 X1002 Y1240 WESTERN SECTION</p>  <p>1. SAME AS X1030 Y1240 2. RED-BROWN CLAY WITH &lt;2mm CHARCOAL</p>	<p>West section of X1002 Y1240</p> 



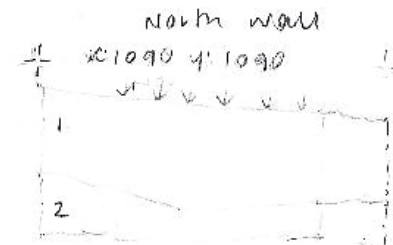

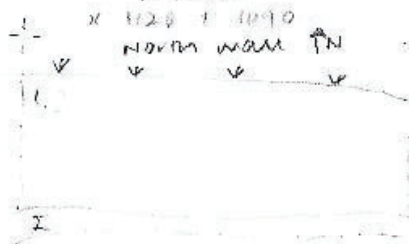

Pit #	Section Drawing	Representative Photo
X1030 Y1240	<p><b>West section of X1030 Y1240</b></p> <p>X1030 Y1240 Western Section</p>  <p>1. BROWN LOAMY CLAY WITH GRASS AND ROOTS 2. DARK BROWN CLAY WITH SMALL ROOTLETS 3. RED CLAY 4. CHARCOAL</p> <p>0 10 20</p>	<p><b>West section of X1030 Y1240</b></p> 
X1060 Y1240	<p><b>East section of X1060 Y1240</b></p> <p>X1060 Y1240 Eastern Section</p>  <p>1. GREY-BROWN LOAM WITH GRASS 2. LIGHT MOTTLLED GREY-ORANGE CLAY WITH CHARCOAL 3. DARK GREY-BROWN SILTY CLAY WITH CHARCOAL AND BURNT CLAY 4. RED-ORANGE CLAY</p> <p>0 10 20</p>	<p><b>East section of X1060 Y1240</b></p> 
X1090 Y1240	<p><b>West section of X1090 Y1240</b></p> <p>X1090 Y1240 Western Section</p>  <p>1. BROWN CLAYEY LOAM WITH GRASS 2. ORANGE-GREY MOTTLLED CLAY 3. RED-ORANGE CLAY 4. BLACK PLASTIC INCLUSION</p> <p>0 10 20</p>	<p><b>West section of X1090 Y1240</b></p> 

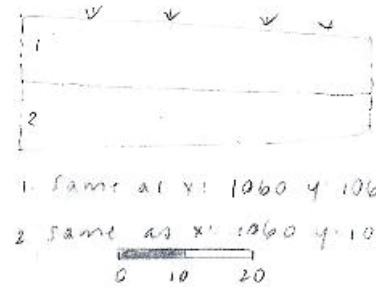

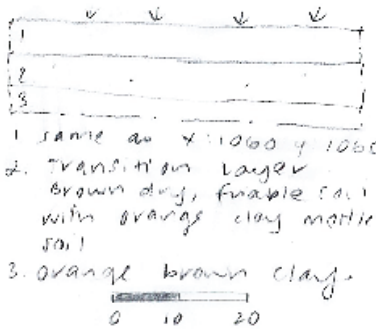

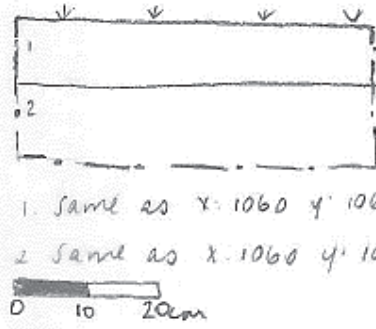



Pit #	Section Drawing	Representative Photo
X1120 Y1240	<p><b>East section of X1120 Y1240</b></p>  <p>1. DARK BROWN CLAYEY LOAM WITH GRASS 2. GREY BRITTLE CLAY W ROOTL INCLUSIONS 3. RED-ORANGE CLAY</p>	<p><b>East section of X1120 Y1240</b></p> 
X2030 Y2090	<p><b>East section of X2030 Y2090</b></p>  <p>1. Brown dry &amp; friable soil with grass root &amp; plastic inclusions 2. Brown dry soil, with gravel inclusions 3. Orange brown clay</p>	<p><b>West section of X2030 Y2090</b></p> 
X2150 Y2090	<p><b>West section of X2150 Y2090</b></p>  <p>1. Same as X1090 Y1090 - BN 1 2. Same as X1090 Y1090</p>	<p><b>East section of X2150 Y2090</b></p> 

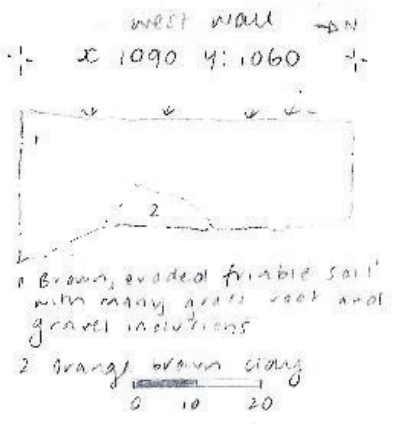

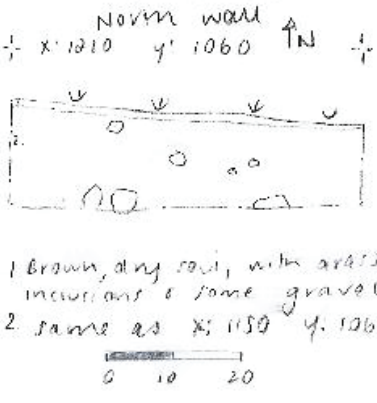

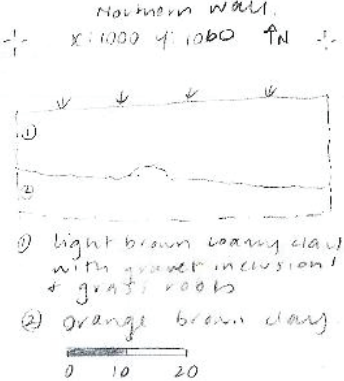

Pit #	Section Drawing	Representative Photo
X2180 Y2090	<p><b>East section of X2180 Y2090</b></p>  <p>1. Dark brown topsoil with grass root inclusions and mottled colouring</p> <p>2. Orange natural clay layer</p> <p>0 10 20 plastic</p>	<p><b>East section of X2180 Y2090</b></p> 
X2210 Y2090	<p><b>West section of X2210 Y2090</b></p>  <p>1. Topsoil, fine grass roots</p> <p>2. Mottled clay transition to natural clay</p> <p>0 10 20</p>	<p><b>South section of X2210 Y2090</b></p> 
X2000 Y2090	<p><b>East section of X2000 Y2090</b></p>  <p>1. Dark brown loamy clay with grass root inclusions</p> <p>2. Brown friable soil with gravel inclusions</p> <p>3. Natural orange brown clay</p> <p>0 10 20</p>	<p><b>North section of X2000 Y2090</b></p> 

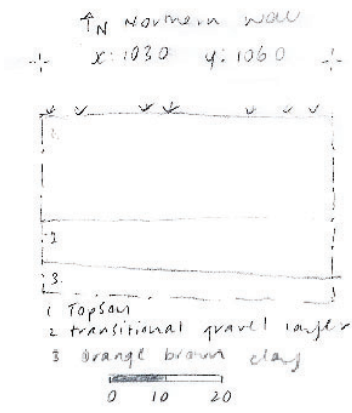



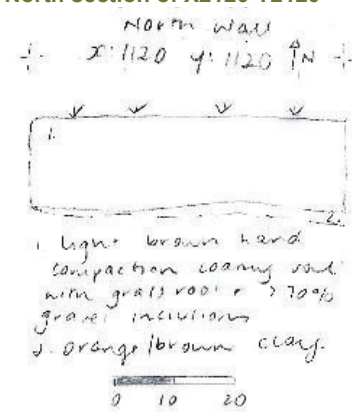



Pit #	Section Drawing	Representative Photo
X2060 Y2090	<p><b>West section of X2060 Y2090</b></p>  <p>1. Brown dry soil with grass rock inclusions</p> <p>2. light brown loamy clay with gravel inclusions, transitions to orange clay nahars at base.</p>	<p><b>West section of X2060 Y2090</b></p> 
X2090 Y2090	<p><b>North section of X2090 Y2090</b></p>  <p>1. same as X:1000 Y:1090</p> <p>2. orange brown clay</p>	<p><b>North section of X2090 Y2090</b></p> 
X2120 Y2090	<p><b>North section of X2120 Y2090</b></p>  <p>1. same as X:1090 Y:1090</p> <p>2. same as X:1090 Y:1090</p>	<p><b>North section of X2120 Y2090</b></p> 







Pit #	Section Drawing	Representative Photo
X2120 Y2060	<p><b>East section of X2120 Y2060</b></p> <p>East wall -&gt;N</p> <p>1. x: 1120 y: 1060</p>  <p>1. Same as x: 1060 y: 1060</p> <p>2. Same as x: 1060 y: 1060</p> <p>0 10 20</p>	<p><b>East section of X2120 Y2060</b></p> 
X2150 Y2060	<p><b>North section of X2150 Y2060</b></p> <p>North wall -&gt;N</p> <p>1. x: 1150 y: 1060</p>  <p>1. same as x: 1060 y: 1060</p> <p>2. Transition layer brown clay, friable soil with orange clay mottled soil</p> <p>3. orange brown clay.</p> <p>0 10 20</p>	<p><b>North section of X2150 Y2060</b></p> 
X2180 Y2060	<p><b>North section of X2180 Y2060</b></p> <p>North wall -&gt;N</p> <p>1. x: 1180 y: 1060</p>  <p>1. Same as x: 1060 y: 1060</p> <p>2. Same as x: 1060 y: 1060</p> <p>0 10 20cm</p>	<p><b>North section of X2180 Y2060</b></p> 





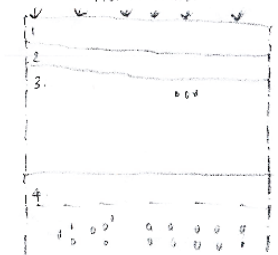



Pit #	Section Drawing	Representative Photo
X2090 Y2060	<p><b>West section of X2090 Y2060</b></p>  <p>1 Brown, eroded friable soil with many grass roots and gravel inclusions 2 Orange brown clay</p>	<p><b>West section of X2090 Y2060</b></p> 
X2210 Y2060	<p><b>North section of X2210 Y2060</b></p>  <p>1 Brown, clay soil, with grass roots inclusions &amp; some gravel 2 Same as X: 1150 Y: 1060</p>	<p><b>North section of X2210 Y2060</b></p> 
X2000 Y2060	<p><b>North section of X2000 Y2060</b></p>  <p>① light brown loamy clay with gravel inclusions &amp; grass roots ② Orange brown clay</p>	<p><b>East section of X2000 Y2060</b></p> 

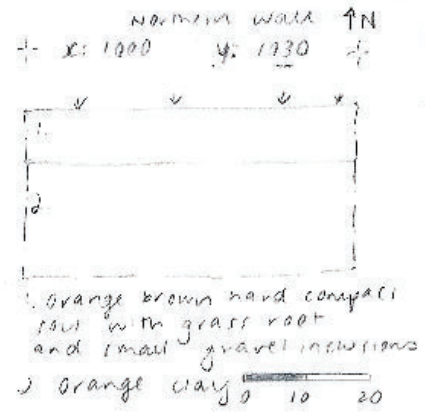

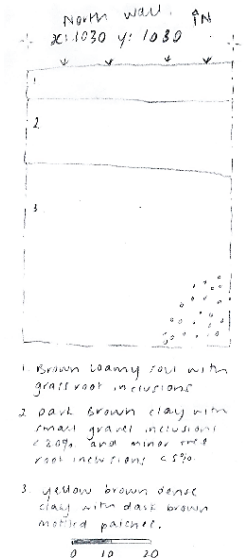

Pit #	Section Drawing	Representative Photo
X2030 Y2060	<p>North section of X2030 Y2060</p> <p>↑N North wall X: 1030 Y: 1060</p>  <p>1 Topsoil 2 transitional gravel layer 3 orange brown clay</p> <p>0 10 20</p>	<p>North section of X2030 Y2060</p> 
X2060 Y2060	<p>North section of X2060 Y2060</p> <p>↑N North wall X: 1060 Y: 1060</p>  <p>1 Brown, hard soil with grass root inclusions and with some mottled orange brown clay. 2 orange brown clay.</p> <p>0 10 20</p>	<p>East section of X2060 Y2060</p> 
X2120 Y2120	<p>North section of X2120 Y2120</p> <p>North wall X: 1120 Y: 1120</p>  <p>1 light brown hard compaction loamy sand with grass roots &gt; 70% gravel inclusions 2 orange brown clay.</p> <p>0 10 20</p>	<p>North section of X2120 Y2120</p> 

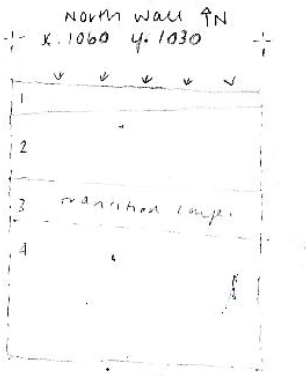





Pit #	Section Drawing	Representative Photo
X2000 Y2120	<p><b>West section of X2000 Y2120</b></p> <p>western wall -&gt;N X 1000 Y 1120</p>  <p>1 Brown, eroded soil with grass root inclusions, gravel &gt; 80% and orange mottled clay inclusions rests on orange brown clay</p> <p>0 10 20</p>	<p><b>West section of X2000 Y2120</b></p> 
X2030 Y2120	<p><b>South section of X2030 Y2120</b></p> <p>X 1030 Y 1120 south wall -&gt;N</p>  <p>1 Brown hard soil with gravel and grass root inclusions. Evidence of black modern plaster and mottled clay throughout</p> <p>2 orange clay</p> <p>0 10 20</p>	<p><b>South section of X2030 Y2120</b></p> 
X2060 Y2120	<p><b>North section of X2060 Y2120</b></p> <p>N1 Northern wall X 1060 Y 1120</p>  <p>1 Brown hard soil with small grass root inclusions and small gravel inclusions with mottled orange clay</p> <p>2 orange brown clay</p> <p>0 10 20</p>	<p><b>North section of X2060 Y2120</b></p> 

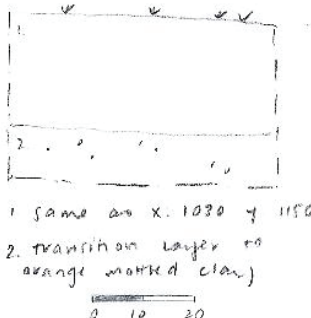

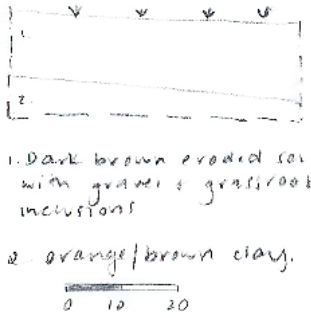

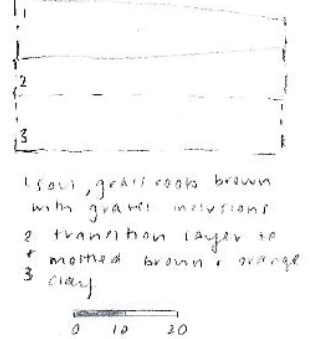

Pit #	Section Drawing	Representative Photo
X2090 Y2120	<p><b>North section of X2090 Y2120</b></p> <p>North wall ↑N</p>  <p>1. Same as X1120 Y1120</p> <p>2. transitional layer brown hard soil with mottled orange clay inclusion?</p> <p>3. Orange brown clay</p> <p>0 10 20</p>	<p><b>North section of X2090 Y2120</b></p> 
X2150 Y2120	<p><b>North section of X2150 Y2120</b></p> <p>North wall ↑N</p>  <p>1. Brown top soil layer with small grass root inclusions</p> <p>2. clay layer with some orange mottled &amp; grass root inclusions</p> <p>3. orange brown clay.</p> <p>0 10 20</p>	<p><b>North section of X2150 Y2120</b></p> 
X2090 Y2030	<p><b>North section of X2090 Y2030</b></p> <p>X1090 Y1030 ↑N</p> <p>North wall</p>  <p>1. Same as X1060 Y1030</p> <p>2. same as X1060 Y1030</p> <p>3. light brown to dark brown loamy clay with gravel inclusions</p> <p>4. light brown clay with dark mottling transitioning to brown clay</p> <p>0 10 20</p>	<p><b>North section of X2090 Y2030</b></p> 



Pit #	Section Drawing	Representative Photo
X2000 Y2030	<p><b>North section of X2000 Y2030</b></p>  <p>1. Orange brown hard compact soil with grass root and small gravel inclusions 2. Orange clay</p>	<p><b>North section of X2000 Y2030</b></p> 
	<p><b>North section of X2030 Y2030</b></p>  <p>1. Brown loamy soil with grass root inclusions 2. Dark brown clay with small gravel inclusions, roots and minor soil root inclusions 3. Yellow brown dense clay with dark brown mottled patches.</p>	<p><b>East section of X2030 Y2030</b></p> 

Pit #	Section Drawing	Representative Photo
X2060 Y2030	<p><b>North section of X2060 Y2030</b></p>  <p>1 Dry brown exposed soil with grass root inclusions and gravel inclusions 20%.</p> <p>2 Brown soil mixed with mottled orange clay.</p> <p>3 brown loamy soil with gravel + tree root inclusions.</p> <p>4 Orange / brown clay transitioning to orange clay base.</p> <p>0 10 20</p>	<p><b>East section of X2060 Y2030</b></p> 
	<p><b>North section of X2120 Y2030</b></p>  <p>1 Same as X 1060 Y 1030</p> <p>2 Orange dense natural clay</p> <p>0 10 20</p>	<p><b>North section of X2120 Y2030</b></p> 



Pit #	Section Drawing	Representative Photo
X2090 Y2150	<p><b>North section of X2090 Y2150</b></p> <p>North wall ↑N X: 1090 Y: 1150</p>  <p>1. same as X: 1030 Y: 1150 2. transition layer to orange mottled clay</p> <p>0 10 20</p>	<p><b>North section of X2090 Y2150</b></p> 
X2030 Y2150	<p><b>North section of X2030 Y2150</b></p> <p>North wall ↑N X: 1030 Y: 1150</p>  <p>1. Dark brown eroded soil with gravel &amp; grass root inclusions 2. orange/brown clay.</p> <p>0 10 20</p>	<p><b>South section of X2030 Y2150</b></p> 
X2060 Y2150	<p><b>North section of X2060 Y2150</b></p> <p>North wall ↑N X: 1060 Y: 1150</p>  <p>1. soil, grass roots brown with gravel inclusions 2. transition layer to mottled brown &amp; orange 3. clay</p> <p>0 10 20</p>	<p><b>South section of X2060 Y2150</b></p> 

## 16.3 Appendix C: Glossary of artefact terminology

**Aboriginal cultural heritage:** The material (objects) and intangible (mythological places, dreaming stories etc) traditions and practices associated with past and present day Aboriginal communities.

**Aboriginal object:** Any deposit, object or material evidence (not being a handicraft made for sale), including Aboriginal remains, relating to the Aboriginal habitation of NSW.

**Aboriginal place:** Any place declared to be an Aboriginal place under s.94 of the *National Parks and Wildlife Act 1974*.

**Aboriginal stakeholders:** Members of a local Aboriginal land council, Aboriginal groups or other Aboriginal people who have registered their interest with the RTA to be consulted about a proposed RTA project or activity

**AHIMS:** Acronym for 'Aboriginal heritage information management system'. AHIMS is a register that contains information about NSW Aboriginal heritage, and it is maintained by DECCW.

**Alluvium:** A deposit left by the flow of water. It can include sediments of gravel, mud or sand.

**Angular fragment:** A flaked piece of stone that does not have characteristic features which allow for it to be positively identified as a flake, core or tool.

**Archaeological site:** A location that has evidence of past Aboriginal activity (both material and mythological/ritual).

**Archaeology:** The scientific study of human history, with focus on material remains and ethnographic evidence.

**Area of archaeological sensitivity:** A part of the landscape that contains demonstrated occurrences of cultural material. The precise level of sensitivity will depend on the density and significance of the material.

**Artefact:** An item of cultural material created by humans.

**Artefact scatter:** Where two or more stone artefacts are found within an area of potential archaeological deposit or a site.

**Backed blade/ artefact:** Bladelets that have one edge blunted by steep retouch to form a back.

**Basalt:** A common volcanic rock. It is fine grained (approximately 45-50% silica) and rich in iron and magnesium.

**Baseline:** A line that is the base for measurement or for construction

**Bedrock:** A consolidated rock that is unbroken and un-weathered, located beneath soil or rock fragments.

**Bifacial flaking:** The removal of flakes from two faces of a single platform.

**Bipolar:** A method of flaking stone, especially quartz, where cores are rested upon an anvil during flaking.

**Bipolar core:** A core used to create bipolar flakes.

**Blade:** A stone flake that is at least twice as long as it is wide.

**Bioturbation:** Disturbance in soil profiles caused by living organisms, such as ants and roots.

**Bora ground:** These are usually identified as flat, mounded earth rings that were used for Aboriginal ceremonial activities.

**Bulb of percussion:** A partial cone of force produced when a flake is struck off a core. The cone occurs on the ventral (inside surface) of the flake.

**Burials:** Burial sites may be composed of a single burial, isolated individuals in a general area, or cemeteries containing many individuals.

**Carved/ modified trees:** Carved trees exhibit evidence of purposeful removal of bark but differ from scarred trees in that geometric patterns and figures are cut into the tree. The motifs of the mid-north coast region are mostly linear geometric patterns (Craib and Bonhomme 1995: 27).

**Chalcedony:** A mineral with high silica content that has a microcrystalline structure. It is often described as 'waxy' and can be translucent. It is found in a variety of colours such as white, grey, greyish-blue or brown.

**Chert:** A fine grained rock composed of cryptocrystalline silica. It exhibits a range of textures and colours including red, green or black. Chert is easy to work and retains a sharp edge for an extensive period of time before resharpening is required. It has a low to medium fracture toughness.

**Clast:** A broken fragment of rock or crystal particle that was created either through erosion or weathering.

**Clay:** A type of sediment with particles less than 4 microns in size and that is composed of clay minerals (Kearney 2001: 49).

**Conglomerate:** Is a geological term used to describe clasts that are cemented in a fine-grained matrix. It is a sedimentary rock.

**Core:** A stone piece from which a flake has been removed by percussion (striking it) or by pressure. It is identified by the presence of flake scars showing the negative attributes of flakes, from where flakes have been removed.

