

13 July 2021

Cameron Sargent
Team Leader, Key Sites Assessments
Planning and Assessment | Department of Planning, Industry and Environment

Dear Cameron,

COVER LETTER - ABORIGINAL CULTURAL HERITAGE ASSESSMENT - TARONGA ZOO REPTILE AND AMPHIBIAN CONSERVATION CENTRE

1.1. BACKGROUND

The accompanying report presents the findings of an Aboriginal Cultural Heritage Assessment (ACHA) for the proposed development of a RACC at Taronga Zoo, 2A Bradleys Head Road, Mosman, NSW. This report has been prepared for the Taronga Conservation Society Australia (TCSA) (The Proponent). The proposed works include the demolition of existing facilities and construction of a multi-storey, multi-purpose building at the site.

This cover letter has been prepared to accompany the ACHA which is currently in draft form due to the ongoing consultation process.

1.2. CONSULTATION PROCESS

The ACHA commenced in February 2021 and the consultation process is ongoing. There are 12 Registered Aboriginal Parties (RAPs) involved in consultation. Table 1 below presents a summary of the consultation undertaken to date.

Table 1 – Consultation undertaken to date.

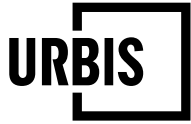
Stage	Date Commenced	Date Closed	Comment
1.1 – Native Title search	3/02/21	4/02/21	Native Title does not exist.
1.2 – Contact Government agencies	8/02/21	18/02/21	Response received by Department of Premier and Cabinet. 42 potential stakeholders identified.
1.3 – Invitation to register (including public notice)	22/02/21	10/03/21	12 groups/individuals registered for consultation. The list of registered

Stage	Date Commenced	Date Closed	Comment
			Parties is included in Section 6.1.2 of the accompanying ACHA.
2 & 3 – Presentation of information and gathering information.	13/05/21	10/06/21	Three written responses were received to the Stage 2 and 3 document, as well as verbal comments received during the site visits. These comments are included and addressed in Section 6.3 of the accompanying ACHA.
Site Visit	23/02/21 & 16/06/21		Initial site visit was undertaken with Dennis Foley in February 2021. Official Stage 2 and 3 site visit was undertaken with 5 RAPs in June 2021. Further details are included in Sections 6.4 & 7 of the accompanying ACHA.
4 – review of draft ACHA	14/07/2021	11/08/2021	The draft ACHA is currently with the RAPs for review. The report will be updated and finalised following the close of this consultation period, with RAP comments included.

1.3. SUMMARY

Comments received during the consultation process to date have been broadly supportive of the project and proposed works. Comments received from the representatives of the project RAPs indicate that the wider Taronga Zoo site has high cultural significance associated with the use of the site by Aboriginal people (Dennis Foley, Pers. Comm.). Comments have also highlighted the subject area as culturally significant as an area where resources previously would have been abundant including flora and fauna, and waterways. The subject area is suggested to have been used for *“hunting, gathering and ceremonial practices”* (KYWG, Pers. Comm.).

Urbis has included all comments received to date regarding cultural significance in the accompanying ACHA. Through consultation and assessment it has been determined that the most appropriate course of action for the acknowledgement of this cultural significance in the development is the retention of the sandstone boulder and outcrops, which are to be broken up and re-used as landscape elements on site. This is in accordance with comments received regarding the importance of keeping and re-using what is on Country. This has been included as a recommendation in the accompanying ACHA and is included in the design.



Due to the thorough nature of consultation to date, no further comments on cultural significance are anticipated. Therefore, despite the ongoing consultation, no significant changes to the accompanying report are considered to be likely and Urbis believe that the ACHA should be considered satisfactory for test of adequacy and assessment of the State Significant Development Application (SSDA). The ACHA will be updated to include any additional RAP comments following the close of Stage 4, and this will be provided to the Department as soon as it is finalised.

Please feel free to contact us should you have any questions.

Yours sincerely,

A handwritten signature in blue ink, appearing to read "M Walker", with a stylized flourish at the end.

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ABORIGINAL CULTURAL HERITAGE ASSESSMENT

Reptile and Amphibian Conservation
Centre, Taronga Zoo, Mosman, NSW.

Prepared for
TARONGA CONSERVATION SOCIETY AUSTRALIA
13 July 2021



URBIS STAFF RESPONSIBLE FOR THIS REPORT WERE:

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Project Code	P0031209
Report Number	001 – Draft for client review – Issued 2/07/21 002 – Stage 4 Draft ACHA –Issued 13/07/21

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EXECUTIVE SUMMARY

This report presents the findings of an Aboriginal Cultural Heritage Assessment (ACHA) for the proposed development of a Reptile and Amphibian Conservation Centre (RACC) at Taronga Zoo, 2A Bradleys Head Road, Mosman, NSW (hereafter referred to as 'the subject area'), (see Figure 4 and Figure 5).

Urbis has been commissioned by Taronga Conservation Society Australia (the Proponent) to produce an Aboriginal Cultural Heritage Assessment Report (ACHAR) in accordance with the Secretary's Environmental Assessment Requirements (SEARs) for the State Significant Development (SSD-17483577). This ACHAR will accompany an Environmental Impact Statement (EIS) for the proposed works.

This assessment has been prepared for the proposed redevelopment of Lot 22 DP843294 (partial), which is Crown Land managed by the TCSA (the Zoological Park Board). The proposed works will involve the establishment of the RACC.

The proposed RACC is located within the eastern portion of the Zoo grounds, within the area of the former seal theatre and penguin pond. The subject area is between two roads, with a steep gradient between the two owing to bulk excavation. The subject area is now largely vacant, with a small meerkat enclosure to the east.

The current Reptile World at the Taronga Zoo Sydney site has reached the end of its useful life and a new facility is required. The RACC project will be a world-class reptile and amphibian exhibition and animal care facility, achieving operational efficiencies and safety improvements.

This project will dramatically increase Taronga's capability to respond to wildlife emergencies, save endangered species, educate students and visitors, support wildlife volunteers and cement NSW as a global leader in wildlife conservation for future generations.

The RACC focuses on improving Taronga Zoo's contribution to conservation, science, education and enhancing guest experiences.

The proposal will align with the existing terracing of the site and will not involve substantial additional excavation. Refer to plans below (see Figure 1-Figure 3).

This assessment addresses the relevant requirements of the SEARs and has been carried out in accordance with the following guidelines:

- *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (Department of Environment, Climate Change and Water (DECCW), 2010) (the Consultation Guidelines).
- *Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW* (Office of Environment and Heritage 2011) (the Assessment Guidelines).
- *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales* (DECCW 2010) (the Code of Practice).

The ACHAR concluded that:

- No Aboriginal objects and/or places are registered on the Aboriginal Heritage Information Management System (AHIMS) within or in close proximity to the subject area.
- The subject area is within Zones 4 and 5 of the Taronga Zoo AMP prepared by GML in 2004. This is described as 'Areas which has previously been excavated down to bedrock, or culturally sterile soil profiles' and 'Areas heavily modified by European development'. Therefore, the site is identified as containing low-medium potential in areas zoned 4 and nil potential in areas zoned 5.
- Geotechnical investigation identified no natural soils within boreholes across the subject area.
- The subject area has experienced high to extreme levels of disturbance associated with the clearance of vegetation, the construction and demolition of Zoo facilities, including the seal theatre and the penguin pond, road and path construction, and the bulk excavation of the site and introduction of fill to create the terraced profile. Existing facilities including the meerkat enclosure will also have resulted in considerable disturbance.
- The archaeological potential of the subject area is therefore determined to be generally **low**.

- The sandstone boulder within the subject area has been identified as modified by Europeans with the presence of drill marks and metal poles through the boulder potentially from fencing. Sandy deposit has been sighted below the boulder. There is therefore **low-moderate potential** in this area.
- The subject area is upon the Bradley's Head Peninsula which is identified by RAPs as culturally significant, with generally high cultural significance identified for the whole school site. No specific cultural heritage values have been identified as associated with the subject area. **TBC FOLLOWING CLOSE OF STAGE 4.**

The proposed development can proceed in accordance with the following recommendations:

Recommendation 1 – Monitoring of the sandstone boulder removal and potential test excavation.

Due to the identified presence of sandy deposit below the sandstone boulder present within the subject area there is low-moderate Aboriginal archaeological potential in this area. The removal of the boulder should therefore be subject to archaeological monitoring and, should the sandy deposit be identified as extensive, test excavation should occur in this area to identify the presence/absence of artefactual deposit. Should intact deposit be found, an Archaeological Research Design and Excavation methodology should be prepared to inform the archaeological excavation.

Recommendation 2- Aboriginal Cultural Heritage Induction

It is recommended that induction materials be prepared in consultation with the Registered Aboriginal Parties (RAPs) for inclusion in the construction management plan and site inductions for any contractors working at the subject area. The induction material should include an overview of the types of sites and artefacts to be aware of (i.e. stone tools, concentrations of shells that could be middens and rock engravings and grinding grooves), under the NPW Act, and the requirements of an 'archaeological chance find procedure' (refer below). This should be prepared for the project and included in any site management plans.

The induction material may be paper based, included in any hard copy site management documents; or electronic, such as "PowerPoint" for any face to face site inductions.

Recommendation 3 – Archaeological Chance Find Procedure

Although considered highly unlikely, should any Aboriginal objects, archaeological deposits be uncovered during any site works, a Chance Find Procedure must be implemented. The following steps must be carried out:

1. All works stop in the vicinity of the find. The find must not be moved 'out of the way' without assessment.
2. The archaeologist and Aboriginal representative on site examine the find, provides a preliminary assessment of significance, records the item for the AHIMS register and decides on appropriate management. Such management may require further consultation with the Aboriginal Cultural Heritage Regulation Branch of the Department of Premier and Cabinet (DPC), preparation of a research design and archaeological investigation/salvage methodology and decision on temporary care and control.
3. Depending on the significance of the find, reassessment of the archaeological potential of the subject area may be required, and further archaeological investigation undertaken.
4. Reporting may need to be prepared regarding the find and approved management strategies. Any such documentation should be appended to this ACHAR and revised accordingly.
5. Works in the vicinity of the find can only recommence when all management measure all implemented, and the find is removed from the activity area. Should the find be an unmovable item such as an engraving or grinding groove located on a sandstone surface, further management measures will need to be introduced to avoid harm to the find.

Recommendation 3 – Human Remains Procedure

In the unlikely event that human remains are uncovered during any site works, the following must be undertaken:

1. All works within the vicinity of the find immediately stop.
2. Site supervisor or other nominated manager must notify the NSW Police and DPC.
3. The find must be assessed by the NSW Police, and may include the assistance of a qualified forensic anthropologist.

4. Management recommendations are to be formulated by the Police, DPC and site representatives.
5. Works are not to recommence until the find has been appropriately managed.

Recommendation 4 – RAP consultation

A copy of the final ACHAR must be provided to all project RAPs. Ongoing consultation with RAPs should occur as the project progresses. This will ensure ongoing communication about the project and key milestones and ensure that the consultation process does not lapse, particularly with regard to consultation should the Chance Find Procedure be enacted.

1. INTRODUCTION

1.1. BACKGROUND

This report presents the findings of an Aboriginal Cultural Heritage Assessment (ACHA) for the proposed development of a RACC at Taronga Zoo, 2A Bradleys Head Road, Mosman, NSW (hereafter referred to as 'the subject area'), (see Figure 4 and Figure 5).

Urbis has been commissioned by Taronga Conservation Society Australia (the Proponent) to produce an Aboriginal Cultural Heritage Assessment Report (ACHAR) in accordance with the Secretary's Environmental Assessment Requirements (SEARs) for the State Significant Development (SSD-17483577). This ACHAR will accompany an Environmental Impact Statement (EIS) for the proposed works.

1.2. LOCATION AND DESCRIPTION OF THE SUBJECT AREA

Taronga Zoo is located at Bradleys Head Road, Mosman and is situated in the Mosman Local Government area (LGA). The site is bounded by Bradleys Head Road to the east, Athol Wharf Road and Sydney Harbour to the south, Little Sirius Cove to the west and Whiting Beach Road to the north.

Taronga Zoo is legally described as Lot 22 on DP843294 and is Crown Land, managed by the Taronga Conservation Society Australia (TSCA).

1.3. PROPOSED ACTIVITY

The proposed RACC is located within the eastern portion of the Zoo grounds, within the area of the former seal theatre and penguin pond. The subject area is between two roads, with a steep gradient between the two owing to bulk excavation. The subject area is now largely vacant, with a small meerkat enclosure to the east.

The current Reptile World at the Taronga Zoo Sydney site has reached the end of its useful life and a new facility is required. The RACC project will be a world-class reptile and amphibian exhibition and animal care facility, achieving operational efficiencies and safety improvements.