**Cortical platform:** This term is used to describe a platform that has cortex present and may indicate that the core's surface (where the flake was struck) was previously un-worked.

**Cortex:** The outer weathered surface of stone; if smooth, it can indicate the source of stone was a pebble.

**Crushed platform:** This term is used to describe a flake that has a damaged platform and where the platform's attributes cannot be recorded as a result.

**Cultural heritage assessment report:** A report combining an Aboriginal archaeological assessment and Aboriginal cultural assessment, required to be submitted to DECCW for any Part 6 *National Parks and Wildlife Act 1974* approval or prepared for projects under Section 5.1 of the *Environmental Planning and Assessment Act 1979* where Aboriginal cultural heritage is identified as a key issue.

**Debitage:** Small, unmodified flakes produced as part of the flaking process, but discarded unused.

**Distal:** Term of view used to describe the lower portion of a flake in respect to where the striking force terminates.

**Distal flake:** A broken flake with the presence of a termination and the absence of a platform or impact point.

**Dorsal:** The side of a flake that was originally part of the core's outer surface (often referred to as the 'dorsal surface').

**Easting:** This is a measurement used to determine location. The easting is the x-coordinate and relates to the vertical lines on a map, which divide east to west. It increases in size when moving further east.

**Edge damage:** Where the edge of a tool has been used, resulting in microscopic fractures along the surface.

**Exposure:** The level of ground exposure is based on whether the landform is eroding, aggrading or stable.

**Faceted platform:** A faceted platform has three or more flake scars present on its surface.

**Feather termination:** A feather termination has a 'minimal thickness at the distal end and an acute angle between the dorsal and ventral surfaces' (Holdaway and Stern 2008: 129). In appearance, a feather termination becomes gradually thinner towards the end of the flake.

**Fine grained siliceous material:** A rock that has a high content of silica and that is fine grained in appearance without any further identifying characteristics.

**Flake:** A stone piece removed from a core by percussion (striking it) or by pressure. It is identified by the presence of a striking platform and bulb of percussion, not usually found on a naturally shattered stone.

**Flake scar:** Often called a 'negative flake scar', it is the remnant of a previous flake that was struck from the core. This appears on the dorsal surface of a flake.

**Flaked fragment:** This is a chipped stone artefact which cannot be classed as a flake, core or retouched flake, the reason being that the defining attributes are missing. This often happens when a core contains a number of incipient fracture planes. Artefacts that are heavily weathered or which have been shattered in a fire are also difficult to categorise.

**Flaked platform:** This term is used to describe a platform that has been worked previously; one or more flakes were removed prior.

**Floodplain:** The area covered by water during a major flood and/or the area of alluvium deposits laid down during past floods.

**Fluvial:** Pertaining to or produced from a river.

**Focalised platform:** A small platform that is intentionally prepared for percussion by overhang removal.

**Footprint:** The scale, extent or mark that a development makes on the land in relation to its surroundings.

**Geometric microliths:** Backed at one end, the other end or both, these tools are made on geometric shaped flakes, <80 mm maximum dimension.

**Geomorphic:** Relating to the structure, shape and development of landforms.

**Hammerstone:** A piece of stone used to knock flakes from a core. Evidence of pitting or bashing can usually be seen along some part of the margins of this artefact.

**Hinge termination:** A hinge termination occurs 'when the fracture meets the surface of the core at approximately right angles to the longitudinal axis of the flake' (Holdaway and Stern 2008: 130). This can present as a rounded surface that curves downwards at the distal end of a flake.

**Holocene:** The Holocene epoch forms part of the late Quaternary period and extends from about 11,000 years ago to the present day.

**Humic:** Soil that contains organic matter (from 'humus').

**Igneous:** After magma or lava cools and solidifies, it forms igneous rock. This can happen in volcanic and plutonic (under the surface of the earth) scenarios. An example of this is basalt.

**In situ:** A description of any cultural material that lies undisturbed in its original point of deposition.

**Ironstone:** A type of sedimentary rock that contains iron.

**Knapping:** The removal of flakes and flaked pieces from a stone core by the use of percussion.

**Layer:** In stratigraphy, it is used to describe a horizon (soil, rock, charcoal) that is distinct from its surrounds.

**Landform:** Description for an area of land based on an assessment of a series of environmental characteristics including geology, geomorphology, soils and vegetation.

**Loam:** Soil that contains roughly equal concentrations of silt, sand and clay.

**Longitudinally split flake:** This is a flake that is broken (split) from the point of percussion (the strike) through to the termination.

**Manuport:** An unmodified piece of stone transported to a site by humans.

**Medial:** Term of view referring to the intermediate section or middle section of a broken flake.

**Medial flake:** Absence of proximal and distal margins, but with an identifiable ventral surface.

**Metamorphism:** The process where an existing rock (which can be sedimentary or igneous) is transformed into another mineral through the application of temperature and pressure. An example of this is hornfels.

**Mudstone:** A sedimentary rock formed from mud/clay.

**Muller:** A large stone artefact which differs in construction depending on the environment. These were used as an aide for processing seeds and other low return plant material or ochre.

**Multiple platform core:** Is a core with more than one identifiable platform.

**Munsell colour:** This is a colour code chart used to standardise colour specifications.

**Non-diagnostic:** An amorphous piece of stone that is neither a flake, flaked fragment, core or retouched flake.

**Northing:** This is a measurement used to determine location. The northing is the y-coordinate and relates to the horizontal lines on a map, which divide north to south. It increases in size when moving further north.

**Notched tool:** Flakes that exhibit a small area of retouch, forming a concave edge on lateral or distal margin.



**Oriented length:** This is a measurement taken from the point of impact through to the termination.

**Oriented thickness:** This is a measurement taken from where the oriented width and oriented length intersect.

**Oriented width:** This is a measurement taken across the middle of a flake (halfway between the point of impact and the termination).

**Overhang removal:** This occurs when a platform is prepared for striking; small flakes are struck before a flake is detached, leaving visible scars behind.

**Potential Archaeological Deposit (PAD):** A PAD is a location that is considered to have a potential for sub-surface cultural material. This is determined from a visual inspection of the site, background research of the area and the landform's cultural importance.

**pH:** A measure of the acidity or alkalinity of the soil. Neutral is indicated by a pH of 7, with strongly acidic being 0 and strongly basic (alkaline) being 14. The 'pH' is said to stand for 'potential of hydrogen'.

**Platform:** On a flake, this is a core remnant from where the flake was struck off the core.

**Platform width:** This is a measurement taken across the width of a platform between the two lateral margins of a flake.

**Platform thickness:** This is a measurement taken from the ventral to dorsal surfaces of a flake (beginning at the point of impact/percussion).

**Plunge termination:** This occurs when the ventral surface 'curves markedly away from the face of a core...and continues directly into the core, removing the base of the core' (Holdaway and Stern 2008: 132). This can present as a 'J' shape when holding the flake in profile.

**Proximal:** Term of view used to describe the upper portion of a flake in respect from where it was initially struck off a core.

**Proximal flake:** A broken flake with the presence of a platform, but the absence of a termination.

**Pot-lidded:** The damage caused by exposure to extreme heat, resulting in a circular depression on the surface of a stone artefact.

**Pressure flaking:** A process to remove a flake from a core by applying pressure (from a piece of wood or bone) along the core's edge.

**Quarry:** In this report, 'quarry' can refer to a native source of stone that was mined by Aboriginal people in the past. Rock from these sites could be used to make artefacts.

**Quartz:** A mineral composed of silica with an irregular fracture pattern. The quartz used in artefact manufacture is generally semi-translucent, although it varies from milky white to glassy. Glassy quartz can be used for conchoidal flaking, but poorer quality material is more commonly used for block fracturing techniques. Quartz can be derived from water worn pebbles, crystalline or vein (terrestrial) sources.

**Quartzite:** A form of metamorphosed sandstone. It is often white or grey in colour but can occur in other shades due to mineral impurities.

**Reduction:** the process of fashioning stone from its natural state into tools or weapons by removing some parts.

**Refit:** Knapping is a reductive technology. As such, it is possible to 'refit' tools back together after breakage or knapping (i.e. refitting a proximal and distal flake back together or refitting a flake back to the core it was knapped from).

**Resource area:** An area of the landscape or part of the environment that provides a resource (be it food or material items such as a source of stone for making artefacts) for Aboriginal people. Swamps are good examples of rich resource zones.

**Retouch:** A flake, flaked piece or core with intentional secondary flaking along one or more edges.

**Sand:** A material composed of small grains (0.625-2.0 mm) (Keary 2001: 233). Sand is formed from a variety of minerals and rocks, but commonly contains silica, such as quartz.

**Sandstone:** Is a sedimentary rock formed from sand-sized grains.

**Scarred trees:** Trees that feature Aboriginal derived scars are distinct due to the scar's oval or symmetrical shape and the occasional use of steel, or more rarely, stone axe marks on the scar's surface. Scarred trees are identified by the purposeful removal of bark for use in the manufacture of artefacts such as containers, shields and canoes. The bark was also used for the construction of shelters. Other types of scarring include toeholds cut in the trunks or branches of trees for climbing purposes and the removal of bark to indicate the presence of burials in the area.

**Sediment:** Is a mineral that has undergone erosion or weathering and that is then deposited via aeolian, glacial or fluvial means.

**Sedimentary:** Sedimentary rock is formed through the accumulation of sediment deposits that are then consolidated. An example of this is mudstone.

**Shale:** A sedimentary rock of well-defined layers comprised of small particles (less than 4 microns in size) (Keary 2001: 16) sourced from weathered or eroded materials.

**Significant ground disturbance:** Means disturbance of (a) the topsoil or surface rock layer of the ground; or (b) a waterway, by machinery in the course of grading, excavating, digging, dredging or deep ripping, but does not include ploughing other than deep ripping.

**Silt:** A sediment with grains ranging from 4.0-62.5 microns in size (Keary 2001: 245). It can be found as a soil or in water.

**Single platform core:** Is a core with one identifiable platform.

**Scraper:** A stone tool, usually with steep retouch along its edges that was ethnographically used to make wooden implements or process foods and other resources.

**Silcrete:** Soil, clay or sand sediments that have silicified under basalt through groundwater percolation. It ranges in texture from very fine grained to coarse grained. At one extreme it is cryptocrystalline with very few clasts. It generally has characteristic yellow streaks of titanium oxide that occur within a grey and less commonly reddish background. Used for flaked stone artefacts.

**Spit:** Refers to an arbitrarily defined strata of soil removed during excavation (often 50 millimetres to 100 millimetres in depth).

**Step termination:** This occurs when a 'flake terminates abruptly in a right-angle break' (Holdaway and Stern 2008: 130).

**Stratification:** The way in which soil forms in layers.

**Stratigraphy:** The study of soil stratification (layers) and deposition.

**Sub-surface testing:** An archaeological method used to determine the cultural sensitivity of an area by excavating small (0.5 metre x 0.5 metre) excavation units and recording the stratigraphy, material remains (such as stone tools) and disturbance.

**Survey:** In archaeological terms, this refers to walking over a surface while studying the location of artefacts and landmarks. These are then recorded and photographed.

**Termination:** Refers to the shape of the distal end of a flake.

**Tool:** A stone flake that has undergone secondary flaking or retouch.

**Use-wear:** A pattern of wear that is left on a stone artefact due to utilisation.

**Ventral:** The side of a flake that was originally attached to the core (often called the 'ventral surface'). Features such as the bulb of percussion are found on this surface of a flake.

**Visibility:** Refers to the degree to which the surface of the ground can be observed. This may be influenced by natural processes such as wind erosion or the character of the native vegetation, and by land use practices, such as ploughing or grading. It is generally expressed in terms of the percentage of the ground surface visible for an observer on foot.

## 16.4 Appendix D: Artefact catalogue

**SITE NAME: Elizabeth Drive**

Sample Square		Artifcat Type	Lithology	Grain			Artefact Dimensions			Platform Dimension & Type							Retouched/Utilised					Other		Comments									
Excavation area	Pit#			Spit#	Fine	Medium	Coarse	Length (mm)	Width (mm)	Thickness (mm)	Width (mm)	Thickness (mm)	Number of Platforms (count)	Cortical	Crushed	Faceted	Flat	Focussed	Left Lat. Margin	Right Lat. Margin	Proximal Margin	Distal Margin	Margin	Length (mm)	No of Scars	% of Cortex	River stone cortex	Terrestrial Cortex	Unknown Cortex	% of Heat Fracture Scars	No of Parallel Arris	Weight (g)	Comments
EP2 2030/2090		1	Flake fragment - marginal	Silcrete	1			18.86	20.97	4.66	10.2	2.94			1																1.7		
EP2 2030/2090		1	Flake fragment - marginal	Silcrete	1			11.92	6.79	2.48	4.47	1.86			1																0.3		
EP2 2180/2090		2		Ochre				21.89	22.58	20.5																					12		
EP2 2180/2090		2	Core fragment	Glass				40.71	38.62	11.61														1							30		
EP2 2180/2090		2	Core - MPC	Glass				14.17	25.05	8.54	8.83	10.8	2											6							5.8		
											6.36	6.25																					
											5.85	5.57																					
											8.85	7.4																					
											5.37	5.71																					
											4.58	5.77																					
EP2 2180/2090		2		Glass				19.01	27.82	8.25								18	22	16											5.4		
EP2 2180/2090		2	Flake fragment - marginal	Glass				14.75	20.38	6.42								2													3.1		
EP2 2090/2030		2	Flake fragment - proximal	Silcrete	1			14.76	16.18	3.8	7.96	3.33			1				10												1		
EP2 2090/2030		5		Ochre				41.51	20.32	19.7																					21		
EP2 2090/2150		2	GML	Mudstone	1			6.19	23.6	4.25																					0.7	Backing	
EP2 2120/2060		2	Longitudinally broken - left	Silcrete	1			18.44	12.27	3.05	9.02	2.8			1			13	10												1.5	h on left. Cortical hinge	
EP2 2120/2060		2	Flake fragment - proximal	Silcrete	1			6.4	13.15	2.47	3.74	1.17			1																0.2		
EP2 2120/2120		1	Flake fragment - marginal	Silcrete	1			17.66	10.66	4.04																						0.9	
EP2 2150/2090		1	Core fragment	Granite	1			33.76	16	8.89														9							5.5		
EP2 2150/2090		1	Tula	Chert	1			6.51	15.29	3.34								14	13												0.5	t. Backing on prox. Retouch	
EP2 2150/2090		1	Flake fragment - marginal	Silcrete	1			8.49	7.57	1.99																						0.2	
EP2 2180/2060		3	Puncturer	Silcrete	1			46.33	25.53	9.46	14	6.6			1																8.7		
EP2 2150/2060		1	Complete flake	Chert	1			18.2	12.18	6.7	6.41	4.81			1			18						1							1.1		
EP2 2150/2060		1	Flake fragment - marginal	Silcrete	1			9.82	5.69	2.35																					0.2		
EP2 2180/2090		1	Flake fragment - medial	Silcrete	1			5.91	8.74	2.71														2							0.1		
EP2 2180/2090		1	Flake fragment - distal	Glass				8.18	12.85	4.9																					0.7		
EP2 2180/2090		1	Complete flake	Glass				15.39	16.09	4.7	4.35	3			1																1.1		
EP2 2180/2090		1	Complete flake	Glass				5.57	6.04	3.06	6.37	3.2			1																0.1		
EP2 2210/2090		1	Complete flake	Crystal quartz	1			9.84	6.91	2.07	4.74	1.55			1																0.1		
EP2 2210/2090		1	Longitudinally broken right	Silcrete	1			8.88	6.62	1.74	2.15	1.15			1																0.1		
EP2 2210/2090		1	Complete flake	Silcrete	1			10.35	6.67	1.69	3.31	1.2			1									3						2	0.1	Micro-blade	
EP2 2210/2090		2	Complete flake	Glass				8.57	9.13	1.96	6.34	2.06																			0.2		



Sample Square			Artefact Type	Lithology	Grain	Artefact Dimensions			Platform Dimension & Type			Retouched/Utilised					Other		Comments												
Excavation area	Pit#	Spit#				Length (mm)	Width (mm)	Thickness (mm)	Width (mm)	Thickness (mm)	Number of Platforms (conv)	Cortical	Crushed	Faceted	Flat	Focussed	Left Lat. Margin	Right Lat. Margin	Proximal Margin	Distal Margin	Margin	Length (mm)	No of Scars	% of Cortex	River stone cortex	Terrestrial Cortex	Unknown Cortex	% of Heat Fracture Scars	No of Parallel Arris	Weight (g)	
EP2	2210/2090	2	Longitudinally broken right	Silcrete	1	17.93	11.28	6.21	8.67	4.97					1	1		11												1.2	
EP2	2210/2090	2	Core fragment	Glass		23.92	8.4	6.35															6							1.5	
EP1	1060/1150	3	Flake Fragment - marginal	Quartzite	1	8.76	9	3.59	5.22	3.15	1												1							0.3	
EP1	1120/1030	2	Complete flake	Silcrete	1	10.49	6.79	3.38	6.92	3.22					1															0.3	
EP1	1150/1090	2	Flake fragment - proximal	Silcrete	1	11.11	10.85	2.74	3.9	1.64					1								2							0.3	
EP1	1090/1120	2	Complete flake	Quartzite	1	11.99	5.22	2.79	4.4	1.79					1			10					3							0.2	
EP1	1030/1150	2	Flake Fragment - marginal	Chert	1	5.83	5.24	3.11																						0.1	
EP1	1090/1000	1	Flake fragment - medial	Silcrete	1	4.71	9.06	2.25															3							0.1	
EP1	1150/1089.5	2	Complete flake	Silcrete	1	8.16	5.63	1.87	0.96	0.83						1									20	1				0.1	
EP1	1120/1120	1	Flake Fragment - marginal	Silcrete	1	9.73	7.56	4.8	3.36	2.63					1															0.6	Heat treated
EP1	1120/1120	1	Flake fragment - marginal	Silcrete	1	9.79	7.88	3.74																						0.4	
EP1	1150.5/1090	1	Flake fragment - proximal	Silcrete	1	17.44	8.51	3.88	4.65	1.84					1															0.7	
EP1	1150.5/1090	1	Core fragment	Silcrete	1	12.57	5.73	10.9															2							0.6	
EP1	1120/1150	1	Flake fragment - marginal	Silcrete	1	5.05	6.26	1.81	3.14	1.64					1								1							0	
EP1	1120/1150	1	Complete flake	Silcrete	1	16.32	17.7	5.98	4.6	2.23	1												2							1.6	
EP1	1120/1059.5	1	Complete flake	Silcrete	1	12.66	10.92	3.72	12.9	4.81					1			8.5					1							0.6	
EP1	1120/1059.5	1	Flake fragment - proximal	Mudstone	1	14.51	12.28	3.59	7.64	3.1	1												3						2	0.7	Blade fragment
EP1	1120/1059.5	1	GML	Mudstone	1	8.52	7.81	2.59										10	7.5					2						0.2	in is backing, right margin is retouched
EP1	1120/1059.5	1	Debris	Mudstone	1	14.21	11.16	6.48																						0.9	
EP1	1120.5/1059.5	1	Flake fragment - distal	Silcrete	1	7.88	12.41	1.38																	100	1				0.1	
EP1	1120.5/1059.5	1	GML	Silcrete	1	10.07	15.66	3.93										13	9.5	14			2	60	1	20				0.6	
EP1	1120.5/1059.5	1	Longitudinally broken - left	Silcrete	1	10.59	8.13	6.46	8.16	4					1										80	1				0.7	
EP1	1120.5/1059.5	1	Flake fragment - proximal	Silcrete	1	11.72	8.47	4.13	8.52	3.35					1								2					1	0.5	PTB fragment	
EP1	1120/1059.5	2	Complete flake	Silcrete	1	30.88	13.29	4.21	9.14	3.35					1			25	11				6	10	1			2	1.8	Blade	
EP1	1120/1059.5	2	Burin	Silcrete	1	11.93	22.38	3.24	6.38	1.88					1				16				3							0.6	
EP1	1120/1059.5	2	Complete flake	Silcrete	1	26.21	6.81	3.43	4.76	3.32					1			16	18				2	20	1			1	0.8	PTB	
EP1	1120/1059.5	2	Longitudinally broken - left	Silcrete	1	15.29	14.11	3.9	11.7	2.69					1					3.4			2	10	1					0.9	
EP1	1120/1059.5	2	Flake fragment - marginal	Silcrete	1	27.83	13.6	7.34													5.5		2	20	1			60		2.7	
EP1	1120/1059.5	2	Complete flake	Silcrete	1	19.6	13.82	5.32	12.3	4.05					1				7.5				4							1.4	
EP1	1120/1059.5	2	Complete flake	Silcrete	1	15.67	6.93	2.11	4.45	1.39					1								3	10	1					0.2	
EP1	1120/1059.5	2	Flake fragment - distal	Silcrete	1	8.35	14.98	1.56											3.2				3							0.2	
EP1	1120/1059.5	2	Flake fragment - medial	Silcrete	1	10.78	16.45	3.53										11					1	90	1					0.5	
EP1	1120/1059.5	2	Flake fragment - proximal	Silcrete	1	10.15	11.33	1.54	4.71	1.1					1								4					10		0.3	