This project will dramatically increase Taronga's capability to respond to wildlife emergencies, save endangered species, educate students and visitors, support wildlife volunteers and cement NSW as a global leader in wildlife conservation for future generations.

The RACC focuses on improving Taronga Zoo's contribution to conservation, science, education and enhancing guest experiences. The project is complex and deals with a number of key design strategies including:

- State of the art and world class animal exhibits, focused on animal welfare.
- Best practice keeper facilities to allow for continued care and conservation of animals.
- Guest and staff safety.
- Provide an enhanced educational guest experience and promoting a call to action.
- Concealing and nestling the building within the existing site context, including topographical and natural features.
- Careful consideration of Aboriginal and European heritage and culture.
- Consideration of both views to and from the site.
- Incorporate interpretation of country through landscape elements.

The RACC is separated over 3 levels as follows:

- Ground Floor is accessible from the bottom [southern] footpath/roadway only. This level is for staff use and access only.
- Level 1 contains the majority of the animal exhibits and is accessible by Guests from the at-grade pedestrian footpath to the east of the site. Guests enter the RACC at this level.

- Level 2 contains four animal exhibits, and is accessed via a ramp from the level below, running along the southern facade. Guests exit the building at this level onto the top [northern] footpath/roadway.

The proposed project area covers 2118.53. The plans below show the proposed works at the subject area.

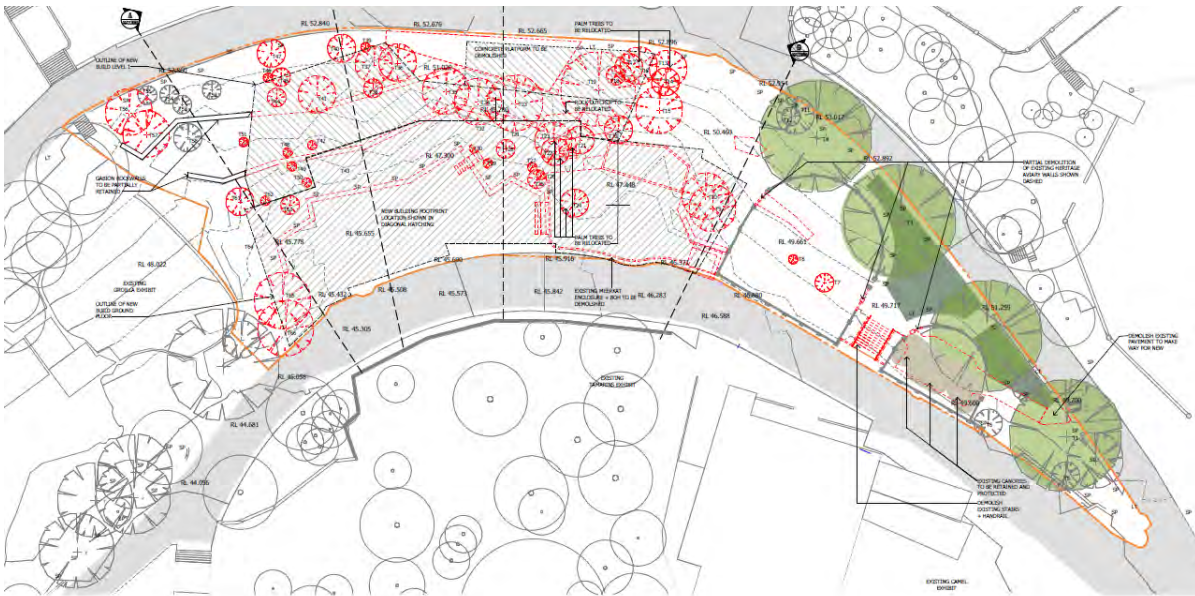


Figure 1 – Schematic Design – Site plan, existing/demolition. Orange polygon indicated extent of works, with red lines indicating demolition. Diagonal hatching indicated new building footprint.

Source: DWP Architects, June 2021

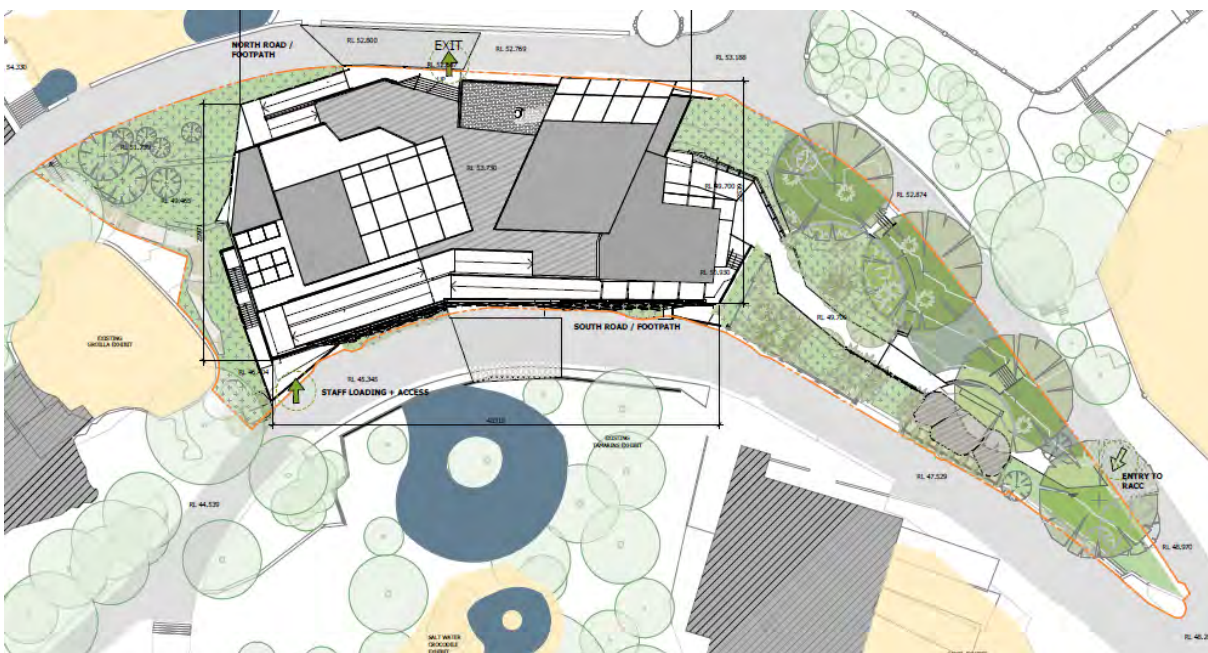


Figure 2 – Site plan, showing new building and footpath providing access to the new building.