Sample Square			Artefact Type	Lithology	Grain	Artefact Dimensions			Platform Dimension & Type			Retouched/Utilised			Other			Comments													
Excavation area	Pit#	Spit#				Length (mm)	Width (mm)	Thickness (mm)	Width (mm)	Thickness (mm)	Number of Platforms (conv)	Cortical	Crushed	Faceted	Flat	Focussed	Left Lat. Margin	Right Lat. Margin	Proximal Margin	Distal Margin	Margin	Length (mm)	No of Scars	% of Cortex	River stone cortex	Terrestrial Cortex	Unknown Cortex	% of Heat Fracture Scars	No of Parallel Arris	Weight (g)	Comments
EP1 1120/1059.5	2		Flake fragment - proximal	Silcrete	1	6.91	9.79	2.26	9.95	2.13					1				10									90	0.2	Backing on prox	
EP1 1120/1059.5	2		Debris	Silcrete	1	8.06	6.48	3.32																						0.2	
EP1 1150/1090	1		Scraper	Silcrete	1	21.47	18.91	5.74										11	17					4	30	1				3.3	
EP1 1150/1090	1		Debris	Silcrete	1	12.47	5.28	3.46																						0.2	
EP1 1150/1089.5	1		RUP	Mudstone	1	21.12	13.94	9.65														22								1.7	
EP1 1120/1060	2		Flake fragment - medial	Silcrete	1	21.81	16.06	3.09														3.7		4					3	1.3	
EP1 1120/1060	2		Flake fragment - proximal	Silcrete	1	7.85	10.13	3.26	3.14	2.22					1								1							0.3	
EP1 1120/1060	2		Complete flake	Silcrete	1	10.99	7.96	1.44	5.03	1.32					1								3						2	0.1	
EP1 1120/1060	1		Core - MPC	Silcrete	1	29.51	15.67	11.39	25.5	9.48	3												8	5	1					6.9	
EP1 1120/1060	1		Flake fragment - marginal	Silcrete	1	16.75	16.06	5.69	12.7	4.29					1			4.8					2	20	1					2.2	
EP1 1120/1060	1		Flake fragment - proximal	Silcrete	1	9.32	9.18	2.44	6.18	2.36	1												2						1	0.2	PTB
EP1 1120/1060	1		Debris	Silcrete	1	11.53	7.93	4.93																						0.4	
EP1 1120/1060	1		Flake fragment - proximal	Silcrete	1	10.55	8.06	2.12	5.03	1.82					1			9					2						1	0.2	PTB
EP1 1120/1060	1		Flake fragment - distal	Silcrete	1	7.13	13.9	1.92										8		13			2							0.2	
EP1 1120/1060	1		Flake fragment - distal	Silcrete	1	10.08	6.05	2.15															1						25	0.1	
EP1 1120/1060	1		Flake fragment - marginal	Silcrete	1	6.87	4.32	1.17																					30	0	
EP1 1120/1060	1		Flake fragment - marginal	Silcrete	1	11.49	4.92	1.52															4							0.1	
EP1 1120.5/1060	1		Flake fragment - marginal	Silcrete	1	40.19	29.28	12.13	28.9	7.52					1								4							18	
EP1 1120.5/1060	1		Flake fragment - proximal	Silcrete	1	8.62	10.35	1.96	5.66	1.92					1			8.6	8				2						1	0.2	PTB
EP1 1120.5/1060	1		Flake fragment - proximal	Mudstone	1	16.59	6.85	2.97	5.94	3					1								3						1	0.4	PTB
EP1 1120.5/1060	1		Flake fragment - marginal	Silcrete	1	8.37	6.11	1.7	4.33	1.06					1								4						2	0.1	Blade
EP1 1120.5/1060	1		Core fragment	Mudstone	1	3.14	6.86	1.52															2							0.1	
EP1 1120.5/1060	2		Flake fragment - marginal	Mudstone	1	19.71	8.31	3.34	6.84	4.18					1								2							0.8	Double bulb
EP1 1120.5/1060	2		Flake fragment - marginal	Silcrete	1	12.07	5.9	1.66	4.57	0.94					1								3						2	0.2	Blade
EP1 1120.5/1060	2		Complete flake	Silcrete	1	6.7	11.15	2.08	7.18	2.13	1												3							0.2	
EP1 1120.5/1059.5	2		Burien	Silcrete	1	41.93	8.6	3.65	3.89	3.46					1			39	33					1	75	1				1.8	King on right, retouch on left
EP1 1120.5/1059.5	2		Complete flake	Silcrete	1	17.87	15.79	5.08	11.2	4.34								11							80	1				1.7	
EP1 1120.5/1059.5	2		Flake fragment - marginal	Silcrete	1	22.16	27.5	6.36	12.9	3.75					1				12				1		60	1				4.2	
EP1 1120.5/1059.5	2		Debris	Silcrete	1	14.14	10.73	7.72																						1.2	
EP1 1120.5/1059.5	2		Flake fragment - proximal	Silcrete	1	15.26	10.66	3.9	5.18	2.11								15						2				10	1	1	
EP1 1120.5/1059.5	2		Flake fragment - proximal	Silcrete	1	12.74	9.02	2.57	5.75	1.74					1									3						0.3	



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## Appendix 4: AHIMS search results and site cards

## AHIMS Web Services (AWS)

### Extensive search - Site list report

Your Ref/PO Number : Elizabeth Predinct  
Client Service ID : 496851

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
45-5-2788	B 112	AGD	56	291490	6248790	Open site	Valid	Artefact : -		
	<b>Contact</b>	<b>Recorders</b>	Navin Officer Heritage Consultants Pty Ltd					<b>Permits</b>		
45-5-2710	DUKE 9	AGD	56	292500	6251800	Open site	Valid	Artefact : -		1345,1539,473 7
	<b>Contact</b>	<b>Recorders</b>	Dominic Steele Archaeological Consulting					<b>Permits</b>		
45-5-2816	IF/1	AGD	56	292300	6251750	Open site	Valid	Artefact : -		4737
	<b>Contact</b>	<b>Recorders</b>	Dominic Steele Archaeological Consulting					<b>Permits</b>		
45-5-2630	B 40	AGD	56	291900	6247660	Open site	Valid	Modified Tree (Carved or Scarred) :		
	<b>Contact</b>	<b>Recorders</b>	Navin Officer Heritage Consultants Pty Ltd					<b>Permits</b>		
45-5-5240	Gandangara LALC Elizabeth Drive AFT 2	GDA	56	292088	6249612	Open site	Valid	Artefact : -		
	<b>Contact</b>	<b>Recorders</b>	Kelleher Nightingale Consulting Pty Ltd, Miss. Kristen Taylor					<b>Permits</b>		
45-5-2763	B87	AGD	56	291080	6249400	Open site	Valid	Artefact : -		
	<b>Contact</b>	<b>Recorders</b>	Navin Officer Heritage Consultants Pty Ltd					<b>Permits</b>		
45-5-2767	B53	AGD	56	292070	6247620	Open site	Valid	Artefact : -		
	<b>Contact</b>	<b>Recorders</b>	Navin Officer Heritage Consultants Pty Ltd					<b>Permits</b>		
45-5-2768	B41	AGD	56	292100	6249010	Open site	Valid	Artefact : -		
	<b>Contact</b>	<b>Recorders</b>	Navin Officer Heritage Consultants Pty Ltd					<b>Permits</b>		
45-5-2769	B-14	AGD	56	292070	6247700	Open site	Valid	Artefact : -		
	<b>Contact</b>	<b>Recorders</b>	Navin Officer Heritage Consultants Pty Ltd					<b>Permits</b>		
45-5-2685	B74	AGD	56	291520	6247320	Open site	Valid	Artefact : -		
	<b>Contact</b>	<b>Recorders</b>	Navin Officer Heritage Consultants Pty Ltd					<b>Permits</b>		
45-5-4099	BC-EX01-11	GDA	56	291932	6247569	Open site	Valid	Artefact : 11		
	<b>Contact</b>	<b>Recorders</b>	Mr.Geordie Oakes,AECOM Australia Pty Ltd - Sydney					<b>Permits</b>		
45-5-3999	PAD 2001-6	GDA	56	295825	6248852	Open site	Valid	Potential Archaeological Deposit (PAD) :-		
	<b>Contact</b>	<b>Recorders</b>	Extent Heritage Pty Ltd - Pyrmont - Individual users, Doctor. Alan Williams					<b>Permits</b>		
45-5-4006	Artefact Scatter PAD 2007-4	GDA	56	295792	6248524	Open site	Valid	Artefact : -		
	<b>Contact</b>	<b>Recorders</b>	Extent Heritage Pty Ltd - Pyrmont - Individual users, Doctor. Alan Williams					<b>Permits</b>		
45-5-5259	Elizabeth Drive AFT 1	GDA	56	293377	6249426	Open site	Valid	Artefact : -		
	<b>Contact</b>	<b>Recorders</b>	Kelleher Nightingale Consulting Pty Ltd, Miss. Kristen Taylor					<b>Permits</b>		
45-5-5230	Elizabeth Precinct Isolated Find 03 (EPIF 03)	GDA	56	293375	6249980	Open site	Valid	Artefact : -		
	<b>Contact</b>	<b>Recorders</b>	Artefact - Cultural Heritage Management - Rose Bay, Ms. Jennifer Norfolk					<b>Permits</b>		
45-5-5231	Elizabeth Precinct Isolated Find 02 (EPIF 02)	GDA	56	293466	6250004	Open site	Valid	Artefact : -		

Report generated by AHIMS Web Service on 09/04/2020 for Alyce Haast for the following area at Datum :GDA, Zone : 56, Eastings : 291052 - 296054, Northings : 6247329 - 6252066 with a Buffer of 0 meters. Additional Info : update to test excavation report. Number of Aboriginal sites and Aboriginal objects found is 72

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SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
45-5-5232	<b>Contact</b> Elizabeth Predinct Isolated Find 01 (EPIF 01)	<b>Recorders</b> GDA	Artefact - Cultural Heritage Management - Rose Bay,Ms.Jennifer Norfolk	56 293416	6249892	Open site	Valid	Artefact :-	<b>Permits</b>	
		<b>Recorders</b> GDA	Artefact - Cultural Heritage Management - Rose Bay,Ms.Jennifer Norfolk	56 293412	6249873	Open site	Valid	Artefact :-	<b>Permits</b>	
45-5-5233	<b>Contact</b> Elizabeth Predinct Artefact Scatter 01 (EPAS 01)	<b>Recorders</b> GDA	Artefact - Cultural Heritage Management - Rose Bay,Ms.Jennifer Norfolk	56 292300	6251255	Open site	Valid	Artefact : 1, Potential Archaeological Deposit (PAD) : 1	<b>Permits</b>	
		<b>Recorders</b> GDA	Artefact - Cultural Heritage Management - Rose Bay,Ms.Jennifer Norfolk	56 292300	6251255	Open site	Valid	Artefact : 1, Potential Archaeological Deposit (PAD) : 1	<b>Permits</b>	
45-5-5294	<b>Contact</b> Badgerys Creek East (BCE)	<b>Recorders</b> GDA	Mr.Andrew Costello,Jacobs Group (Australia) Pty Ltd - North Sydney	56 292790	6251200	Open site	Valid	Artefact : 1, Potential Archaeological Deposit (PAD) : 1	<b>Permits</b>	
		<b>Recorders</b> GDA	Mr.Andrew Costello,Jacobs Group (Australia) Pty Ltd - North Sydney	56 292300	6251255	Open site	Valid	Artefact : 1, Potential Archaeological Deposit (PAD) : 1	<b>Permits</b>	
45-5-5298	<b>Contact</b> Badgerys West Pad B (BWB)	<b>Recorders</b> GDA	Mr.Andrew Costello,Jacobs Group (Australia) Pty Ltd - North Sydney	56 292790	6251200	Open site	Valid	Artefact : 1, Potential Archaeological Deposit (PAD) : 1	<b>Permits</b>	
		<b>Recorders</b> GDA	Mr.Andrew Costello,Jacobs Group (Australia) Pty Ltd - North Sydney	56 292790	6251200	Open site	Valid	Artefact : 1, Potential Archaeological Deposit (PAD) : 1	<b>Permits</b>	
45-5-5303	<b>Contact</b> Kemps North West (KNW) PAD	<b>Recorders</b> GDA	Mr.Andrew Costello,Jacobs Group (Australia) Pty Ltd - North Sydney	56 292790	6251200	Open site	Valid	Artefact : 1, Potential Archaeological Deposit (PAD) : 1	<b>Permits</b>	
		<b>Recorders</b> GDA	Mr.Andrew Costello,Jacobs Group (Australia) Pty Ltd - North Sydney	56 292790	6251200	Open site	Valid	Artefact : 1, Potential Archaeological Deposit (PAD) : 1	<b>Permits</b>	
45-5-5304	<b>Contact</b> PCP-8	<b>Recorders</b> GDA	Mr.Andrew Costello,Jacobs Group (Australia) Pty Ltd - North Sydney	56 292790	6251200	Open site	Valid	Artefact : 1, Potential Archaeological Deposit (PAD) : 1	<b>Permits</b>	
		<b>Recorders</b> GDA	Mr.Andrew Costello,Jacobs Group (Australia) Pty Ltd - North Sydney	56 292790	6251200	Open site	Valid	Artefact : 1, Potential Archaeological Deposit (PAD) : 1	<b>Permits</b>	
45-5-5305	<b>Contact</b> Range Road (RR)	<b>Recorders</b> GDA	Mr.Andrew Costello,Jacobs Group (Australia) Pty Ltd - North Sydney	56 292790	6251200	Open site	Valid	Artefact : 1, Potential Archaeological Deposit (PAD) : 1	<b>Permits</b>	
		<b>Recorders</b> GDA	Mr.Andrew Costello,Jacobs Group (Australia) Pty Ltd - North Sydney	56 293940	6251020	Open site	Valid	Artefact : 1, Potential Archaeological Deposit (PAD) : 1	<b>Permits</b>	
45-5-5306	<b>Contact</b> South Creek East (SCE)	<b>Recorders</b> GDA	Mr.Andrew Costello,Jacobs Group (Australia) Pty Ltd - North Sydney	56 293360	6251085	Open site	Valid	Artefact : 1, Potential Archaeological Deposit (PAD) : 1	<b>Permits</b>	
		<b>Recorders</b> GDA	Mr.Andrew Costello,Jacobs Group (Australia) Pty Ltd - North Sydney	56 293360	6251085	Open site	Valid	Artefact : 1, Potential Archaeological Deposit (PAD) : 1	<b>Permits</b>	
45-5-5307	<b>Contact</b> South Creek West T1 (SCW T1)	<b>Recorders</b> GDA	Jacobs Group (Australia) Pty Ltd - North Sydney,Mr.Andrew Costello	56 293360	6251085	Open site	Valid	Artefact : 1, Potential Archaeological Deposit (PAD) : 1	<b>Permits</b>	
		<b>Recorders</b> GDA	Jacobs Group (Australia) Pty Ltd - North Sydney,Mr.Andrew Costello	56 293360	6251085	Open site	Valid	Artefact : 1, Potential Archaeological Deposit (PAD) : 1	<b>Permits</b>	
45-5-5308	<b>Contact</b> South Creek West T2 (SCW T2)	<b>Recorders</b> GDA	Jacobs Group (Australia) Pty Ltd - North Sydney,Mr.Andrew Costello	56 293360	6251085	Open site	Valid	Artefact : 1, Potential Archaeological Deposit (PAD) : 1	<b>Permits</b>	
		<b>Recorders</b> GDA	Jacobs Group (Australia) Pty Ltd - North Sydney,Mr.Andrew Costello	56 293360	6251085	Open site	Valid	Artefact : 1, Potential Archaeological Deposit (PAD) : 1	<b>Permits</b>	

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SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
<b><u>Contact</u></b>										
45-5-5234	Elizabeth Precinct PAD 03	GDA	Mr.Andrew Costello,Jacobs Group (Australia) Pty Ltd - North Sydney	56 293924	6249724	Open site	Valid	Potential Archaeological Deposit (PAD) :-	Permits	
<b><u>Contact</u></b>										
45-5-5235	Elizabeth Precinct PAD 02	GDA	Artefact - Cultural Heritage Management - Rose Bay,Ms,Jennifer Norfolk	56 293327	6249529	Open site	Valid	Potential Archaeological Deposit (PAD) :-	Permits	
<b><u>Contact</u></b>										
45-5-5236	Elizabeth Precinct PAD 01	GDA	Artefact - Cultural Heritage Management - Rose Bay,Ms,Jennifer Norfolk	56 293094	6249617	Open site	Valid	Potential Archaeological Deposit (PAD) :-	Permits	
<b><u>Contact</u></b>										
45-5-2309	BC/ED1	AGD	Artefact - Cultural Heritage Management - Rose Bay,Ms,Jennifer Norfolk	56 292260	6249550	Open site	Valid	Artefact :-	Permits	3346
<b><u>Contact</u></b>										
45-5-0215	South Creek	AGD	Helen Brayshaw	56 293800	6249900	Open site	Valid	Grinding Groove :-	Permits	362
<b><u>Contact</u></b>										
45-5-0496	Fleurs1 Fleurs Radio Telescope	AGD	Ms,Laila Haglund	56 293750	6250730	Open site	Valid	Artefact :-	Permits	961,1018,9843 5
<b><u>Contact</u></b>										
45-5-0517	Badgery's Creek / Longleys Road Badgery's Creek	AGD	University of Sydney	56 291940	6247650	Open site	Valid	Artefact :-	Permits	1018
<b><u>Contact</u></b>										
45-5-0528	Fleurs 2 (Fleurs Prospect)	AGD	Mr.Allan Lance	56 292650	6251150	Open site	Valid	Artefact :-	Permits	1018
<b><u>Contact</u></b>										
45-5-5068	B131	GDA	Richard Wright	56 291374	6249478	Open site	Valid	Artefact : 1	Permits	
<b><u>Contact</u></b>										
45-5-5086	B164	GDA	Navin Officer Heritage Consultants Pty Ltd,Mrs.Io Dibben	56 291416	6249269	Open site	Valid	Artefact :-	Permits	
<b><u>Contact</u></b>										
45-5-5087	B165	GDA	Navin Officer Heritage Consultants Pty Ltd,Miss,Jasmine Fenyyvesi	56 291638	6249555	Open site	Valid	Artefact :-	Permits	
<b><u>Contact</u></b>										
45-5-5088	B166	GDA	Navin Officer Heritage Consultants Pty Ltd,Miss,Jasmine Fenyyvesi	56 291597	6249204	Open site	Valid	Artefact :-	Permits	
<b><u>Contact</u></b>										
45-5-5089	B163	GDA	Navin Officer Heritage Consultants Pty Ltd,Miss,Jasmine Fenyyvesi	56 291331	6249177	Open site	Valid	Artefact :-	Permits	
<b><u>Contact</u></b>										
45-5-5090	B158	GDA	Navin Officer Heritage Consultants Pty Ltd,Miss,Jasmine Fenyyvesi	56 291916	6247879	Open site	Valid	Artefact :-	Permits	
<b><u>Contact</u></b>										
		GDA	Navin Officer Heritage Consultants Pty Ltd,Miss,Jasmine Fenyyvesi						Permits	

## AHIMS Web Services (AWS)

### Extensive search - Site list report

Your Ref/PO Number : Elizabeth Predinct  
Client Service ID : 496851

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
45-5-5094	B154	GDA	56	291387	6249360	Open site	Valid	Artefact : -		
	<b>Contact</b>	<b>Recorders</b>	Navin Officer Heritage Consultants Pty Ltd, Miss, Jasmine Fenyvesi							<b>Permits</b>
45-5-5095	B153	GDA	56	292169	6249253	Open site	Valid	Artefact : -		
	<b>Contact</b>	<b>Recorders</b>	Navin Officer Heritage Consultants Pty Ltd, Miss, Jasmine Fenyvesi							<b>Permits</b>
45-5-5096	B152	GDA	56	292043	6249416	Open site	Valid	Artefact : -		
	<b>Contact</b>	<b>Recorders</b>	Navin Officer Heritage Consultants Pty Ltd, Miss, Jasmine Fenyvesi							<b>Permits</b>
45-5-5097	B151	GDA	56	291950	6249517	Open site	Valid	Artefact : -		
	<b>Contact</b>	<b>Recorders</b>	Navin Officer Heritage Consultants Pty Ltd, Miss, Jasmine Fenyvesi							<b>Permits</b>
45-5-5099	B146	GDA	56	291304	6248825	Open site	Valid	Artefact : -		
	<b>Contact</b>	<b>Recorders</b>	Navin Officer Heritage Consultants Pty Ltd, Miss, Jasmine Fenyvesi							<b>Permits</b>
45-5-5100	B147	GDA	56	291272	6248841	Open site	Valid	Artefact : -		
	<b>Contact</b>	<b>Recorders</b>	Navin Officer Heritage Consultants Pty Ltd, Miss, Jasmine Fenyvesi							<b>Permits</b>
45-5-5101	B149	GDA	56	291781	6249036	Open site	Valid	Artefact : -		
	<b>Contact</b>	<b>Recorders</b>	Navin Officer Heritage Consultants Pty Ltd, Miss, Jasmine Fenyvesi							<b>Permits</b>
45-5-5079	B155	GDA	56	292110	6248827	Open site	Valid	Artefact : -		
	<b>Contact</b>	<b>Recorders</b>	Navin Officer Heritage Consultants Pty Ltd, Miss, Jasmine Fenyvesi							<b>Permits</b>
45-5-5080	B156	GDA	56	291953	6248581	Open site	Valid	Artefact : -		
	<b>Contact</b>	<b>Recorders</b>	Navin Officer Heritage Consultants Pty Ltd, Miss, Jasmine Fenyvesi							<b>Permits</b>
45-5-5081	B157	GDA	56	292146	6248243	Open site	Valid	Artefact : -		
	<b>Contact</b>	<b>Recorders</b>	Navin Officer Heritage Consultants Pty Ltd, Miss, Jasmine Fenyvesi							<b>Permits</b>
45-5-5083	B160	GDA	56	291510	6247663	Open site	Valid	Artefact : -		
	<b>Contact</b>	<b>Recorders</b>	Navin Officer Heritage Consultants Pty Ltd, Miss, Jasmine Fenyvesi							<b>Permits</b>
45-5-5085	B162	GDA	56	291157	6248456	Open site	Valid	Artefact : -		
	<b>Contact</b>	<b>Recorders</b>	Navin Officer Heritage Consultants Pty Ltd, Miss, Jasmine Fenyvesi							<b>Permits</b>
45-5-5102	B148	GDA	56	291448	6248568	Open site	Valid	Artefact : -		
	<b>Contact</b>	<b>Recorders</b>	Navin Officer Heritage Consultants Pty Ltd, Miss, Jasmine Fenyvesi							<b>Permits</b>
45-5-5103	B150	GDA	56	291780	6249055	Open site	Valid	Artefact : -		
	<b>Contact</b>	<b>Recorders</b>	Navin Officer Heritage Consultants Pty Ltd, Miss, Jasmine Fenyvesi							<b>Permits</b>
45-5-5104	PAD 2	GDA	56	294516	6249243	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	<b>Contact</b>	<b>Recorders</b>	Navin Officer Heritage Consultants Pty Ltd, Miss, Jasmine Fenyvesi							<b>Permits</b>
45-5-5022	B113	GDA	56	291594	6248980	Open site	Valid	Artefact : 1		
	<b>Contact</b>	<b>Recorders</b>	Navin Officer Heritage Consultants Pty Ltd, Mrs, Jo Dibben							<b>Permits</b>
41-5-0014	M12-AS-04	GDA	56	294361	6250957	Open site	Valid	Artefact : 1		

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## AHIMS Web Services (AWS)