Source: DWP Architects, June 2021

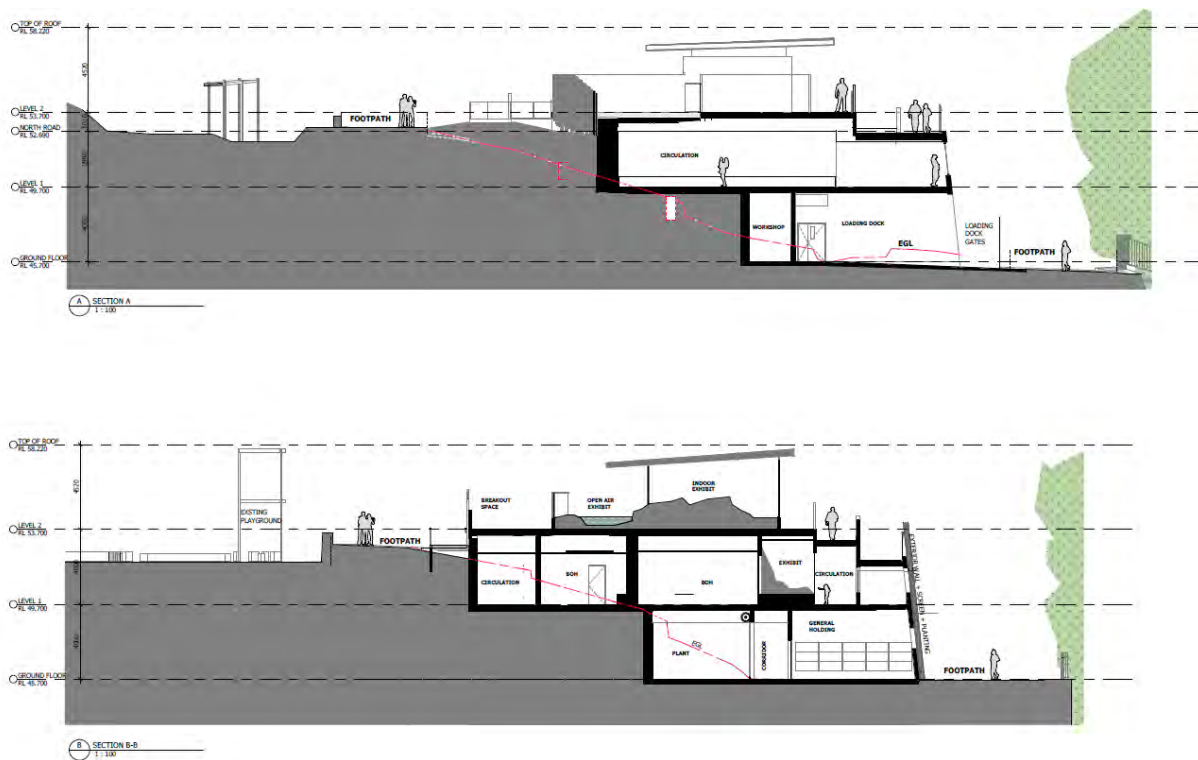


Figure 3 – Sections, showing extent of excavation, red line indicates existing site topography.
Source: DWP Architects, 2021.