### Extensive search - Site list report

Your Ref/PO Number : Elizabeth Predinct  
Client Service ID : 496851

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
45-5-5172	<b>Contact</b>	<b>Recorders</b>	Jacobs Group (Australia) Pty Ltd - Newcastle, Miss. Chelsea Jones							
	B170	GDA	56	292275	6249513	Open site	Valid	Artefact : -	Permits	
45-5-5173	<b>Contact</b>	<b>Recorders</b>	Navin Officer Heritage Consultants Pty Ltd, Miss. Jasmine Fenyvesi							
	B169	GDA	56	291139	6249197	Open site	Valid	Artefact : -	Permits	
45-5-5175	<b>Contact</b>	<b>Recorders</b>	Navin Officer Heritage Consultants Pty Ltd, Miss. Jasmine Fenyvesi							
	B167	GDA	56	291064	6248281	Open site	Valid	Artefact : -	Permits	
45-5-5058	<b>Contact</b>	<b>Recorders</b>	Navin Officer Heritage Consultants Pty Ltd, Miss. Jasmine Fenyvesi							
	B121	GDA	56	292147	6248734	Open site	Valid	Artefact : 1	Permits	
45-5-2665	<b>Contact</b>	<b>Recorders</b>	Navin Officer Heritage Consultants Pty Ltd, Mrs. Jo Dibden							
	B88	AGD	56	291220	6249120	Open site	Valid	Artefact : -	Permits	
45-5-2667	<b>Contact</b>	<b>Recorders</b>	Navin Officer Heritage Consultants Pty Ltd							
	B90	AGD	56	291800	6248760	Open site	Valid	Artefact : -	Permits	
45-5-2682	<b>Contact</b>	<b>Recorders</b>	Navin Officer Heritage Consultants Pty Ltd							
	B75	AGD	56	291640	6247700	Open site	Valid	Artefact : -	Permits	102196
45-5-2683	<b>Contact</b>	<b>Recorders</b>	Navin Officer Heritage Consultants Pty Ltd							
	B76	AGD	56	291860	6247720	Open site	Valid	Artefact : -	Permits	
45-5-2690	<b>Contact</b>	<b>Recorders</b>	Navin Officer Heritage Consultants Pty Ltd							
	B59	AGD	56	291550	6247420	Open site	Valid	Artefact : -	Permits	
45-5-2705	<b>Contact</b>	<b>Recorders</b>	Navin Officer Heritage Consultants Pty Ltd							
	B15	AGD	56	291000	6248120	Open site	Valid	Artefact : -	Permits	
45-5-4748	<b>Contact</b>	<b>Recorders</b>	Navin Officer Heritage Consultants Pty Ltd							
	M12 A2	GDA	56	292624	6251214	Open site	Valid	Artefact : -	Permits	
45-5-4749	<b>Contact</b>	<b>Recorders</b>	Navin Officer Heritage Consultants Pty Ltd, Mrs. Nicola Hayes							
	M12 A4	GDA	56	293785	6251051	Open site	Valid	Artefact : -	Permits	
45-5-4750	<b>Contact</b>	<b>Recorders</b>	Navin Officer Heritage Consultants Pty Ltd, Mrs. Nicola Hayes							
	M12 A3	GDA	56	292725	6251214	Open site	Valid	Artefact : -	Permits	
45-5-4747	<b>Contact</b>	<b>Recorders</b>	Navin Officer Heritage Consultants Pty Ltd, Mrs. Nicola Hayes							
	M12 A1	GDA	56	292194	6251184	Open site	Valid	Artefact : -	Permits	
	<b>Contact</b>	<b>Recorders</b>	Navin Officer Heritage Consultants Pty Ltd, Mrs. Nicola Hayes							

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- 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 checked="" 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" value="23-01-2020"/>
	OEH Regional office notified:	<input type="text" value="23-01-2020"/>
<input type="checkbox"/> AHIP (The impacts to this site were authorised by an AHIP.)	AHIP number:	<input type="text"/>
	Date issued/signed:	<input type="text"/>
	AHIMS permit ID/number:	<input type="text"/>
<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: Elizabeth Precinct PAD 02

Easting: 293927 Northing: 6249529 Coordinates must be in GDA (MGA)

Horizontal Accuracy (m): 3

Zone: 56 Location method: Non-Differential GPS

## Recorder Information:

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

Title Surname First name

Ms. Haast Alyce

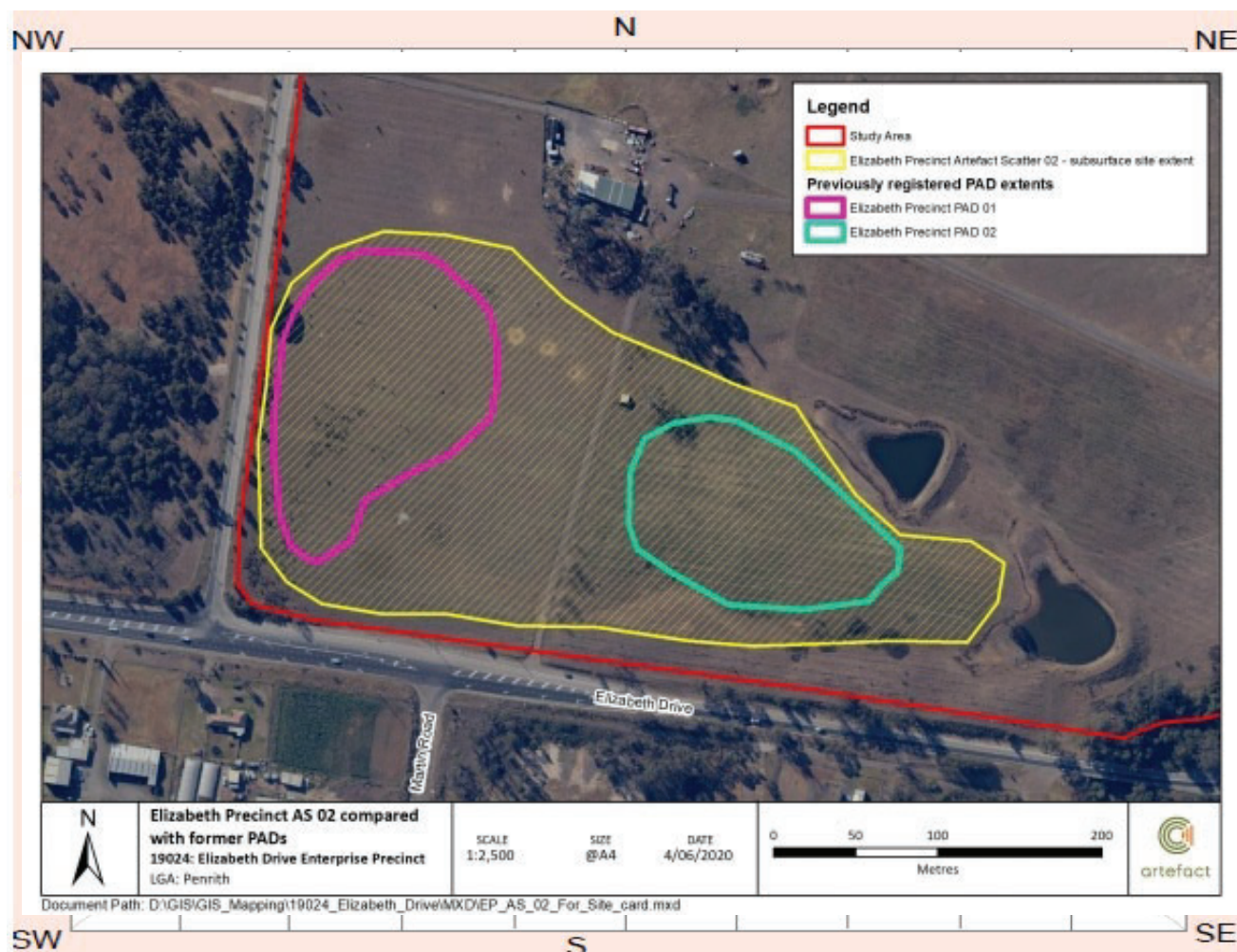
Organisation: Artefact Heritage

Address: Level 4, Building B, 35 Saunders Street, Pyrmont, 2009

Phone: 0412487963 E-mail: alyce.haast@artefact.net.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:

Open

Site condition:

Good

Features:

1.

Potential Archaeological Deposit

Length of feature(s) extent (m)

170

Width of feature (s) extent (m)

110

Scarred Trees

Scar Depth (cm)

Regrowth (cm)

Scar Length (cm)

Scar Width (cm)

Scar shape

Tree Species

Description:

Area of Potential archaeological deposit subject to test excavation and subsequently amalgamated with the extended site extent of Elizabeth Precinct Artefact Scatter 02 (AHIMS ID 45-5-5236) (formerly Elizabeth Precinct PAD 1)

Features:

2.

Length of feature(s) extent (m)

Width of feature (s) extent (m)

Scarred Trees

Scar Depth (cm)

Regrowth (cm)

Scar Length (cm)

Scar Width (cm)

Scar shape

Tree Species

Description:

Features:

3.

Length of feature(s) extent (m)

Width of feature (s) extent (m)

Scarred Trees

Scar Depth (cm)

Regrowth (cm)

Scar Length (cm)

Scar Width (cm)

Scar shape

Tree Species

Description:

Features:

4.

Length of feature(s) extent (m)

Width of feature (s) extent (m)

Scarred Trees

Scar Depth (cm)

Regrowth (cm)

Scar Length (cm)

Scar Width (cm)

Scar shape

Tree Species

Description:

Features:

5.

Length of feature(s) extent (m)

Width of feature (s) extent (m)

Scarred Trees

Scar Depth (cm)

Regrowth (cm)

Scar Length (cm)

Scar Width (cm)

Scar shape

Tree Species

Description:

Other Site Info:

Test ex revealed relatively homogeneous deposit across both EPPAD 1 (crest landform) and EPPAD 2 (spur slope). Based on the history of agricultural use, the generally similar nature of the soil profile across both PADs subject to testing it was considered as one site which was updated with 45-5-5236.

## 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

Site subject to code of practice test excavation involving the excavation of 30 50cm x 50cm excavation units across PAD extent. Elizabeth Precinct PAD 1 (now Elizabeth Precinct AS 02) also subject to test excavation (58 50cmx50cm excavation units). 89 Artefacts were recovered from both testing areas which were relatively similar in artefact types and soils, Site assessed as part of a single site extent which was registered as the updated site boundary of AHIMS ID 45-5-5236

## Management recommendations

Summary of any management recommendations for the AHIMS site

Site now encompassed with site boundaries of Elizabeth Precinct Artefact Scatter 02 (Formerly Elizabeth Precinct PAD 01) (AHIMS ID 45-5-5236).

## 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.

Amalgamated site extent of Elizabeth Precinct Artefact Scatter 02 (AHIMS ID 45-5-5236). Artefacts associated with the site exhibit a high level of variety including a high proportion of formal tools, the use of several raw material types and heat treatment. The assemblage is considered to be highly representative of a variety of land use which is considered to be rare in the local context.

## Additional comments

The assemblage is considered to contain high education potential associated with the morphology of the artefact assemblage. The presence of worked glass artefacts indicate part of the site was formed post-contact and is relatively rare. The site is however considered to have been subject to disturbance associated with post-depositional processes including ploughing and orcharding. The limited site integrity reduces the research potential of the site

AHIMS site ID: 45-5-5235

Date recorded: 23-05-2019

## Site Location Information

Site name: Elizabeth Precinct PAD 02

Easting: 293327

Northing: 6249529

Coordinates must be in GDA (MGA)

Horizontal Accuracy (m):

3

Zone: 56

Location method:

Non-Differential GPS

## Recorder Information

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

Title

Surname

First name

Ms.

Norfolk

Jennifer

Organisation:

Artefact

Address:

35 Saunder Street, Pyrmont 2009

Phone:

0466312832

E-mail:

jennifer.norfolk@artefact.net.au

## Site Context Information

Land Form  
Pattern:

Undulating Plain

Land Use:

Pastoral/Grazing

Land Form  
Unit:

Slope

Vegetation:

Cleared

Distance to  
Water (m):

400

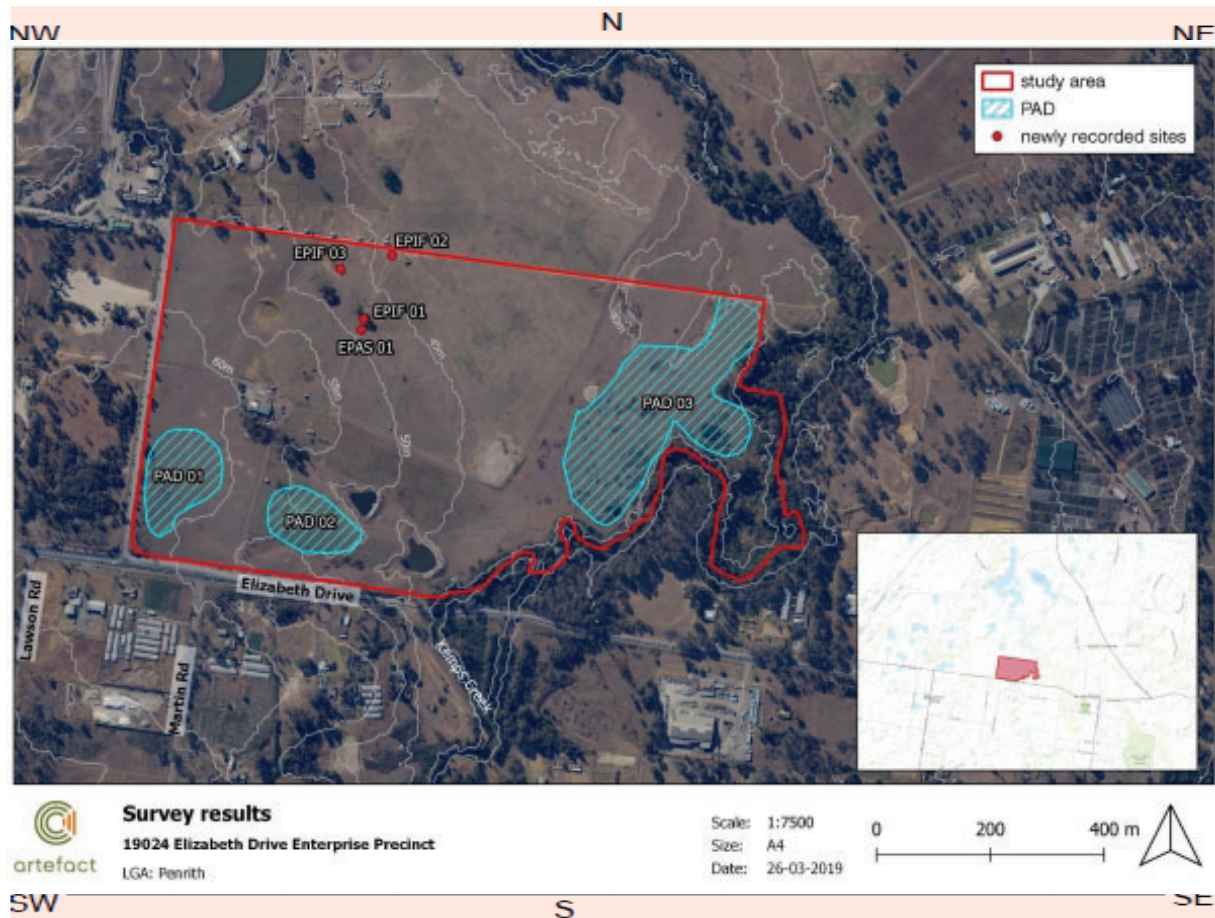
Primary  
Report:

How to get  
to the site:

1669-1723 Elizabeth Drive, Badgerys Creek

Other site  
information:

## Site location map



### Site contents information

open/closed site:

Open

Site condition:

Good

#### Features:

1.

Potential Archaeological Deposit

Number of  
features

Length of  
feature(s)  
extent (m)

170

Width of  
feature (s)  
extent (m)

110

#### Scarred Trees

Scar Depth  
(cm)

Regrowth  
(cm)

Scar shape

Tree Species

#### Description:

associated with a spur land form located above the confluence of two drainage lines, adjacent to first order watercourse, South Creek

#### Features:

2.

Number of  
features

Length of  
feature(s)  
extent (m)

Width of  
feature (s)  
extent (m)

#### Scarred Trees

Scar Depth  
(cm)

Regrowth  
(cm)

Scar shape

Tree Species

#### Description:

**Features:**

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
3. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Description:

## Scarred Trees

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

**Features:**

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
4. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Description:

## Scarred Trees

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

**Features:**

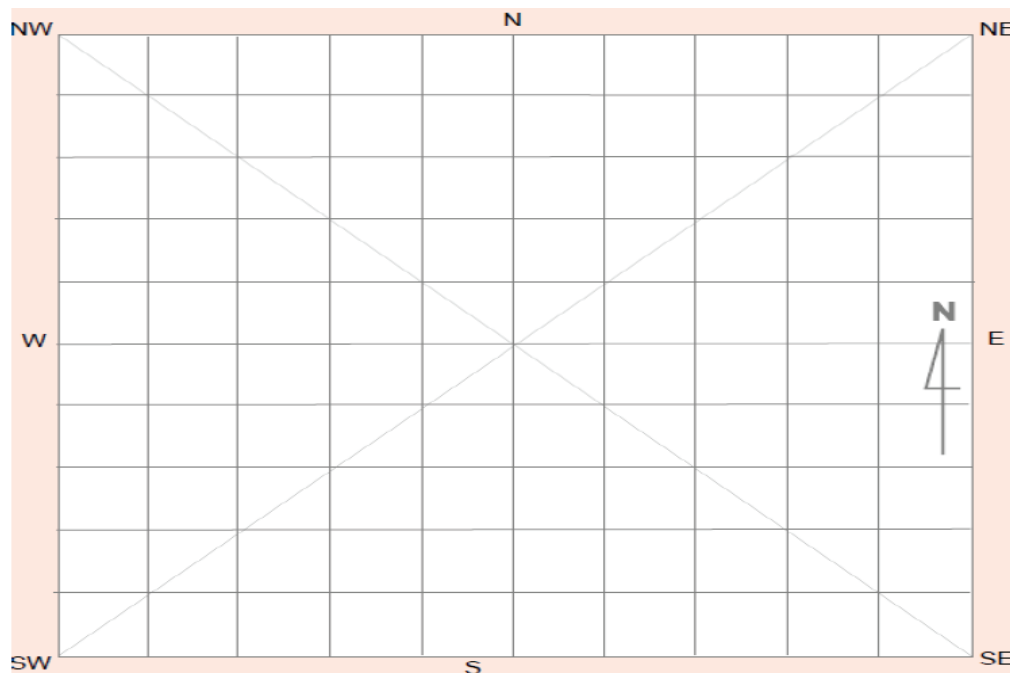
	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
5. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Description:

## Scarred Trees

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

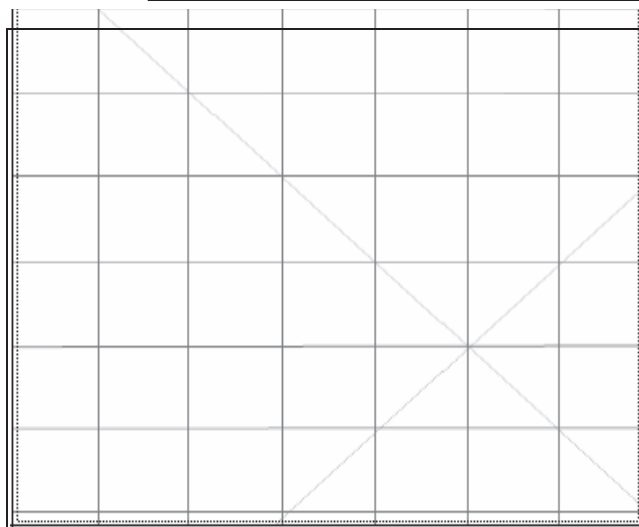
Other Site Info:

**Site plan**

## Site photographs



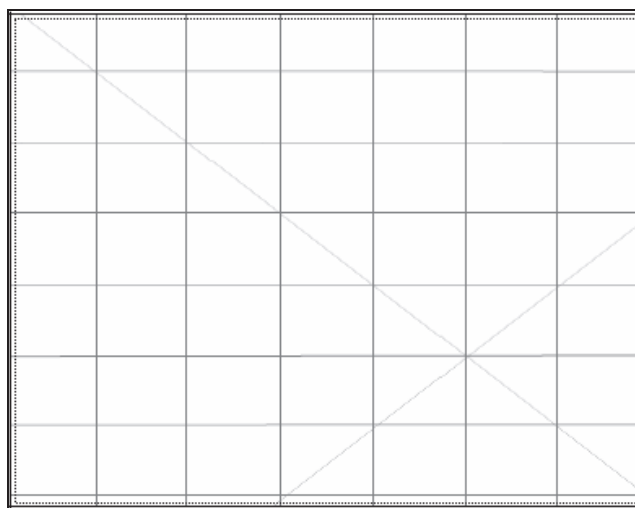
Description:



Description:



Description:



Description:

## Site restrictions

Do you want to  
Restrict this site?:

Restriction type:

Why is this site restricted?:

## Further information contact

Title

Surname

First name

Organisation:

Address:

Phone:

E-mail:





# Aboriginal Site Recording Form

AHIMS Registrar  
PO Box 1967, Hurstville 2220 NSW

AHIMS site ID: 45-5-5236

Date recorded: 04-06-2020

## Site Location Information

Site name: Elizabeth Precinct Artefact Scatter 02 (EP AS 02)

Easting: 293200

Northing: 6249565

Coordinates must be in GDA (MGA)

Horizontal Accuracy (m):

3

Zone: 56

Location method:

Non-Differential GPS

## Recorder Information

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

Title

Surname

First name

Ms.