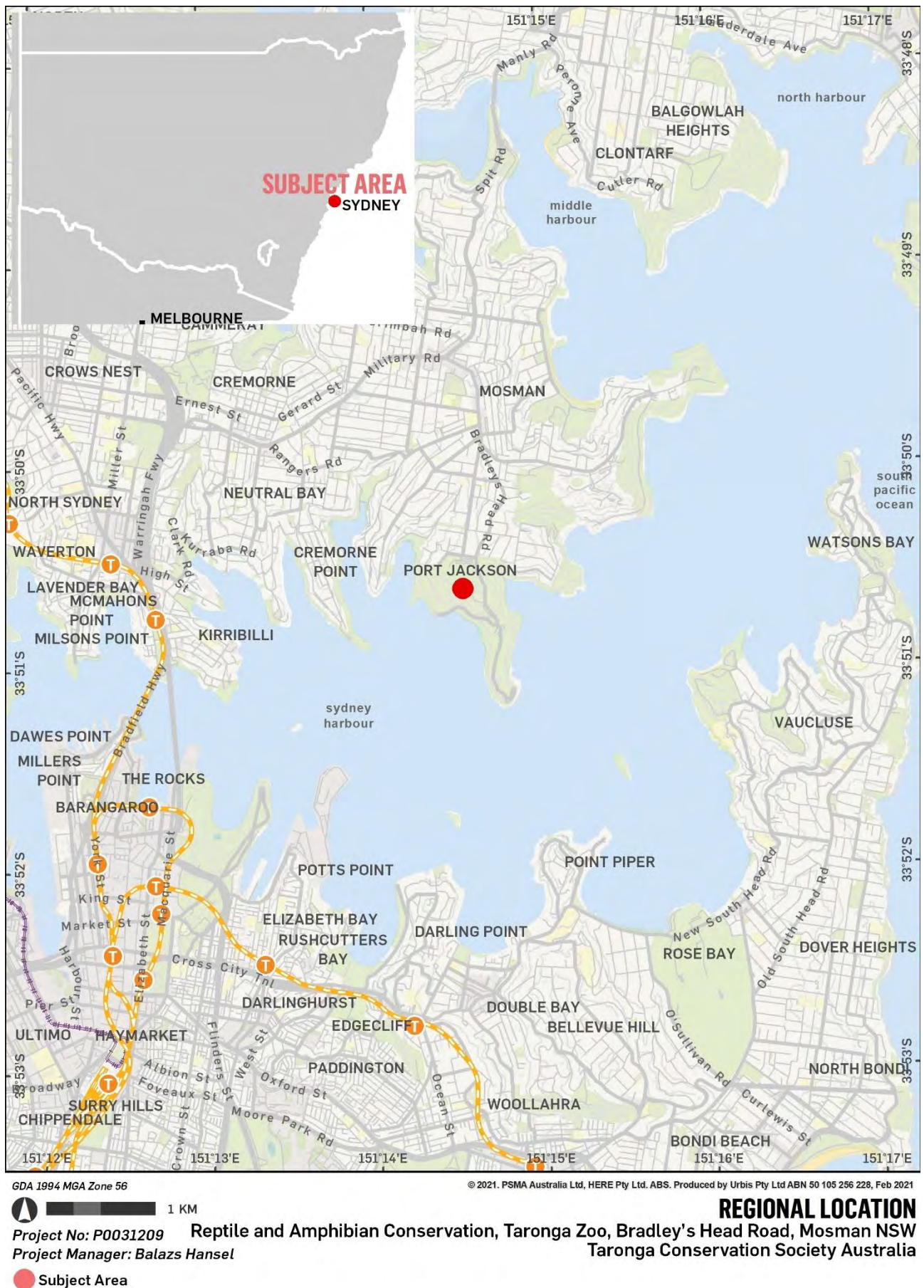


Figure 4 – Regional location



GDA 1994 MGA Zone 56

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Project No: P0031209 **Reptile and Amphibian Conservation, Taronga Zoo, Bradley's Head Road, Mosman NSW**
Project Manager: Balazs Hansel

SUBJECT AREA

Taronga Conservation Society Australia

Subject Area — **Contours**

Figure 5 – Location of the Subject Area

1.4. STATUTORY CONTROLS

Management of Aboriginal objects is under the statutory control of the *National Parks and Wildlife Act 1974 (NPW Act)* further regulation of the process is outlined in the *National Parks and Wildlife Regulations 2009 (NPW Reg)*. This ACHA has been carried out in accordance with Part 6 of the NPW Act and Part 8A of the NPW Reg. The ACHAR was prepared the statutory guidelines under the NPW Act including:

- *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (Department of Environment, Climate Change and Water (DECCW), 2010) (the Consultation Guidelines).
- *Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW* (Office of Environment and Heritage 2011) (the Assessment Guidelines).
- *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales* (DECCW 2010).
- *The Australia ICOMOS Charter for Places of Cultural Significance, The Burra Charter, 2013* (Burra Charter).

The ACHA is required to inform the Environmental Impact Statement (EIS) which will be submitted to support a State Significance Development Application (SSDA). The ACHA will also address the relevant requirements of the Department of Planning's Secretary's Environmental Assessment Requirements (SEARs).

1.4.1. Response to SEARs

The ACHAR is guided by the Secretary's Environmental Assessment Requirements (SEARs) for the State Significant Development (SSD-17483577). Identifies the relevant SEARs and the corresponding sections of this ACHAR.

Table 1 – SEARs and relevant report sections

SEARs Item	Report Section
4 Heritage The EIS must include: · an Aboriginal Cultural Heritage Assessment Report in accordance with relevant guidelines, identifying, describing and assessing any impacts for any Aboriginal cultural heritage values on the site, including archaeology.	This whole report addresses this requirement.

1.4.2. Mosman Local Environmental Plan (LEP) 2012

Clause 5.10 of Part 5 of the Mosman Local Environmental Plan (LEP) outlines the heritage conservation principles for archaeological sites and relics for the Mosman Local Government Area (LGA), including:

(2) Requirement for consent

Development consent is required for any of the following

- demolishing or moving any of the following or altering the exterior of any of the following (including, in the case of a building, making changes to its detail, fabric, finish or appearance)—*
 - a heritage item,*
 - an Aboriginal object,*
 - a building, work, relic or tree within a heritage conservation area,*
- altering a heritage item that is a building by making structural changes to its interior or by making changes to anything inside the item that is specified in Schedule 5 in relation to the item,*

- (c) *disturbing or excavating an archaeological site while knowing, or having reasonable cause to suspect, that the disturbance or excavation will or is likely to result in a relic being discovered, exposed, moved, damaged or destroyed,*
- (d) *disturbing or excavating an Aboriginal place of heritage significance,*
- (e) *erecting a building on land—*
 - a) *on which a heritage item is located or that is within a heritage conservation area, or*
 - b) *on which an Aboriginal object is located or that is within an Aboriginal place of heritage significance,*
- (f) *subdividing land—*
 - a) *on which a heritage item is located or that is within a heritage conservation area, or*
 - b) *on which an Aboriginal object is located or that is within an Aboriginal place of heritage significance.*

.(7) Archaeological sites

The consent authority must, before granting consent under this clause to the carrying out of development on an archaeological site (other than land listed on the State Heritage Register or to which an interim heritage order under the Heritage Act 1977 applies)

- (a) *notify the Heritage Council of its intention to grant consent, and*
- (b) *take into consideration any response received from the Heritage Council within 28 days after the notice is sent.*

(8) Aboriginal places of heritage significance

The consent authority must, before granting consent under this clause to the carrying out of development in an Aboriginal place of heritage significance—

- (a) *consider the effect of the proposed development on the heritage significance of the place and any Aboriginal object known or reasonably likely to be located at the place by means of an adequate investigation and assessment (which may involve consideration of a heritage impact statement), and*
- (b) *notify the local Aboriginal communities, in writing or in such other manner as may be appropriate, about the application and take into consideration any response received within 28 days after the notice is sent.*

This assessment seeks to respond to provision (8) of the Mosman LEP 2012, by considering the effect of the proposed development on any known or reasonably likely to occur areas of Aboriginal cultural significance or Aboriginal objects. This assessment has involved notification to local Aboriginal communities of the proposed development.

1.4.3. Mosman Development Control Plan (DCP) 2012

A search of the Mosman Development Control Plan (DCP) 2012 was undertaken on 18th February 2021. The relevant DCP for Taronga Zoo is the *Open Space and Infrastructure Development Control Plan*. Heritage is addressed under Section 4.3 of this DCP.

No specific provisions regarding Aboriginal heritage were identified. The DCP refers to the controls identified in the Mosman LEP 2012.

1.5. OBJECTIVES

The objectives of this ACHA are to:

- Investigate the presence, or absence, of Aboriginal objects and/or places within and in close proximity to the subject area, and whether those objects and/or places would be impacted by the proposed development.
- Investigate the presence, or absence, of any landscape features that may have the potential to contain Aboriginal objects and/or sites and whether those objects and/or sites would be impacted by the proposed development.
- Document the nature, extent and significance of any Aboriginal objects and/or place and sites that may located within the subject area.