Haast

Alyce

Organisation: Artefact Heritage

Address: Level 4, Building B, 35 Saunders Street, Pyrmont, 2009

Phone: 0412487963

E-mail: alyce.haast@artefact.net.au

## Site Context Information

Land Form  
Pattern:

Land Use:

Land Form  
Unit:

Vegetation:

Distance to  
Water (m):

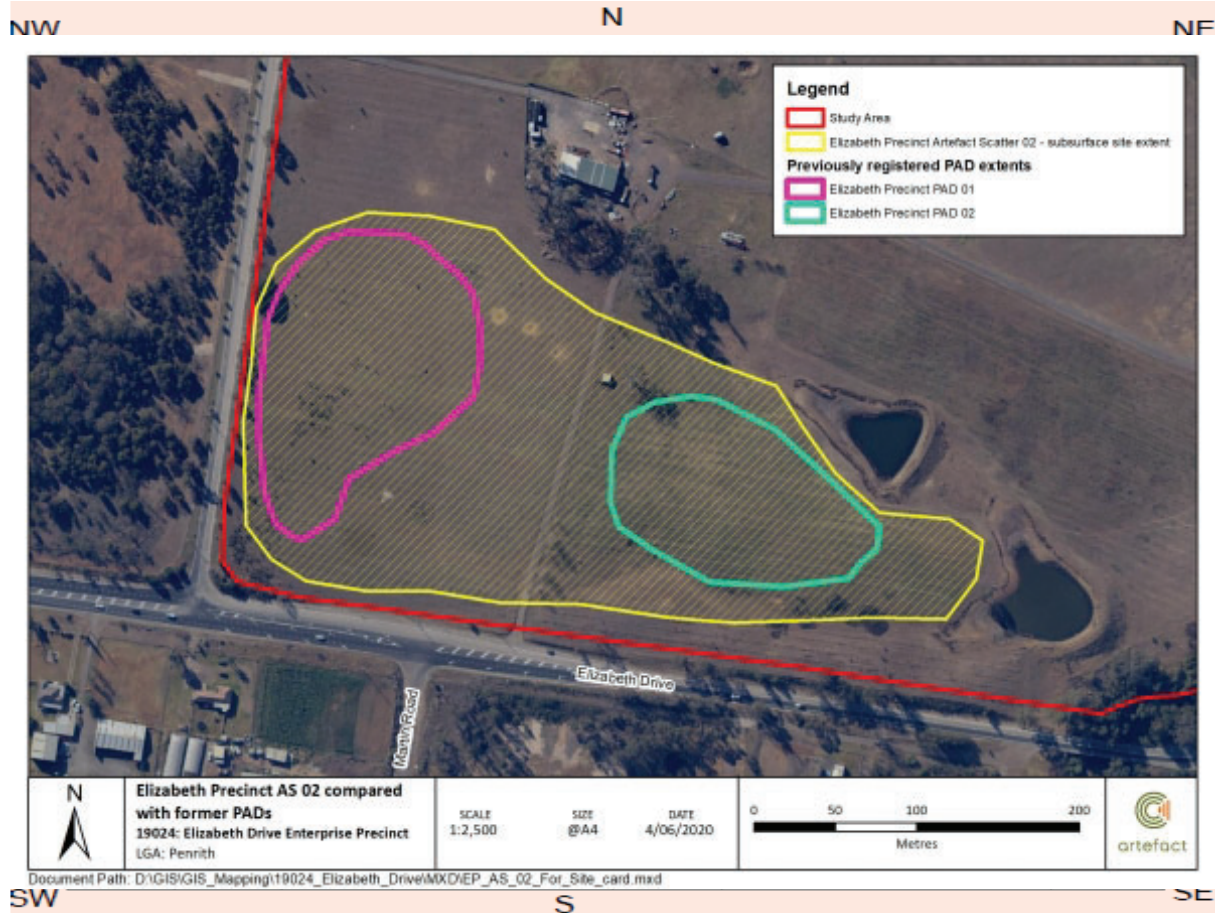
Primary  
Report:

How to get  
to the site:

Other site  
information:

Low density artefact scatter including two concentrations, one with glass artefacts and one with 48 artefacts within a 1x1 metre pit. Artefacts concentrations include formal tools with both areas considered to be associated with reduction activities.

## Site location map



## Site contents information

open/closed site:

Open

Site condition:

Good

### Features:

1.

Artefact

Number of features

89

Length of feature(s) extent (m)

460

Width of feature (s) extent (m)

220

### Scarred Trees

Scar Depth Regrowth (cm)

Scar shape

Tree Species




### Description:

Subsurface Artefact scatter including amalgamated site extent of EP PAD 01 (now Elizabeth Precinct Artefact Scatter 02) and EP PAD 02 (AHIMS ID 45-5-5235). Site comprised of relatively similar artefact types and soil consistency suggested both areas are part of a larger site extent.

### Features:

2.

Number of features

Length of feature(s) extent (m)

Width of feature (s) extent (m)

### Scarred Trees

Scar Depth Regrowth (cm)

Scar shape

Tree Species




### Description:

### Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
3. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Description:

### Scarred Trees

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

### Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
4. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Description:

### Scarred Trees

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

### Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
5. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Description:

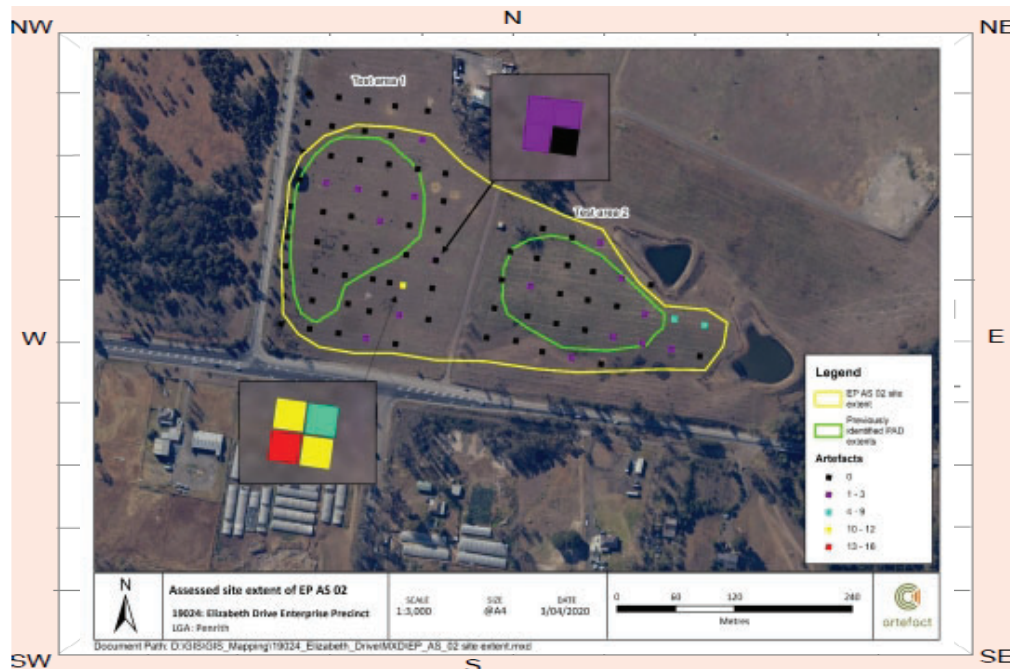
### Scarred Trees

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

Other Site Info:

Low density artefact scatter including two concentrations, one with glass artefacts and one with 48 artefacts within a 1x1 metre pit. Artefacts concentrations include formal tools with both areas considered to be associated with reduction activities.

## Site plan



# 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.



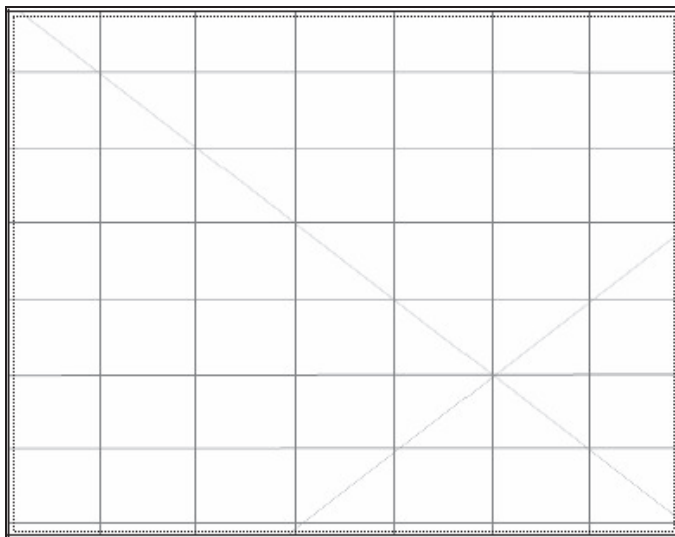
Description: View across spur landform of former PAD extent now amalgamated



Description: silcrete artefacts recovered from test excavation program



Description: Glass artefacts recovered from test excavation program



Description:



## Site photographs



Description: Crest landform in western portion of EPAS 02 formerly as part of EP PAD 01



Description: Spur landform in eastern portion of EPAS 02 formerly as part of EP PAD 02, looking towards South Ck



Description: Silcrete artefacts recovered from EPAS 02



Description: Glass artefacts recovered from EPAS 02

## Site restrictions

Do you want to  
Restrict this site?:

☐

Restriction type:

Gender

General

Location

☐
☐
☐

Why is this site restricted?:

## Further information contact

Title

Surname

First name




Organisation:

Address:

Phone:

E-mail:



# Aboriginal Site Recording Form

AHIMS Registrar  
PO Box 1967, Hurstville 2220 NSW

AHIMS site ID: 45-5-5236

Date recorded: 23-05-2019

## Site Location Information

Site name: Elizabeth Precinct PAD 01

Easting: 293094

Northing: 6249617

Coordinates must be in GDA (MGA)

Horizontal Accuracy (m):

3

Zone: 56

Location method:

Non-Differential GPS

## Recorder Information

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

Title

Surname

First name

Ms.

Norfolk

Jennifer

Organisation:

Artefact

Address:

35 Saunder Street, Pyrmont 2009

Phone:

0466312832

E-mail:

jennifer.norfolk@artefact.net.au

## Site Context Information

Land Form  
Pattern:

Undulating Plain

Land Use:

Mining

Land Form  
Unit:

Slope

Vegetation:

Cleared

Distance to  
Water (m):

500

Primary  
Report:

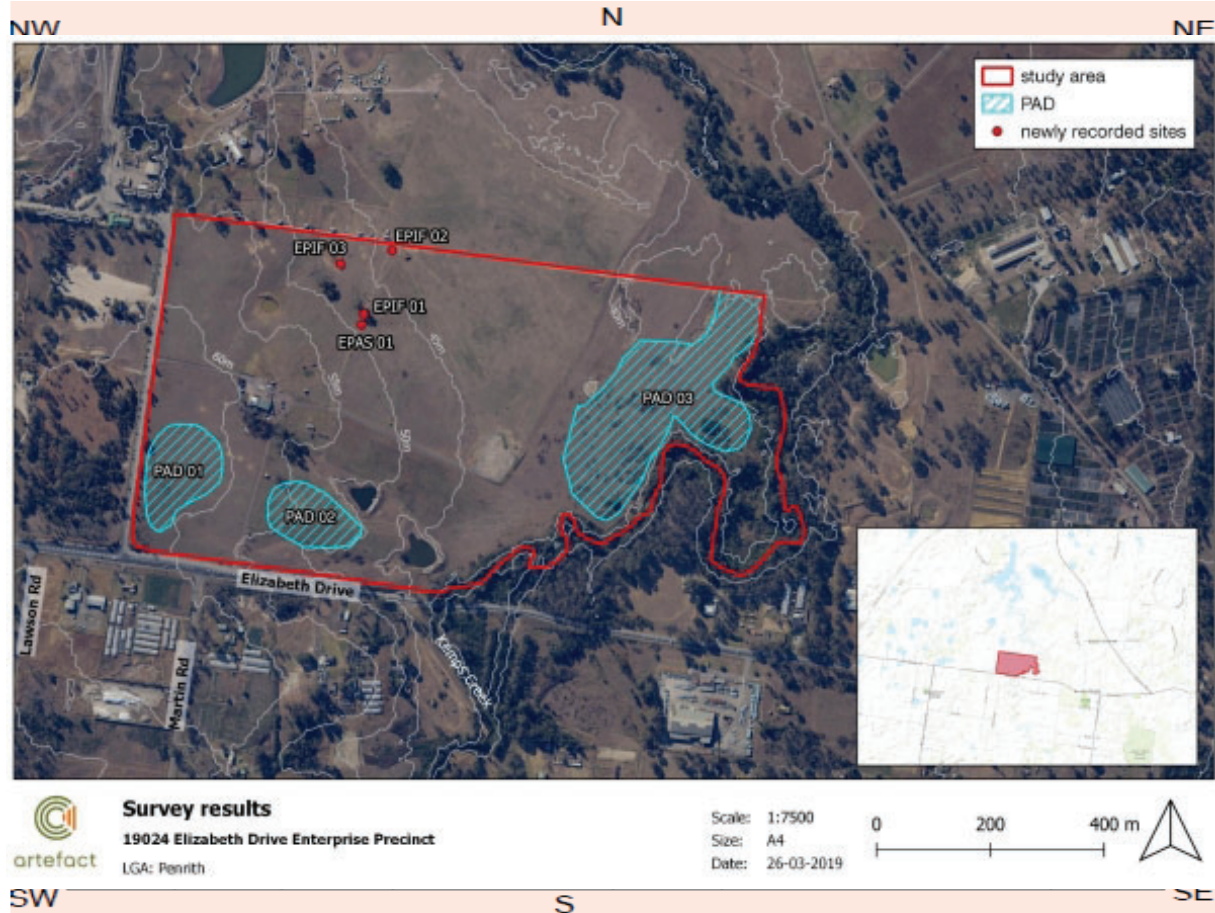
How to get  
to the site:

1669-1723 Elizabeth Drive, Badgerys Creek

Other site  
information:



## Site location map



### Site contents information

open/closed site:

Open

Site condition:

Good

#### Features:

1.

Potential Archaeological Deposit

Number of  
features

1

Length of  
feature(s)  
extent (m)

190

Width of  
feature (s)  
extent (m)

135

#### Scarred Trees

Scar Depth  
(cm)

1

Regrowth  
(cm)

1

Scar shape

1

Tree Species

1

#### Description:

located on a crest landform with gentle slope towards South Creek and Kemps Creek PAD is a raised vantage point in the generally flat surrounding landscape

#### Features:

2.

Number of  
features

1

Length of  
feature(s)  
extent (m)

1

Width of  
feature (s)  
extent (m)

1

#### Scarred Trees

Scar Depth  
(cm)

1

Regrowth  
(cm)

1

Scar shape

1

Tree Species

1

#### Description:

**Features:**

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
3. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Description:

## Scarred Trees

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

**Features:**

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
4. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Description:

## Scarred Trees

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

**Features:**

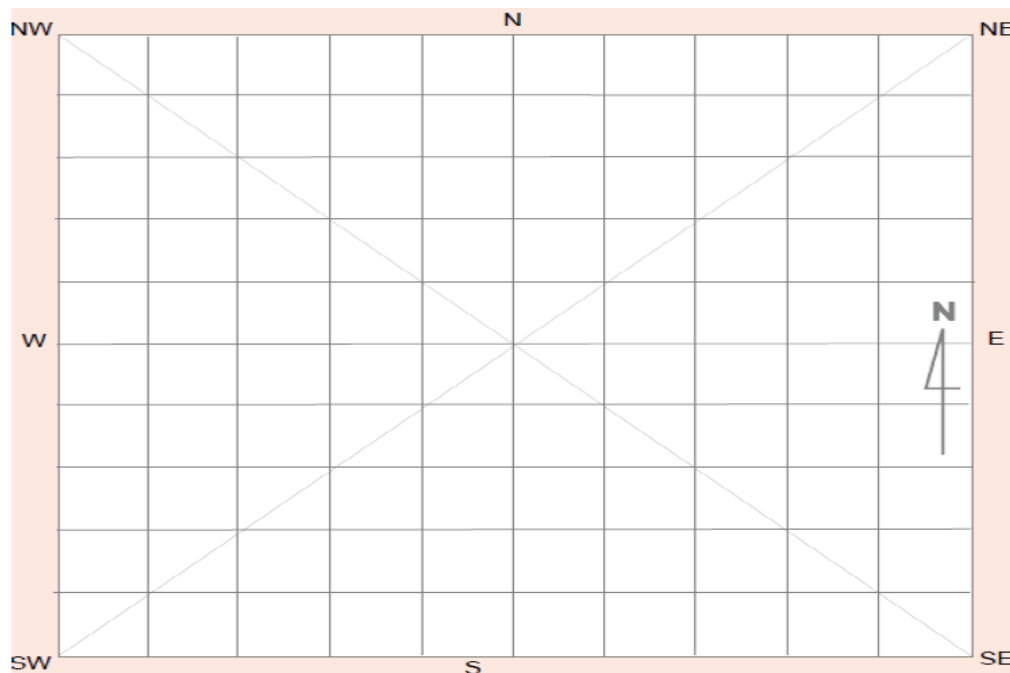
	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
5. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Description:

## Scarred Trees

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

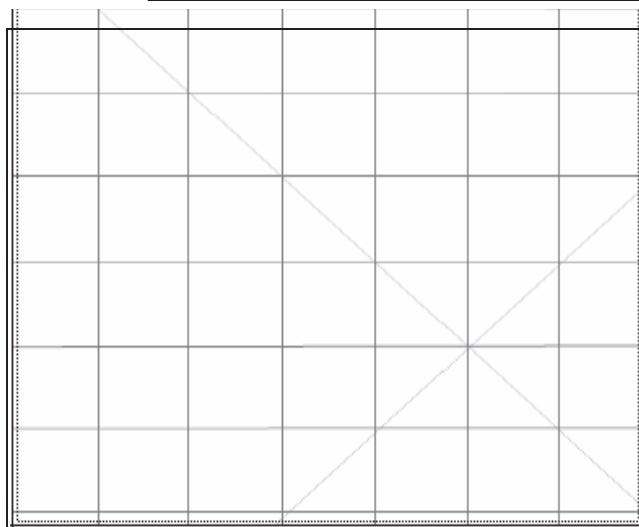
Other Site Info:

**Site plan**

## Site photographs



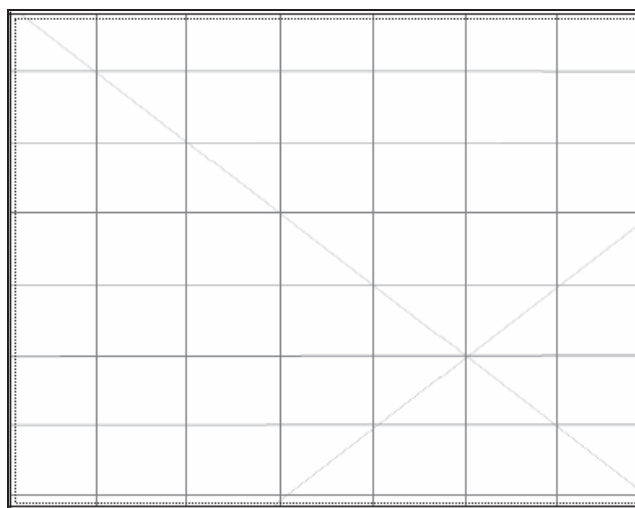
Description:



Description:



Description:



Description:

## Site restrictions

Do you want to  
Restrict this site?:

Restriction type:

Why is this site restricted?:

## Further information contact

Title

Surname

First name

Organisation:

Address:

Phone:

E-mail:

# Aboriginal Site Recording Form

AHIMS Registrar  
PO Box 1967, Hurstville 2220 NSW

AHIMS site ID: 45-5-5232

Date recorded: 10-05-2019

## Site Location Information

Site name: Elizabeth Precinct Isolated Find 01 (EPIF 01)

Easting: 293416

Northing: 6249892

Coordinates must be in GDA (MGA)

Horizontal Accuracy (m):

3

Zone: 56

Location method:

Non-Differential GPS

## Recorder Information

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

Title

Surname

First name

Ms.

Norfolk

Jennifer

Organisation:

Artefact

Address:

35 Saunder Street, Pyrmont 2009

Phone:

0466312832

E-mail:

jennifer.norfolk@artefact.net.au

## Site Context Information

Land Form  
Pattern:

Undulating Plain

Land Use:

Pastoral/Grazing

Land Form  
Unit:

Slope

Vegetation:

Cleared

Distance to  
Water (m):

110

Primary  
Report:

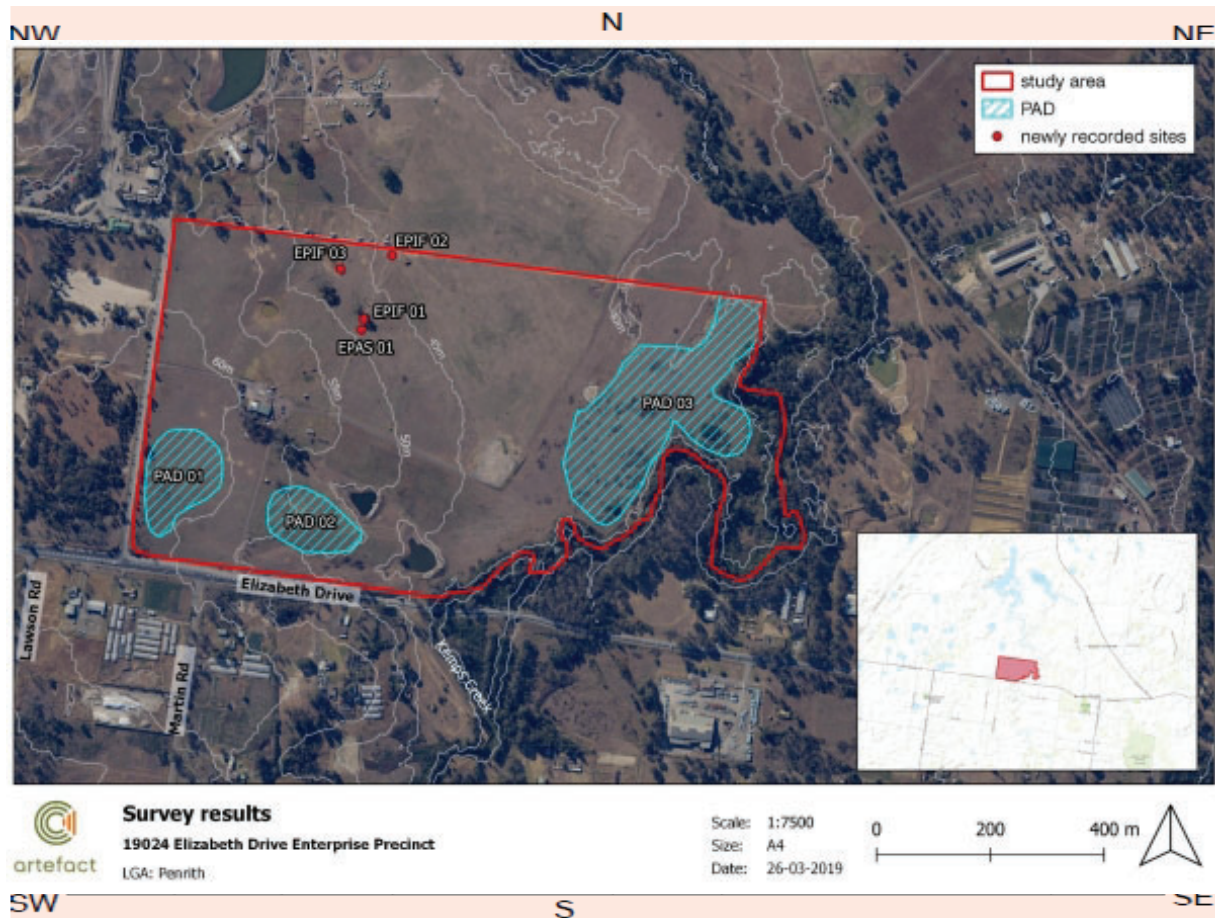
How to get  
to the site:

Within 1669 - 1723 Elizabeth Drive Badgerys Creek

Other site  
information:



## Site location map



### Site contents information

open/closed site:

Open

Site condition:

Erosion

#### Features:

1.