- Document consultation with the Registered Aboriginal Parties (RAPs) with the aim to identify any spiritual, traditional, historical or contemporary associations or attachments to the subject area and any Aboriginal objects and/or places that might be identified within the subject area.
- Provide management strategies for any identified Aboriginal objects and/or places or cultural heritage values.
- Provide recommendations for the implementation of the identified management strategies.
- Prepare a final Aboriginal Cultural Heritage Assessment Report (ACHAR) to be included in the Environmental Impact statement (EIS) for the proposed redevelopment.

1.6. AUTHORSHIP

This ACHA has been prepared by Meggan Walker (Consultant Archaeologist) with review and quality control undertaken by Balazs Hansel (Associate Director Archaeology).

2. ARCHAEOLOGICAL CONTEXT

2.1. ABORIGINAL ARCHAEOLOGICAL BACKGROUND

This section comprises the summary of the archaeological background research for Aboriginal cultural heritage resources. This includes the search of the AHIMS, previous archaeological investigations pertinent to the subject area and landscape analysis.

2.2. ABORIGINAL HERITAGE INFORMATION MANAGEMENT SYSTEM (AHIMS)

The AHIMS database comprises previously registered Aboriginal archaeological objects and cultural heritage places in NSW and it is managed by the Aboriginal Cultural Heritage Branch of the Department of Premier and Cabinet (DPC) under Section 90Q of the *National Parks and Wildlife Act 1974* (NPW Act).

Aboriginal objects are the official terminology in AHIMS for Aboriginal archaeological sites. From this point in the assessment forward the terms of 'Aboriginal sites', 'AHIMS sites' or 'sites' will be used to describe the nature and spatial distribution of archaeological resources in relation to the subject area.

The search of the AHIMS was carried out on 9th February 2021 (Client Service ID: 566678) for an area of approximately 2 km². The search found no registered Aboriginal sites within or adjacent to the subject area.

The search results are shown on Figure 7, discussed in Table 2 and Figure 6, and included as Appendix A.

AHIMS Search Results (CSID: 566678)

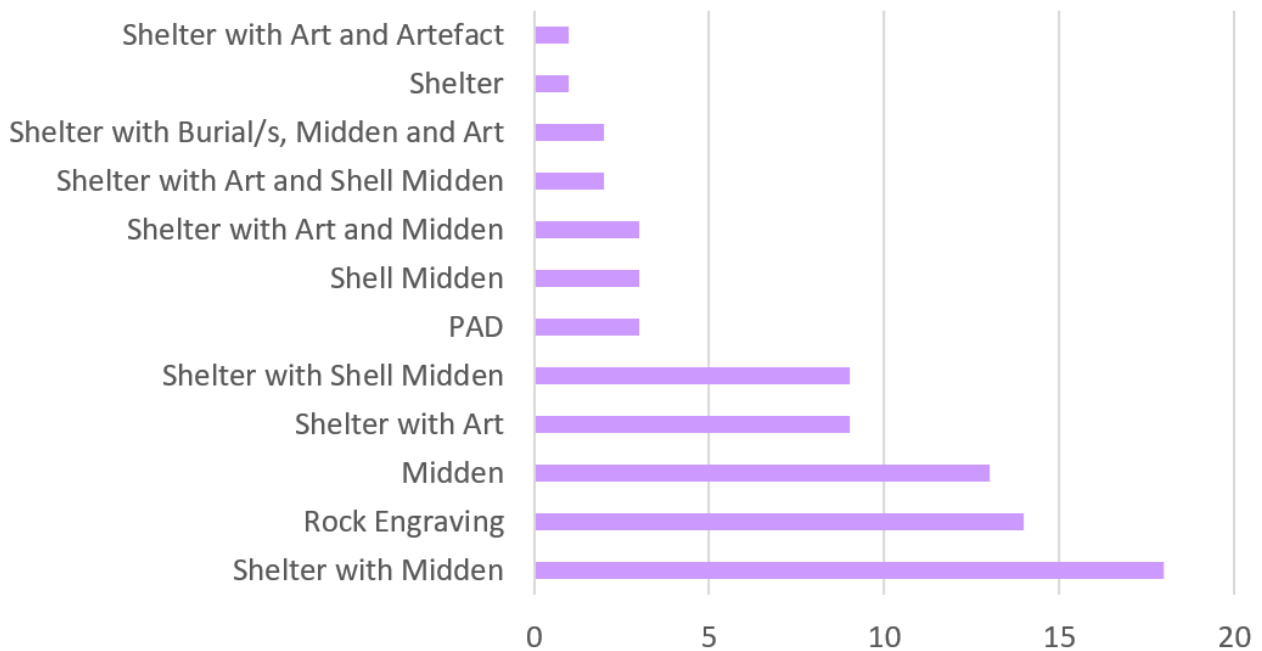


Figure 6 – AHIMS search results (Client Service ID: 566678)

Table 2 – AHIMS search results (Client Service ID: 566678)

Site Type	Number	Percentage
Shelter with Midden	18	23.1%
Rock Engraving	14	17.9%
Midden	13	16.7%
Shelter with Art	9	11.5%
Shelter with Shell Midden	9	11.5%
PAD	3	3.8%
Shell Midden	3	3.8%
Shelter with Art and Midden	3	3.8%
Shelter with Art and Shell Midden	2	2.6%
Shelter with Burial/s, Midden and Art	2	2.6%
Shelter	1	1.3%
Shelter with Art and Artefact	1	1.3%
Total	78	100%

In the above table, 'shell midden' describes a shell deposits which contains exclusively shell as identified on the AHIMS site card, whereas 'midden' described a deposit containing both culturally modified lithics and shell.

The types of sites identified reflect the landscape and environment of the search area. 'Open' context sites are sites which occur in open space, whereas 'closed' context sites are those which occur within rock shelters. Closed context sites dominated the search results, comprising 58% (n=45). This is due to the general topography and geology of the surrounding area, where sandstone outcrops are common. As a result, sites which are dependent on sandstone (including shelter sites and rock engravings) comprised 79% (n=62) of search results. These site types are typically indicative of habitation and long term occupation across the area. Shelters are sites of habitation, and typically correlate with additional archaeological resources including art, shell middens and artefacts.

40% (n=31) of registered sites within the search area contained art. Art within shelters, typically in the form of pigment applied to the shelter wall, comprised 55% (n=17) of art sites, while rock engravings in open contexts comprised 45% (n=14) of art sites. Pigment art is typically associated with areas of habitation and sustenance, while engravings are typically located on flat sandstone outcrops, on ridges where vistas occur. All art sites are indicative of prolonged use and occupation/habitation within an area, and typically are of high cultural significance due to their rarity, caused by post-settlement destruction and natural erosion and wear processes. Art sites within shelters often correlate with middens, artefacts and burials.