Artefact

Number of  
features

1

Length of  
feature(s)  
extent (m)

.5

Width of  
feature (s)  
extent (m)

.5

#### Scarred Trees

Scar Depth  
(cm)

Regrowth  
(cm)

Scar shape

Tree Species





Description:

one retouched piece of pink silcrete

#### Features:

2.

Number of  
features

Length of  
feature(s)  
extent (m)

Width of  
feature (s)  
extent (m)

#### Scarred Trees

Scar Depth  
(cm)

Regrowth  
(cm)

Scar shape

Tree Species





Description:

**Features:**

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
3. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Description:

## Scarred Trees

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

**Features:**

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
4. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Description:

## Scarred Trees

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

**Features:**

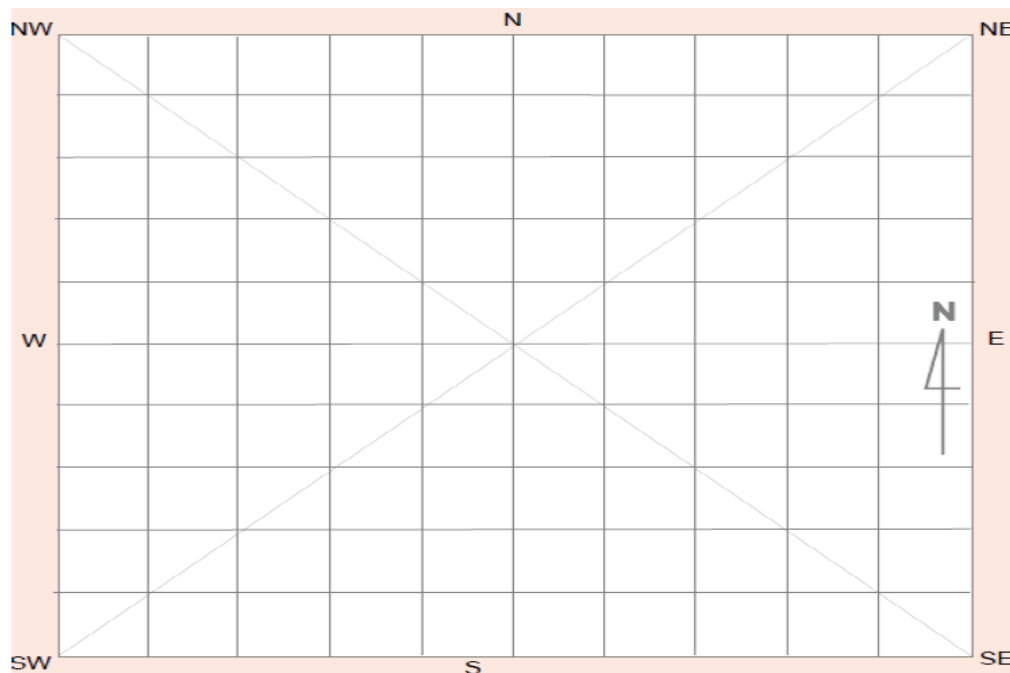
	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
5. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Description:

## Scarred Trees

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

Other Site Info:

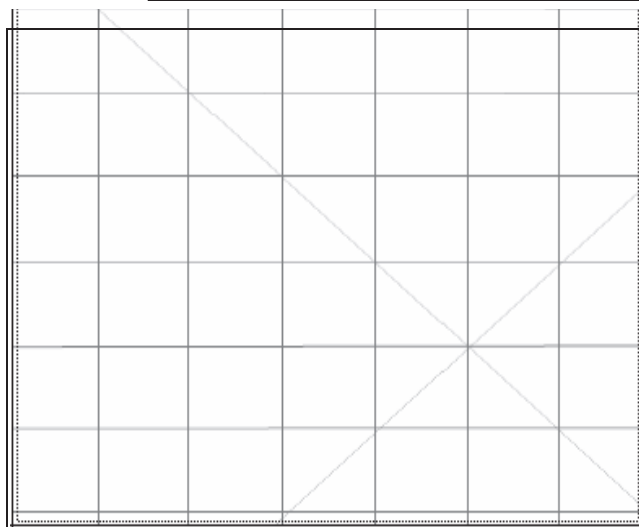
**Site plan**



## Site photographs



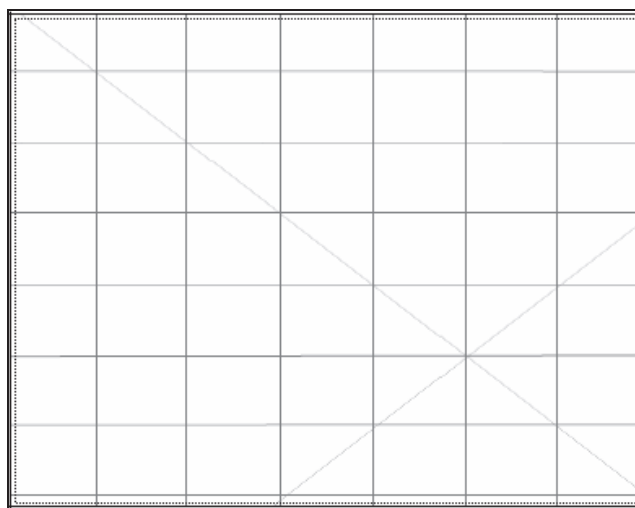
Description:



Description:



Description:



Description:

## Site restrictions

Do you want to  
Restrict this site?:

Restriction type:

Why is this site restricted?:

## Further information contact

Title

Surname

First name

Organisation:

Address:

Phone:

E-mail:

# Aboriginal Site Recording Form

AHIMS Registrar  
PO Box 1967, Hurstville 2220 NSW

AHIMS site ID: 45-5-5233

Date recorded: 10-05-2019

## Site Location Information

Site name: Elizabeth Precinct Artefact Scatter 01 (EPAS 01)

Easting: 293412

Northing: 6249873

Coordinates must be in GDA (MGA)

Horizontal Accuracy (m):

3

Zone: 56

Location method:

Non-Differential GPS

## Recorder Information

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

Title

Surname

First name

Ms.

Norfolk

Jennifer

Organisation:

Artefact

Address:

35 Saunder Street, Pyrmont 2009

Phone:

0466312832

E-mail:

jennifer.norfolk@artefact.net.au

## Site Context Information

Land Form  
Pattern:

Undulating Plain

Land Use:

Pastoral/Grazing

Land Form  
Unit:

Slope

Vegetation:

Cleared

Distance to  
Water (m):

116

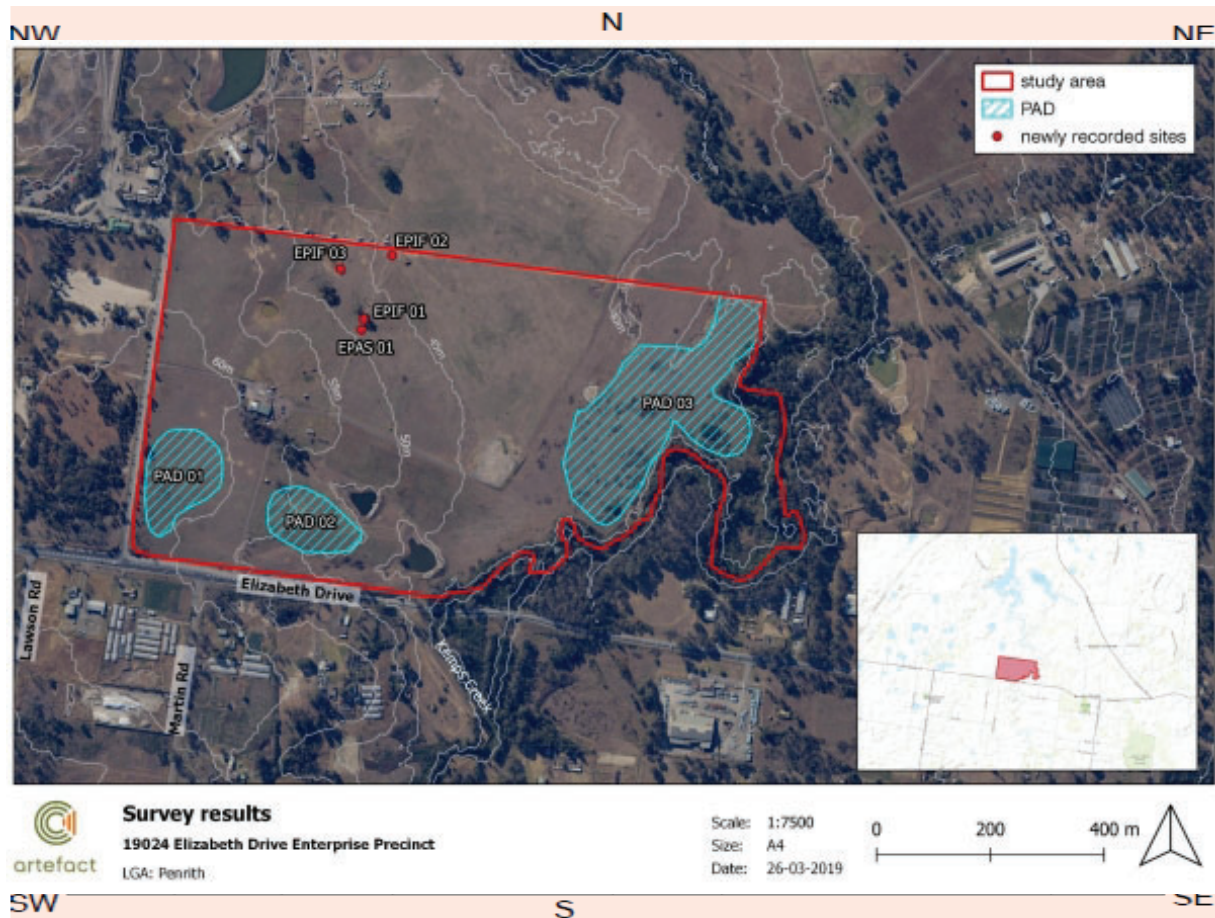
Primary  
Report:

How to get  
to the site:

Within 1669-1723 Elizabeth Drive Badgerys Creek along dirt track north  
west corner

Other site  
information:

## Site location map



### Site contents information

open/closed site:

Open

Site condition:

Erosion

#### Features:

1.

Artefact

Number of  
features

2

Length of  
feature(s)  
extent (m)

3

Width of  
feature (s)  
extent (m)

3

#### Scarred Trees

Scar Depth  
(cm)

Regrowth  
(cm)

Scar shape

Tree Species





Description:

two silcrete artefacts, single platform core and a complete flake

#### Features:

2.

Number of  
features

Length of  
feature(s)  
extent (m)

Width of  
feature (s)  
extent (m)

#### Scarred Trees

Scar Depth  
(cm)

Regrowth  
(cm)

Scar shape

Tree Species





Description:

**Features:**

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
3. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Description:

## Scarred Trees

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

**Features:**

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
4. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Description:

## Scarred Trees

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

**Features:**

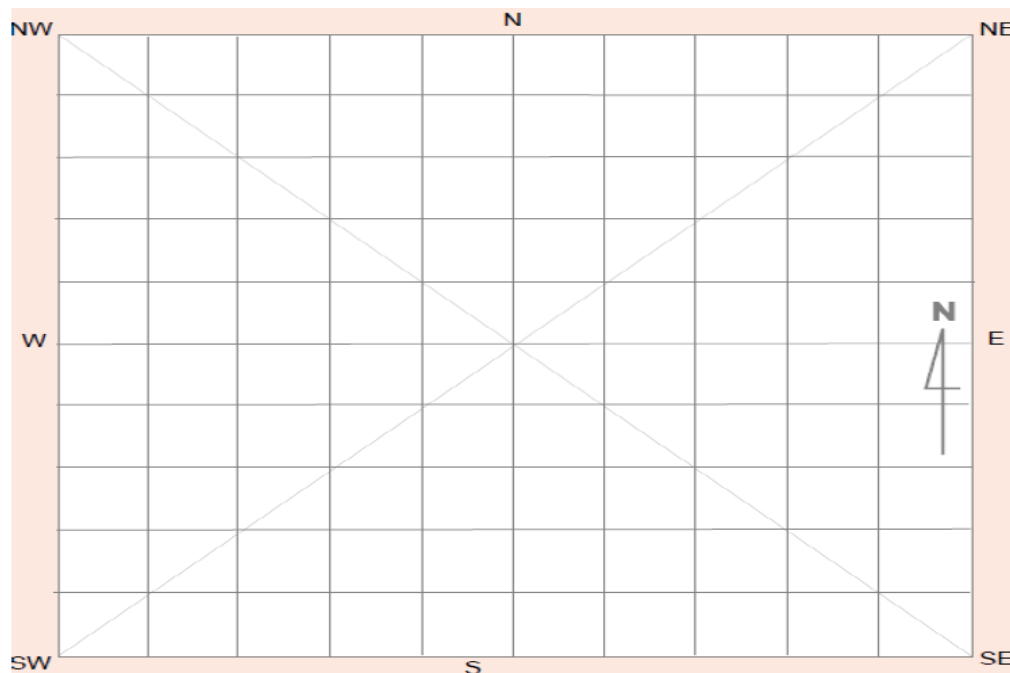
	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
5. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Description:

## Scarred Trees

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

Other Site Info:

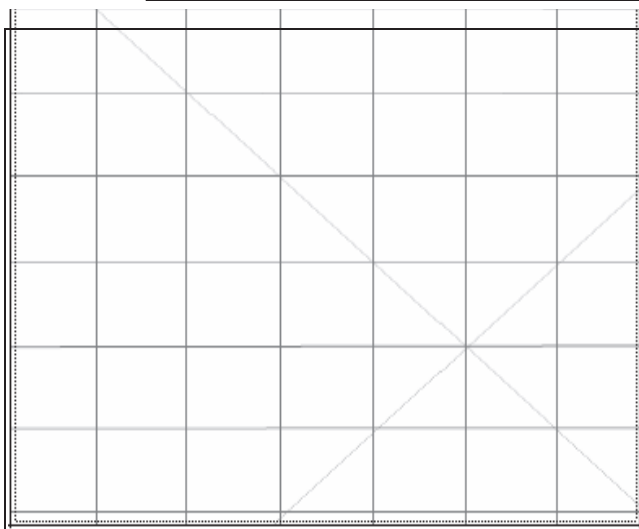
**Site plan**

## Site photographs



Description:

Artefacts

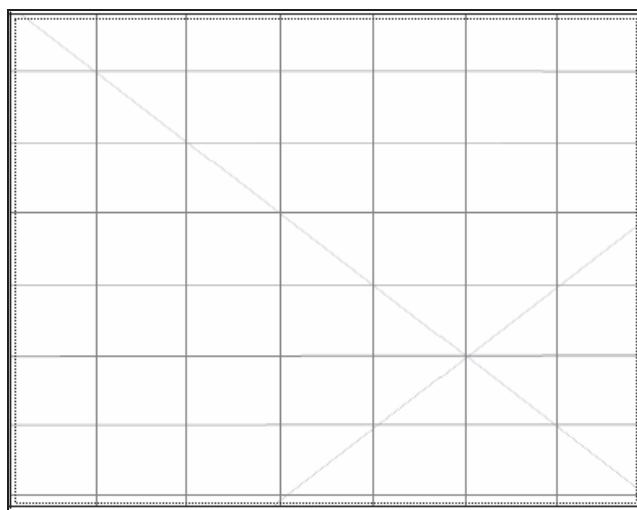


Description:



Description:

location on dirt track



Description:

## Site restrictions

Do you want to  
Restrict this site?:

☐

Restriction type:

Gender

☐

General

☐

Location

☐

Why is this site restricted?:

## Further information contact

Title

Surname

First name

Organisation:

Address:

Phone:

E-mail:



AHIMS site ID: 45-5-5231

Date recorded: 10-05-2019

## Site Location Information

Site name: Elizabeth Precinct Isolated Find 02 (EPIF 02)

Easting: 293466

Northing: 6250004

Coordinates must be in GDA (MGA)

Horizontal Accuracy (m):

3

Zone: 56

Location method:

Non-Differential GPS

## Recorder Information

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

Title

Surname

First name

Ms.

Norfolk

Jennifer

Organisation:

Artefact

Address:

35 Saunder Street, Pyrmont 2009

Phone:

0466312832

E-mail:

jennifer.norfolk@artefact.net.au

## Site Context Information

Land Form  
Pattern:

Undulating Plain

Land Use:

Pastoral/Grazing

Land Form  
Unit:

Plain

Vegetation:

Cleared

Distance to  
Water (m):

50

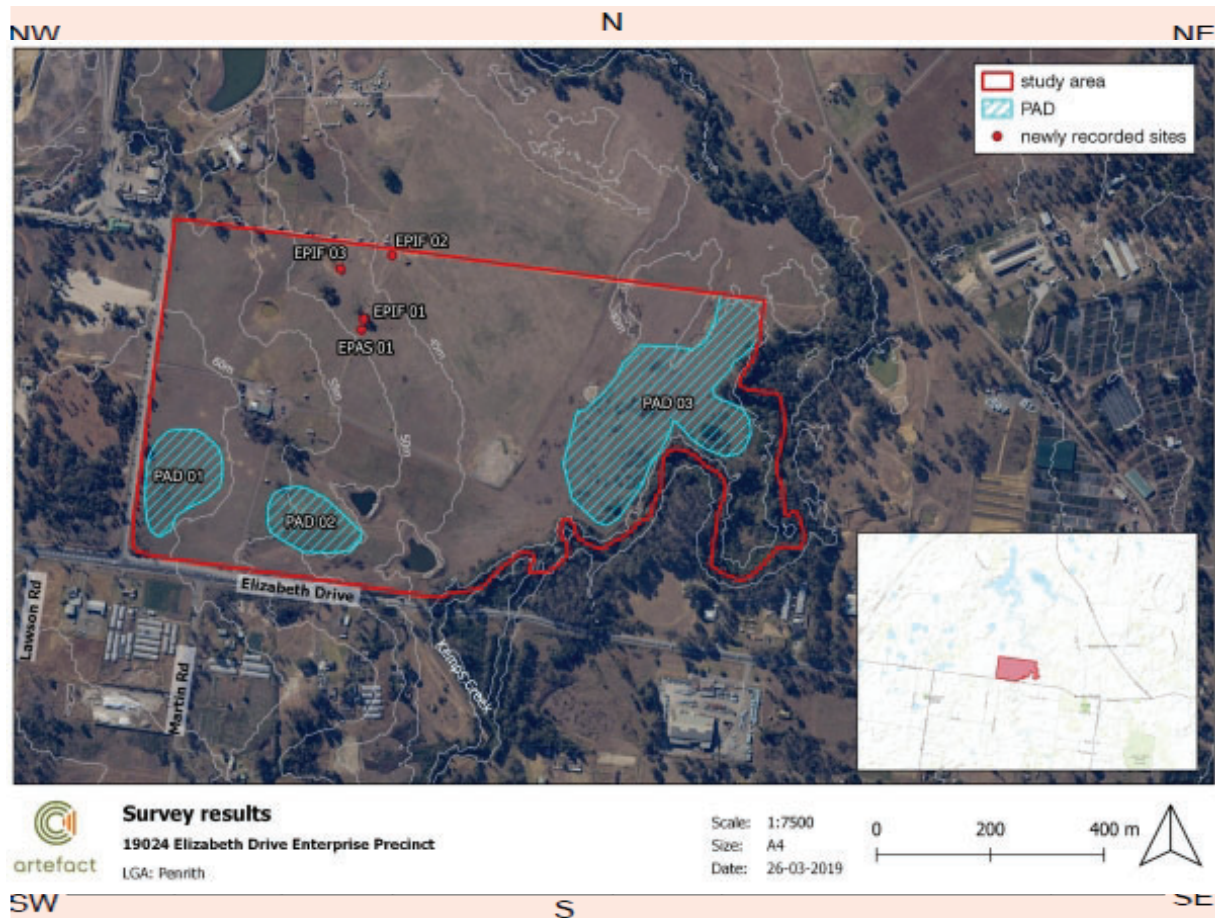
Primary  
Report:

How to get  
to the site:

located in the north west portion of 1669-1723 Elizabeth Drive  
Badgerys Creek

Other site  
information:

## Site location map



### Site contents information

open/closed site:

Open

Site condition:

Erosion

#### Features:

1.

Artefact

Number of  
features

1

Length of  
feature(s)  
extent (m)

.5

Width of  
feature (s)  
extent (m)

.5

#### Scarred Trees

Scar Depth  
(cm)

Regrowth  
(cm)

Scar shape

Tree Species





Description:

proximal flake fragment identified as a scraper

#### Features:

2.

Number of  
features

Length of  
feature(s)  
extent (m)

Width of  
feature (s)  
extent (m)

#### Scarred Trees

Scar Depth  
(cm)

Regrowth  
(cm)

Scar shape

Tree Species





Description:

**Features:**

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
3. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Description:

## Scarred Trees

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

**Features:**

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
4. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Description:

## Scarred Trees

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

**Features:**

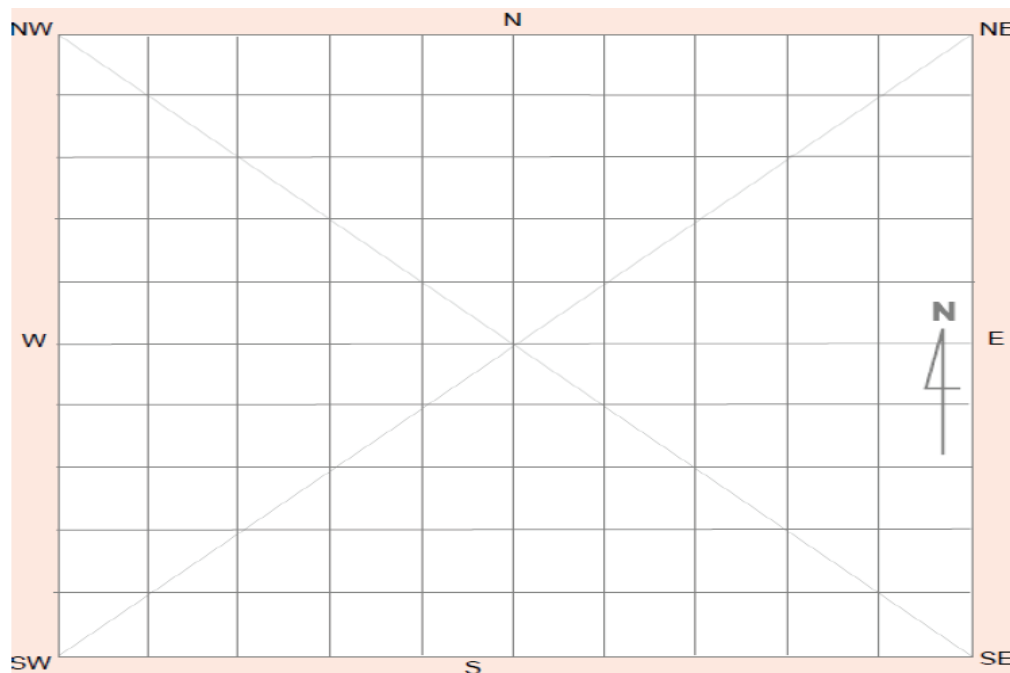
	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
5. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Description:

## Scarred Trees

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

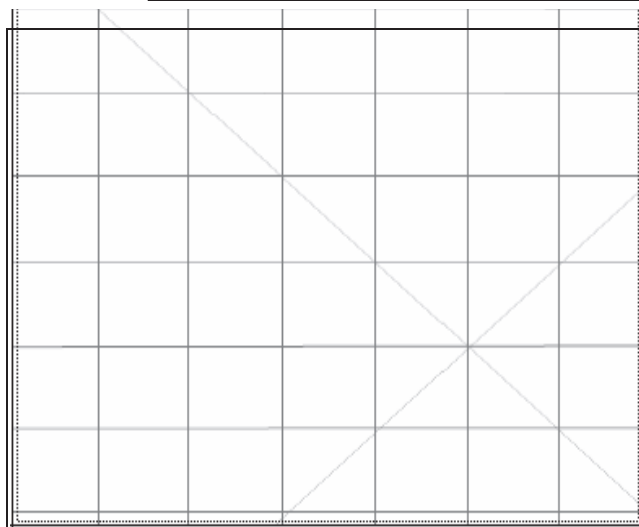
Other Site Info:

**Site plan**

## Site photographs



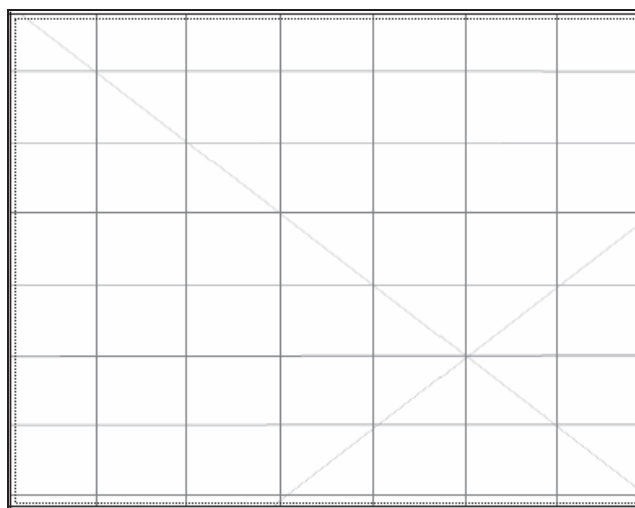
Description:



Description:



Description:



Description:

## Site restrictions

Do you want to  
Restrict this site?:

Restriction type:

Why is this site restricted?:

## Further information contact

Title

Surname

First name

Organisation:

Address:

Phone:

E-mail:



# Aboriginal Site Recording Form

AHIMS Registrar  
PO Box 1967, Hurstville 2220 NSW

AHIMS site ID: 45-5-5230

Date recorded: 10-05-2019

## Site Location Information

Site name: Elizabeth Precinct Isolated Find 03 (EPIF 03)

Easting: 293375

Northing: 6249980

Coordinates must be in GDA (MGA)

Horizontal Accuracy (m):

3

Zone: 56

Location method:

Non-Differential GPS

## Recorder Information

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

Title

Surname

First name

Ms.

Norfolk

Jennifer

Organisation:

Artefact

Address:

35 Saunder Street, Pyrmont 2009

Phone:

0466312832

E-mail:

jennifer.norfolk@artefact.net.au

## Site Context Information

Land Form  
Pattern:

Undulating Plain

Land Use:

Pastoral/Grazing

Land Form  
Unit:

Slope

Vegetation:

Cleared

Distance to  
Water (m):

0

Primary  
Report:

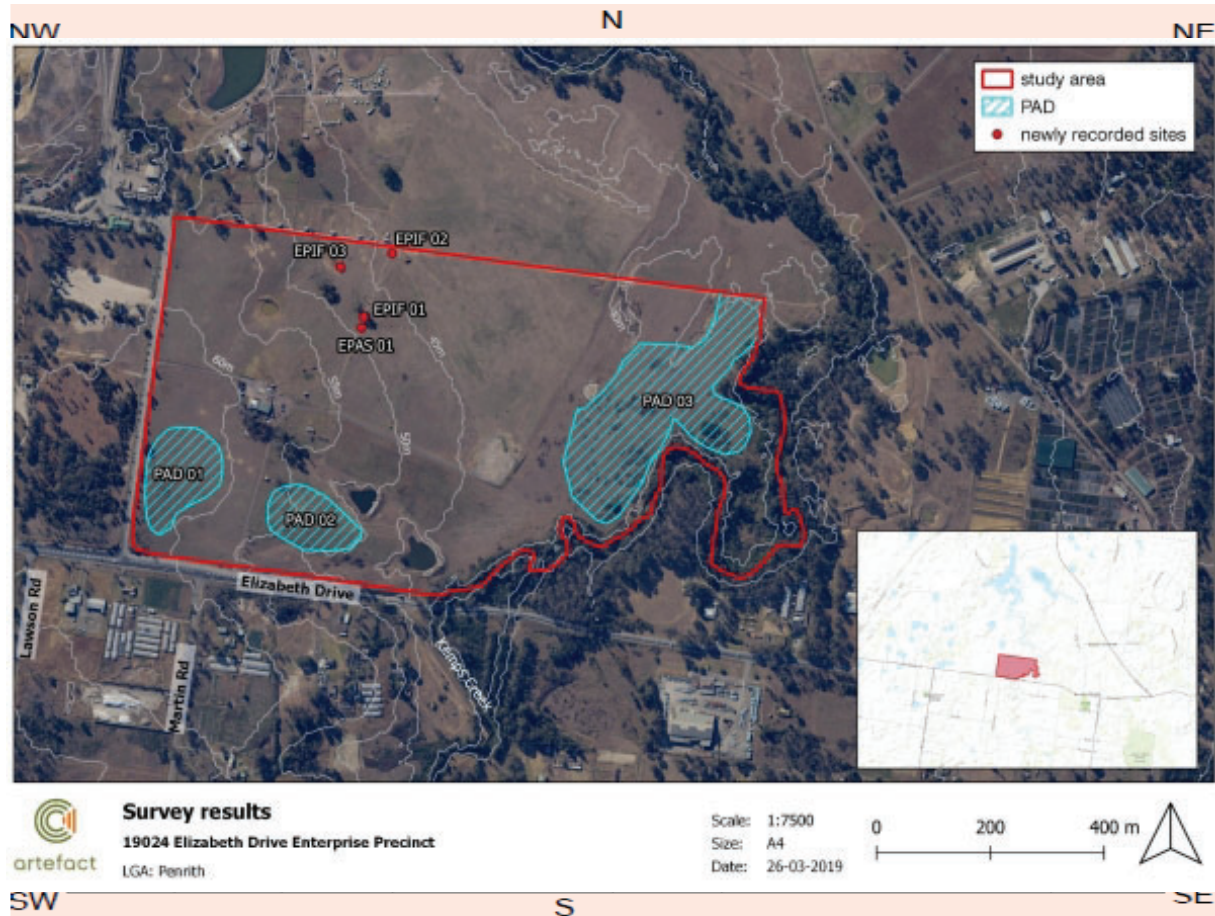
How to get  
to the site:

Within the north west portion of 1669-1723 Elizabeth Drive Badgerys  
Creek

Other site  
information:



## Site location map



### Site contents information

open/closed site:

Open

Site condition:

Disturbed

#### Features:

1.

Artefact

Number of  
features

1

Length of  
feature(s)  
extent (m)

.5

Width of  
feature (s)  
extent (m)

.5

#### Scarred Trees

Scar Depth  
(cm)

Regrowth  
(cm)

Scar shape

Tree Species





Description:

single platform core, red silcrete

#### Features:

2.

Number of  
features

Length of  
feature(s)  
extent (m)

Width of  
feature (s)  
extent (m)

#### Scarred Trees

Scar Depth  
(cm)

Regrowth  
(cm)

Scar shape

Tree Species





Description:

**Features:**

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
3. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Description:

## Scarred Trees

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

**Features:**

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
4. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Description:

## Scarred Trees

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

**Features:**

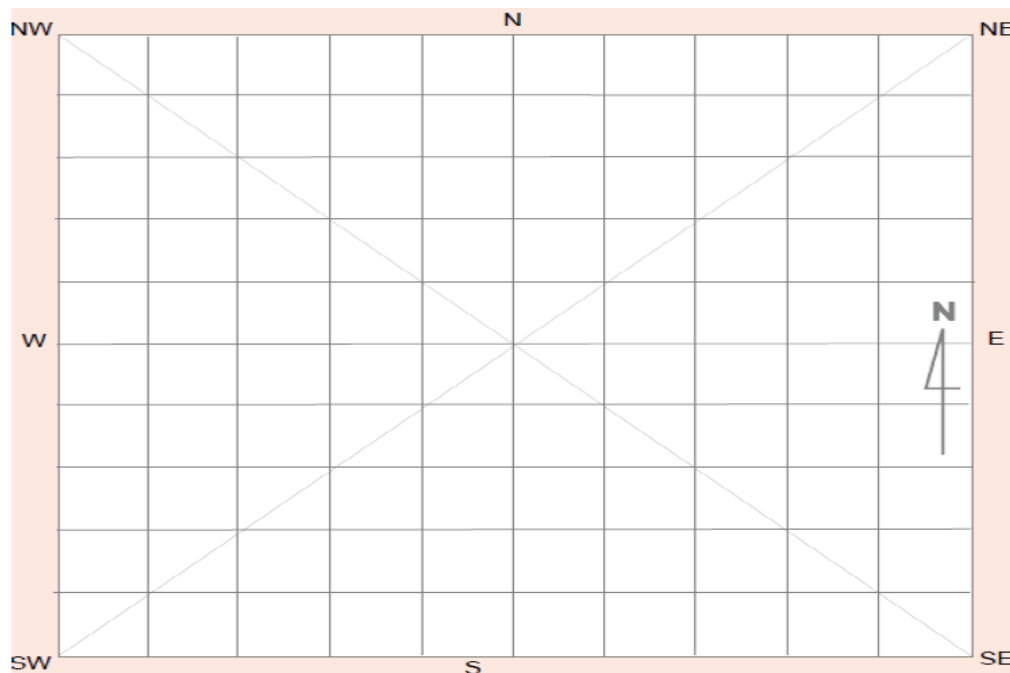
	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
5. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Description:

## Scarred Trees

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

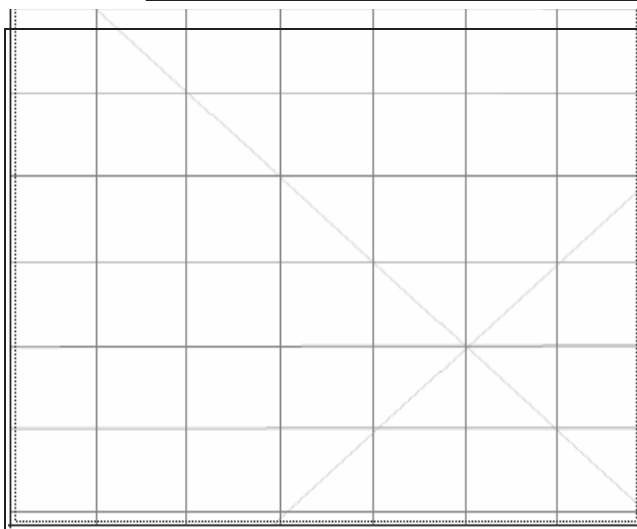
Other Site Info:

**Site plan**

## Site photographs



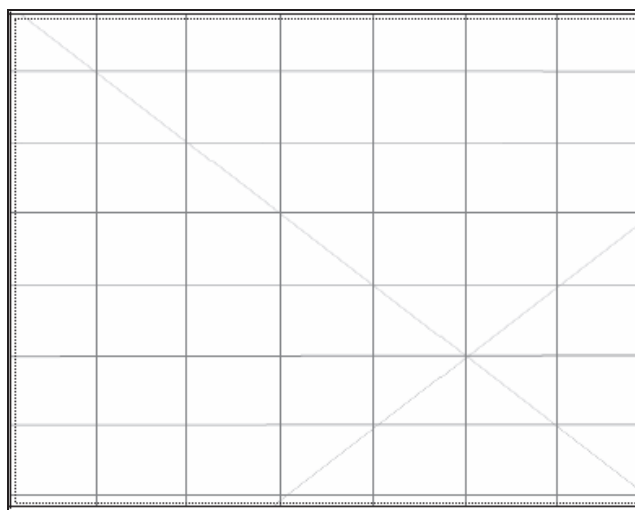
Description:



Description:



Description:



Description:

## Site restrictions

Do you want to  
Restrict this site?:

Restriction type:

Why is this site restricted?:

## Further information contact

Title

Surname

First name

Organisation:

Address:

Phone:

E-mail:



# Aboriginal Site Recording Form

AHIMS Registrar  
PO Box 1967, Hurstville 2220 NSW

AHIMS site ID: 45-5-5331

Date recorded: 01-06-2020

## Site Location Information

Site name: Elizabeth Precinct Isolated Find 04 (EP IF 04)

Easting: 293336

Northing: 6249535

Coordinates must be in GDA (MGA)

Horizontal Accuracy (m):

3

Zone: 56

Location method:

Non-Differential GPS

## Recorder Information

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

Title

Surname

First name

Ms.

Haast

Alyce

Organisation: Artefact Heritage

Address: Level 4, Building B, 35 Saunders Street, Pyrmont, 2009

Phone: 0412487963

E-mail: alyce.haast@artefact.net.au

## Site Context Information

Land Form  
Pattern:

Rolling Hills

Land Use:

Pastoral/Grazing

Land Form  
Unit:

Slope

Vegetation:

Cleared

Distance to  
Water (m):

60

Primary  
Report:

Artefact 2020, Elizabeth Enterprise Precinct, ATER

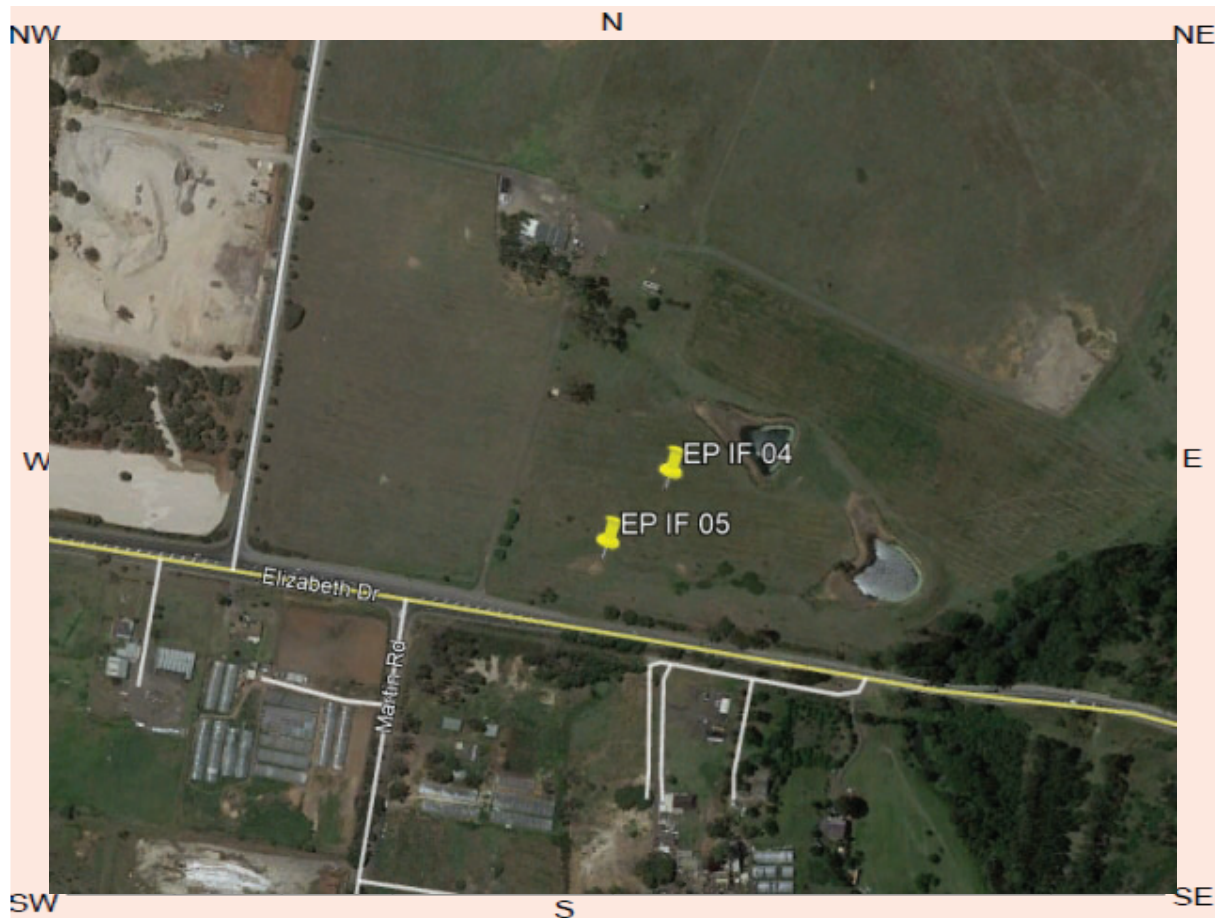
How to get  
to the site:

Site is accessible from driveway located on Elizabeth Drive Badgerys  
Creek

Other site  
information:



## Site location map



### Site contents information

open/closed site:

Open

Site condition:

Erosion

#### Features:

1.

Artefact

Number of  
features

1

Length of  
feature(s)  
extent (m)

0.5

Width of  
feature (s)  
extent (m)

0.5

#### Scarred Trees

Scar Depth  
(cm)

Regrowth  
(cm)

Scar shape

Tree Species





#### Description:

Elizabeth Precinct Isolated Find 04 is located within a sloped landform on a small exposure. The site contained one red silcrete proximal flake and measured 23 mm long x 15 mm wide x 7 mm depth

#### Features:

2.

Number of  
features

Length of  
feature(s)  
extent (m)

Width of  
feature (s)  
extent (m)

#### Scarred Trees

Scar Depth  
(cm)

Regrowth  
(cm)

Scar shape

Tree Species





#### Description:



**Features:**

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
3. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Description:

## Scarred Trees

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

**Features:**

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
4. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Description:

## Scarred Trees

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

**Features:**

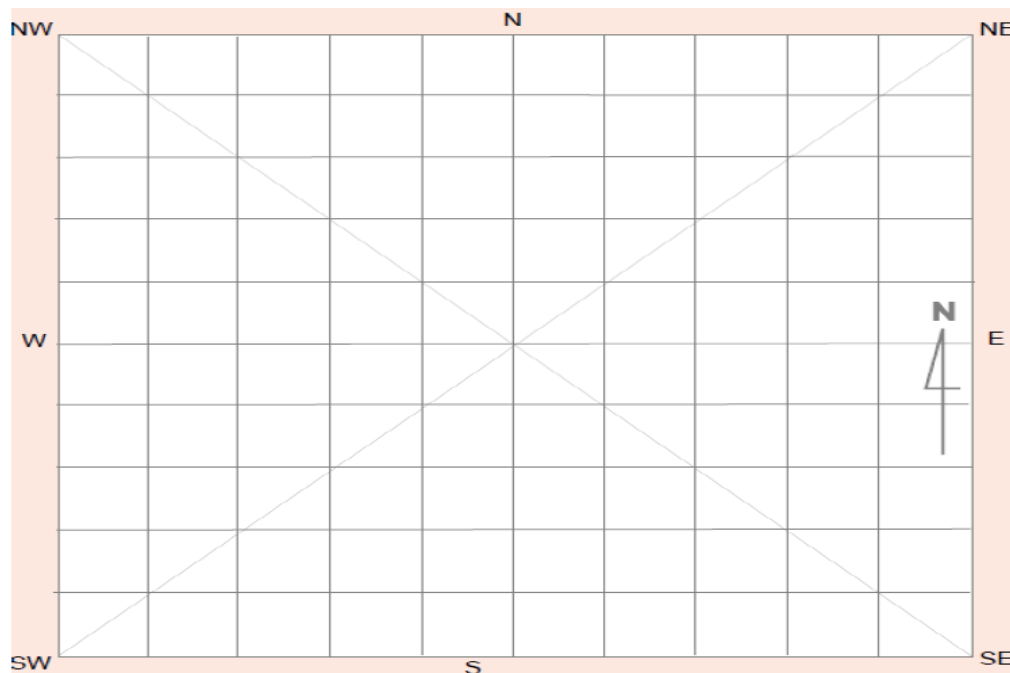
	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
5. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Description:

## Scarred Trees

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

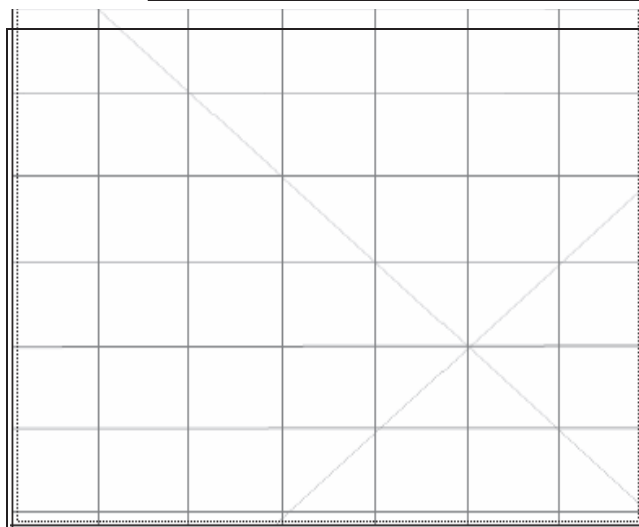
Other Site Info:

**Site plan**

## Site photographs



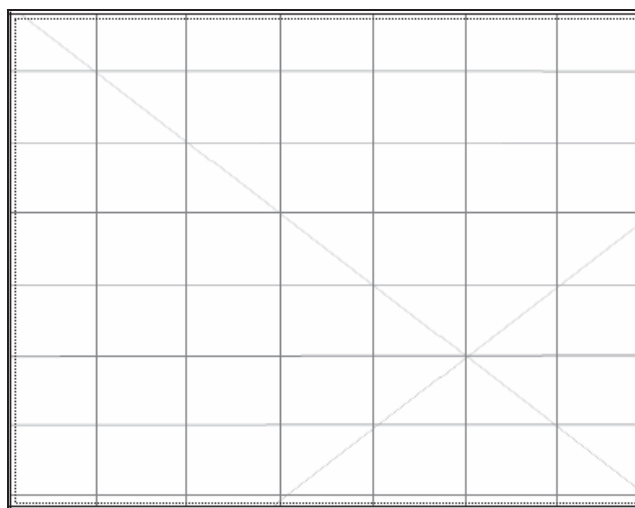
Description: Red silcrete proximal flake



Description:



Description: Site context of EP IF 04



Description:

## Site restrictions

Do you want to  
Restrict this site?:

☐

Restriction type:

Gender

☐

General

☐

Location

☐

Why is this site restricted?:

## Further information contact

Title

Surname

First name

Organisation:

Address:

Phone:

E-mail:

# Aboriginal Site Recording Form

AHIMS Registrar  
PO Box 1967, Hurstville 2220 NSW

AHIMS site ID: 45-5-5330

Date recorded: 01-06-2020

## Site Location Information

Site name: Elizabeth Precinct Isolated Find 05 (EP IF 05)

Easting: 293287

Northing: 6249478

Coordinates must be in GDA (MGA)

Horizontal Accuracy (m):

3

Zone: 56

Location method:

Non-Differential GPS

## Recorder Information

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

Title

Surname

First name

Ms.