Middens are sites containing deposits of edible shell indicative of habitation, sustenance and resource extraction. Middens are typically located within shelters and/or in close proximity to watercourses where edible shells were extracted and subsequently processed. A midden may represent a single meal or an accumulation over a long period of time involving many different activities. 'Shell middens' are delineated in this report as containing exclusively shell, whereas 'Middens' refers to sites which also contain culturally modified lithics (stone artefacts).

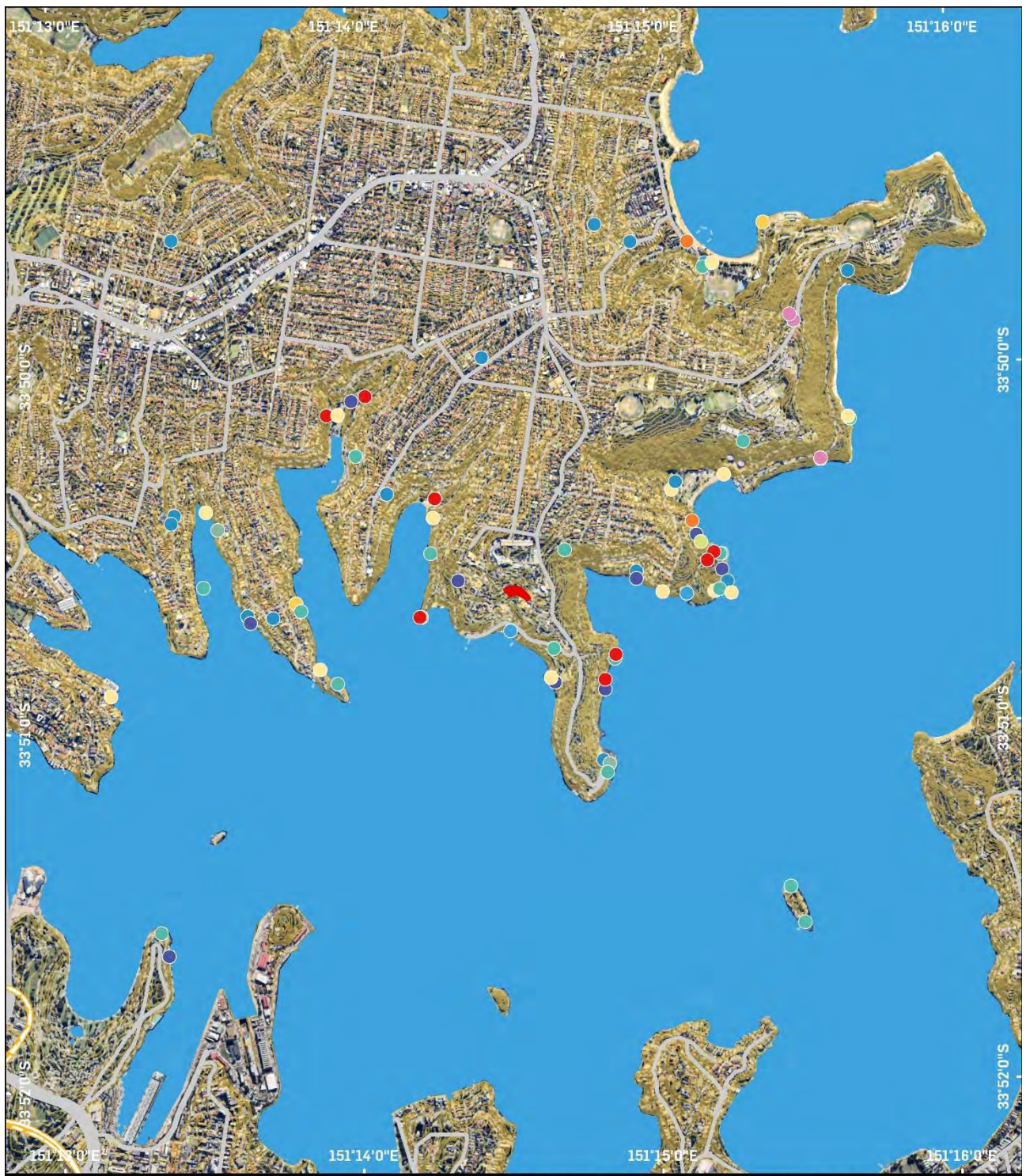
Burials are commonly found within middens and sand bodies. Aboriginal burial of the dead often took place relatively close to camp site locations. Burials are highly culturally significant and strongly protected under legislation. Sites containing human remains comprised 2.6% (n=2) of site types within the search area, with the remains identified within shelters with middens and art.

Sites containing stone artefacts comprised 47% (n=37) of site types. This included artefacts in open and closed context, with scatters of varying densities and associated with other materials. Artefact scatter sites are sites with multiple culturally modified lithics within a 10m area. Artefact scatters range in size; from small, low intensity, 'background' scatter, to large scatters of hundreds of artefacts, with accompanying materials which would indicate use of the area for long term habitation purposes.

Potential Archaeological Deposits (PAD) sites comprised 3.8% (n=3) of results, and occurred only in isolation across the search area, rather than being associated with other sites. PADs typically represent areas where the environmental context and level of disturbance are such that subsurface remains are deemed to be likely, and the registering of PADs is usually followed by test excavation which will either realise this potential through the identification of sites, or result in the de-registering of the area due to the absence of materials. PADs are typically registered within areas where deposits indicative of habitation are anticipated to occur.

It should be noted that the AHIMS register does not represent a comprehensive list of all Aboriginal objects or sites in a specified area. It lists recorded sites identified during previous archaeological survey effort. The wider surroundings of the subject area have experienced various levels and intensity of archaeological investigations during the last few decades. Most of the registered sites have been identified through targeted, pre-development surveys for infrastructure and maintenance works, with the restrictions on extent and scope of those developments.

Furthermore, it is important to note that archaeological sites alone will not provide the full context of how Aboriginal people might have used the landscape in the past and how their every day and ceremonial activities shaped the landscape and provided the cultural connection to the natural environment. Archaeological resources comprise only one aspect (tangible) of Aboriginal cultural heritage and intangible cultural heritage provides a more holistic context of past and present Aboriginal life.