Haast

Alyce

Organisation: Artefact Heritage

Address: Level 4, Building B, 35 Saunders Street, Pyrmont, 2009

Phone: 0412487963

E-mail:

alyce.haast@artefact.net.au

## Site Context Information

Land Form  
Pattern:

Rolling Hills

Land Use:

Pastoral/Grazing

Land Form  
Unit:

Slope

Vegetation:

Cleared

Distance to  
Water (m):

5

Primary  
Report:

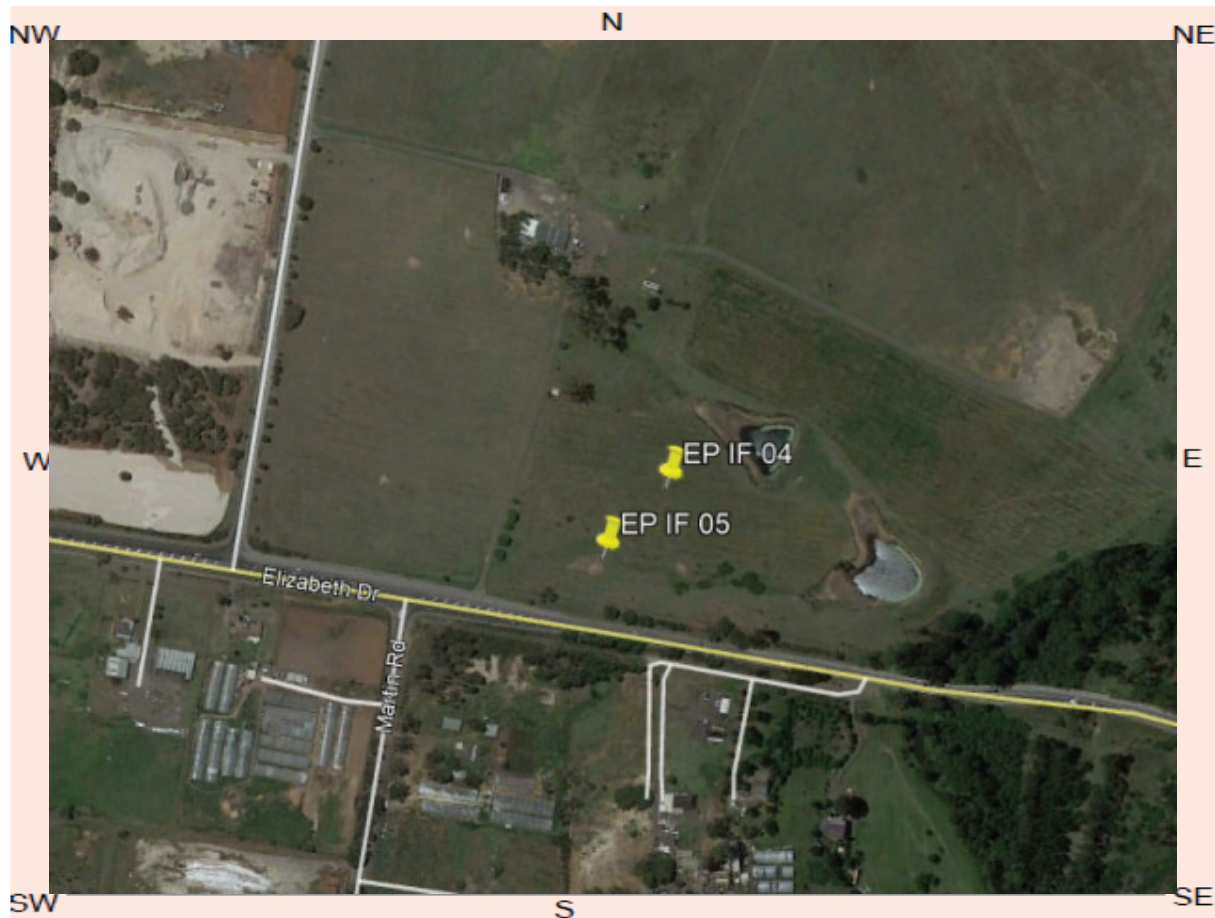
Artefact 2020, Elizabeth Enterprise Precinct: ATER

How to get  
to the site:

Access through drive off of Elizabeth Drive

Other site  
information:

## Site location map



### Site contents information

open/closed site:

Open

Site condition:

Erosion

#### Features:

1.

Artefact

Number of  
features

1

Length of  
feature(s)  
extent (m)

0.5

Width of  
feature (s)  
extent (m)

0.5

#### Scarred Trees

Scar Depth  
(cm)

Regrowth  
(cm)

Scar shape

Tree Species





#### Description:

Elizabeth Precinct Isolated Find 05 is located within a sloped landform associated with a drainage line. The site is also located with an exposure associated with erosion. The site contains an orange silcrete single medial flake fragment measuring 14 mm long x 76 mm wide x 5 mm deep.

#### Features:

2.

Number of  
features

Length of  
feature(s)  
extent (m)

Width of  
feature (s)  
extent (m)

#### Scarred Trees

Scar Depth  
(cm)

Regrowth  
(cm)

Scar shape

Tree Species





#### Description:

**Features:**

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
3. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Description:

## Scarred Trees

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

**Features:**

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
4. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Description:

## Scarred Trees

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

**Features:**

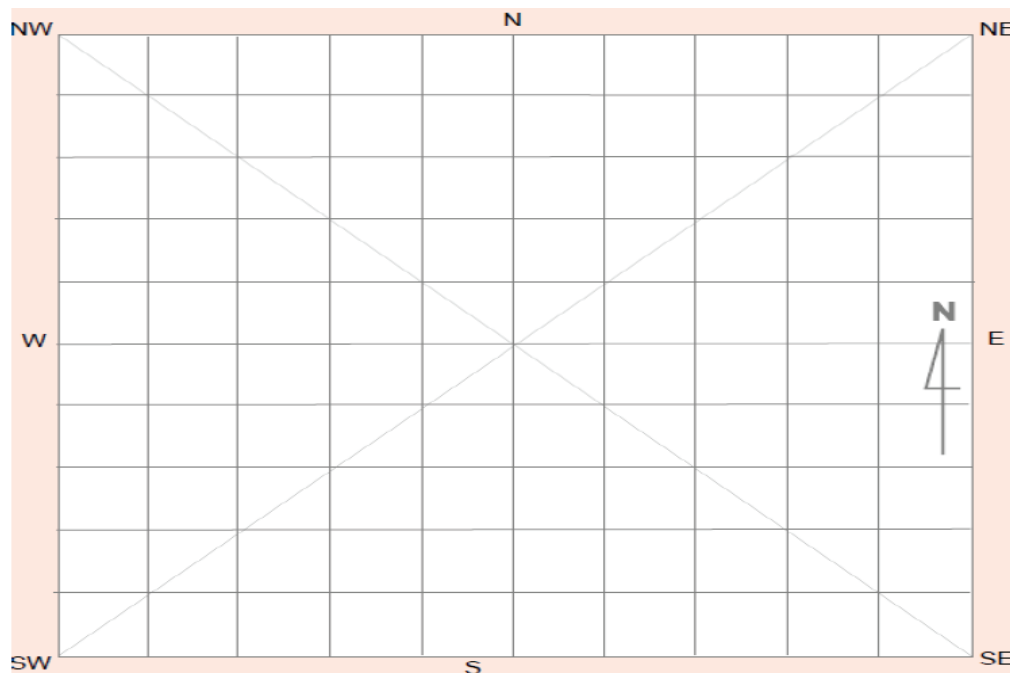
	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
5. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Description:

## Scarred Trees

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

Other Site Info:

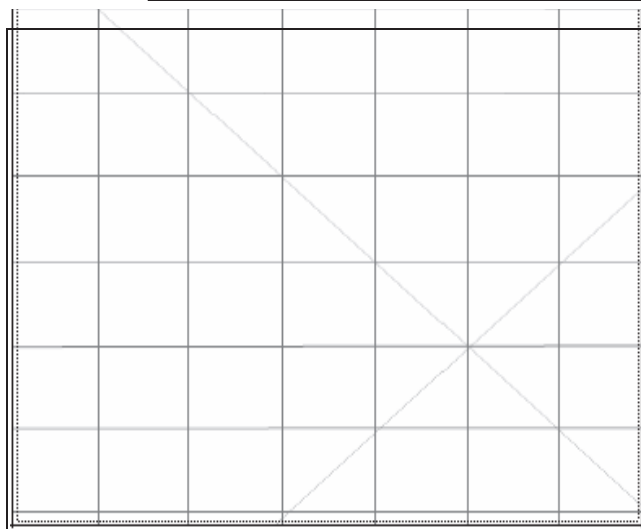
**Site plan**



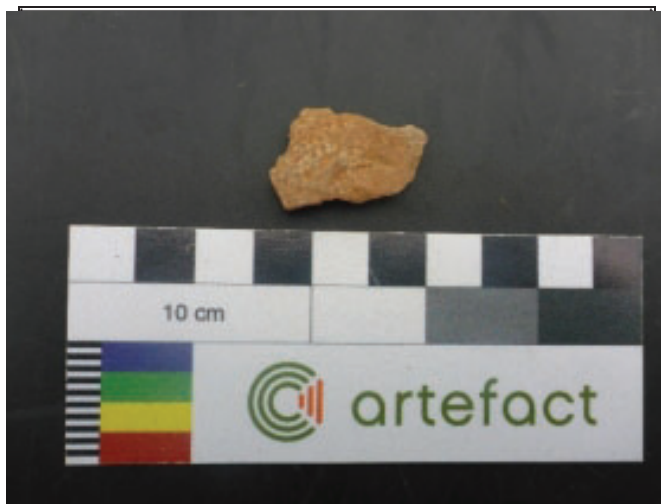
## Site photographs



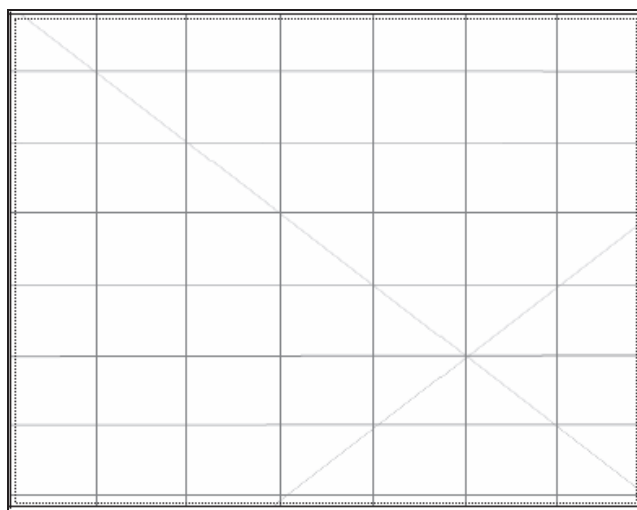
Description:



Description:



Description:



Description:

## Site restrictions

Do you want to  
Restrict this site?:

Restriction type:

Why is this site restricted?:

## Further information contact

Title

Surname

First name

Organisation:

Address:

Phone:

E-mail:

AHIMS site ID: 45-5-5234

Date recorded: 23-05-2019

## Site Location Information

Site name: Elizabeth Precinct PAD 03

Easting: 293924

Northing: 6249724

Coordinates must be in GDA (MGA)

Horizontal Accuracy (m):

3

Zone: 56

Location method:

Non-Differential GPS

## Recorder Information

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

Title

Surname

First name

Ms.

Norfolk

Jennifer

Organisation:

Artefact

Address:

35 Saunder Street, Pyrmont 2009

Phone:

0466312832

E-mail:

jennifer.norfolk@artefact.net.au

## Site Context Information

Land Form  
Pattern:

Undulating Plain

Land Use:

Pastoral/Grazing

Land Form  
Unit:

Terrace

Vegetation:

Cleared

Distance to  
Water (m):

100

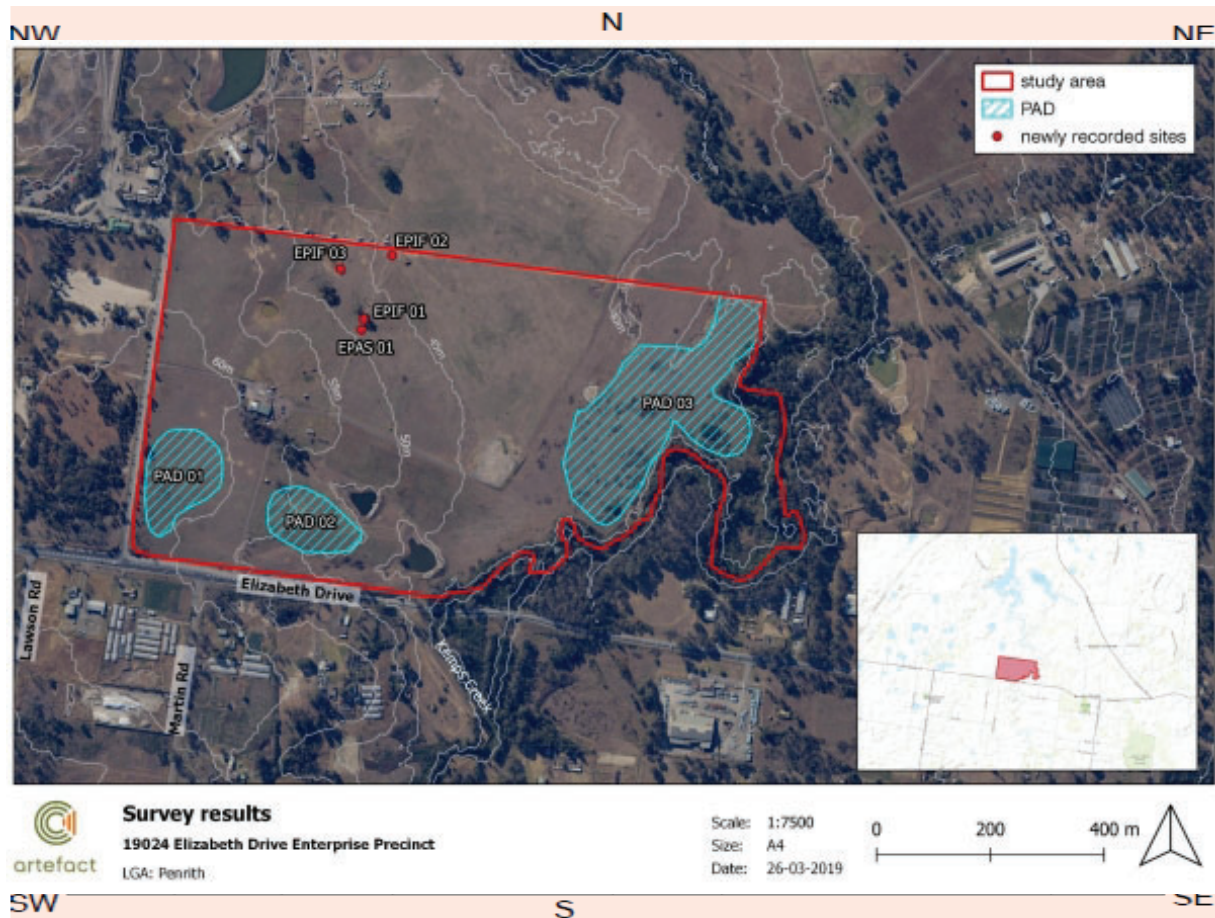
Primary  
Report:

How to get  
to the site:

1669-1723 Elizabeth Drive, Badgerys Creek

Other site  
information:

## Site location map



### Site contents information

open/closed site:

Open

Site condition:

Good

#### Features:

1.

Potential Archaeological Deposit

Number of  
features

Length of  
feature(s)  
extent (m)

465

Width of  
feature (s)  
extent (m)

250

#### Scarred Trees

Scar Depth  
(cm)

Regrowth  
(cm)

Scar shape

Tree Species

#### Description:

associated with the alluvial flats adjacent to South Creek a first order watercourse

#### Features:

2.

Number of  
features

Length of  
feature(s)  
extent (m)

Width of  
feature (s)  
extent (m)

#### Scarred Trees

Scar Depth  
(cm)

Regrowth  
(cm)

Scar shape

Tree Species

#### Description:

**Features:**

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
3. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Description:

## Scarred Trees

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

**Features:**

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
4. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Description:

## Scarred Trees

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

**Features:**

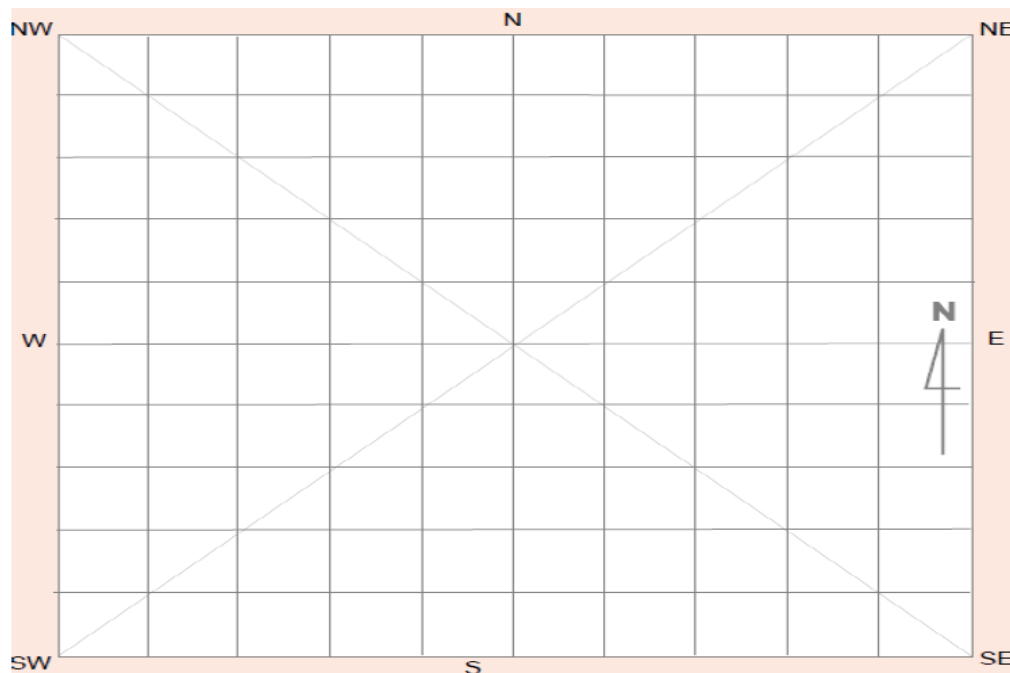
	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
5. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Description:

## Scarred Trees

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

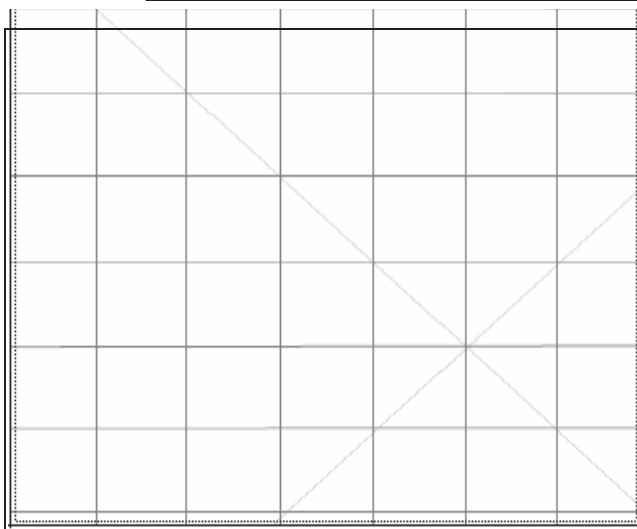
Other Site Info:

**Site plan**

## Site photographs



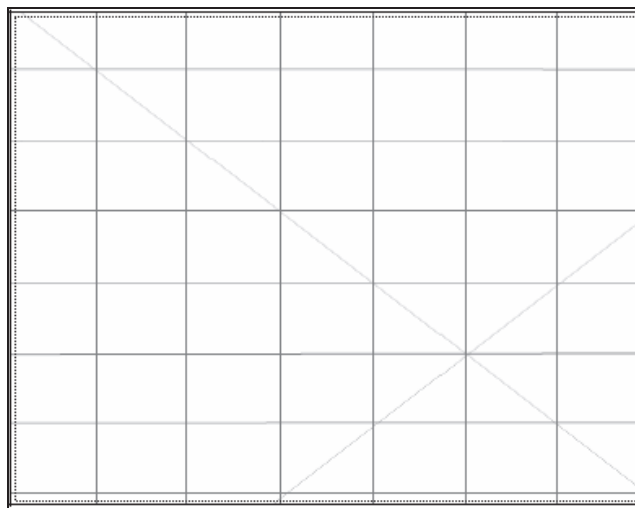
Description: east view



Description:



Description: south view



Description:

## Site restrictions

Do you want to  
Restrict this site?:

☐

Restriction type:

Gender

☐

General

☐

Location

☐

Why is this site restricted?:

## Further information contact

Title

Surname

First name

Organisation:

Address:

Phone:

E-mail:





artefact

Artefact Heritage

ABN 73 144 973 526

Level 4, Building B

35 Saunders Street

Pymont NSW 2009

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[www.artefact.net.au](http://www.artefact.net.au)