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1 KM

Project No: P0031209 Reptile and Amphibian Conservation, Taronga Zoo, Bradley's Head Road, Mosman NSW
Project Manager: Balazs Hansel Taronga Conservation Society Australia

ABORIGINAL HERITAGE CONSTRAINTS

- | | | | | |
|---|---|--|---|---|
| Subject Area | ● Midden and Artefact | ● Rock Engraving | ● Shelter with Art | ● Shelter with Artefact |
| — Contours | ● Midden with Artefact | ● Rock engraving | ● Shelter with Art and Artefact | ● Shelter with Burial/s, Art and Midden |
| ■ Hydrology | ● Not an Aboriginal Site | ● Shell Midden | ● Shelter with Art and Midden | ● Shelter with Midden |
| ● Midden | ● PAD | ● Shelter | ● Shelter with Art and Shell Midden | ● Shelter with Midden and Artefact |
| | | | | ● Shelter with PAD |
| | | | | ● Shelter with Shell Midden |

Figure 7 – Registered Aboriginal sites in search area



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ABORIGINAL HERITAGE CONSTRAINTS

Project No: P0031209 Reptile and Amphibian Conservation, Taronga Zoo, Bradley's Head Road, Mosman NSW
Project Manager: Balazs Hansel Taronga Conservation Society Australia

- | | | | | |
|--------------|------------------------|------------------|---------------------------------------|----------------------------------|
| Subject Area | Midden | Rock Engraving | Shelter with Art and Artefact | Shelter with Midden |
| Contours | Midden and Artefact | Rock engraving | Shelter with Art and Midden | Shelter with Midden and Artefact |
| Hydrology | Midden with Artefact | Shell Midden | Shelter with Art and Shell Midden | Shelter with PAD |
| | Not an Aboriginal Site | Shelter | Shelter with Artefact | Shelter with Shell Midden |
| | PAD | Shelter with Art | Shelter with Burial/s, Art and Midden | |

Figure 8 – Registered Aboriginal sites in proximity.

2.3. REGIONAL ARCHAEOLOGICAL CONTEXT

Previous archaeological assessments across the Cumberland Plain provide important data on Aboriginal archaeological site distribution and typology. An understanding of the archaeological landscape within the subject area can be developed from this analysis.

Aboriginal occupation in the Sydney region encompasses at least 20,000 years with dates of 13,000 before present (BP) at Shaws Creek in the Blue Mountain foothills; 11,000 BP for Mangrove Creek and Loggers Shelter and c. 20,000 BP at Burrill Lake on the NSW South Coast (Attenbrow 2002). The majority of sites in the Sydney region have been dated to within the last 3,000 to 5,000 years, with many researchers proposing that occupation intensity increased during this period. This apparent intensity of occupation may have been influenced by rising sea levels. By about 6,500 BP, seas had risen to their present levels. Radiocarbon dating of charcoal samples from sand sheet contexts in proximity to the Cooks River have indicated occupation to the late Pleistocene (McDonald 2005). Older occupation sites along the now submerged coastline would have been flooded, with subsequent occupation concentrating and utilising resources along the current coastlines and changing ecological systems in the hinterland and the Cumberland Plain (Attenbrow 2002).

The Cumberland Plain Predictive Model has been developed through a number of assessments from 1985-1997 and onwards (Kohen, 1985; Smith, 1989; JMCHM, 1992; AMBS, 1997). These assessments involved developing and testing hypotheses about the location of artefactual material in relation to environmental factors including proximity to water and ridgelines. The predictive model was tested by excavations undertaken by Jo McDonald Cultural Heritage Management (JMCHM) in 1992 at Hoxton Park (JMCHM, 1992). The spatial location and density of artefacts recovered from these excavations, with highest density approximately 80-90m from the creek on higher ground, disputed previous claims about spatial distribution of sites within the Cumberland Plain region and led to the development of the currently accepted predictive model, which employs a model of environmental determinism.

More recently, excavation at Leppington undertaken by GML (GML, 2012) have begun to further interrogate and reconsider the environmental determinism of the predictive model. This has been supported by the work of Tim Owen (2015) which suggests that areas of high cultural sensitivity, where ritual and ceremonial practices were undertaken, are unlikely to involve surface or subsurface artefactual expression. Owen suggests a more complex pattern of spatial selection on the basis of activity, wherein certain spatial characteristics would be suitable for certain activities. This model of understanding of the use of space by Aboriginal people both pre-and post-settlement is developing and will continue to inform developing understandings of the use of space going forward.

2.4. LOCAL ARCHAEOLOGICAL CONTEXT

2.4.1. Taronga Zoo

Taronga Zoo has been the subject of previous archaeological assessments to guide and support development.

GML, 2004. Taronga Zoo Archaeological Management Plan

There is an existing Aboriginal Archaeological Management Plan (AMP) for the wider Taronga Zoo Park. This was prepared in 2004 by GML. The Archaeological Management Plan assessed the archaeological, environmental, and historical land use context of the Taronga Zoo site to inform a system by which the zoo was divided into Management Zones which correlated to archaeological potential and thus management strategies for potential Aboriginal archaeological sites.

The Taronga Zoo AMP characterises the Zoo site as consisting of sloping sandstone topography which has been levelled through cutting and filling in association with the establishment of the Zoo in the early 20th century. Areas which have been excavated down to bedrock are thus identified as archaeologically sterile. Other areas in which soil profiles survived but which have been heavily disturbed by earthworks and construction are identified as having medium – low potential. Where sections of the natural topography survive, these are identified as having potential for the following Aboriginal site types:

- Rock shelters with art and/or shell midden.
- Middens.
- Rock engravings.

- Grinding grooves.
- Open campsites.
- Isolated finds.

The AMP prepared by GML identified 5 management zones, discussed in the table below.

Table 3 – Management Zones

Zone	Description	Corresponding Potential
1	Identified Art Site	High
2	Unassessed area outside Zoo boundary wall	N/A
3	Rock surface unmodified by European development. Areas of original bushland unmodified by European development.	High
4	Areas heavily modified by European Development.	Medium to Low
5	Areas which have previously been excavated down to bedrock, or culturally sterile soils.	Nil

Source: GML, 2004.

The 2004 AMP identifies the subject area as within the following zones (Figure 8):

- Zone 4.
- Zone 5.

Accordingly, the subject area is registered as having Nil-medium Aboriginal archaeological potential according to this assessment. Management strategies identified for these zones include an Archaeological Induction for all contractors if subsurface disturbance is proposed and a chance find procedure developed.

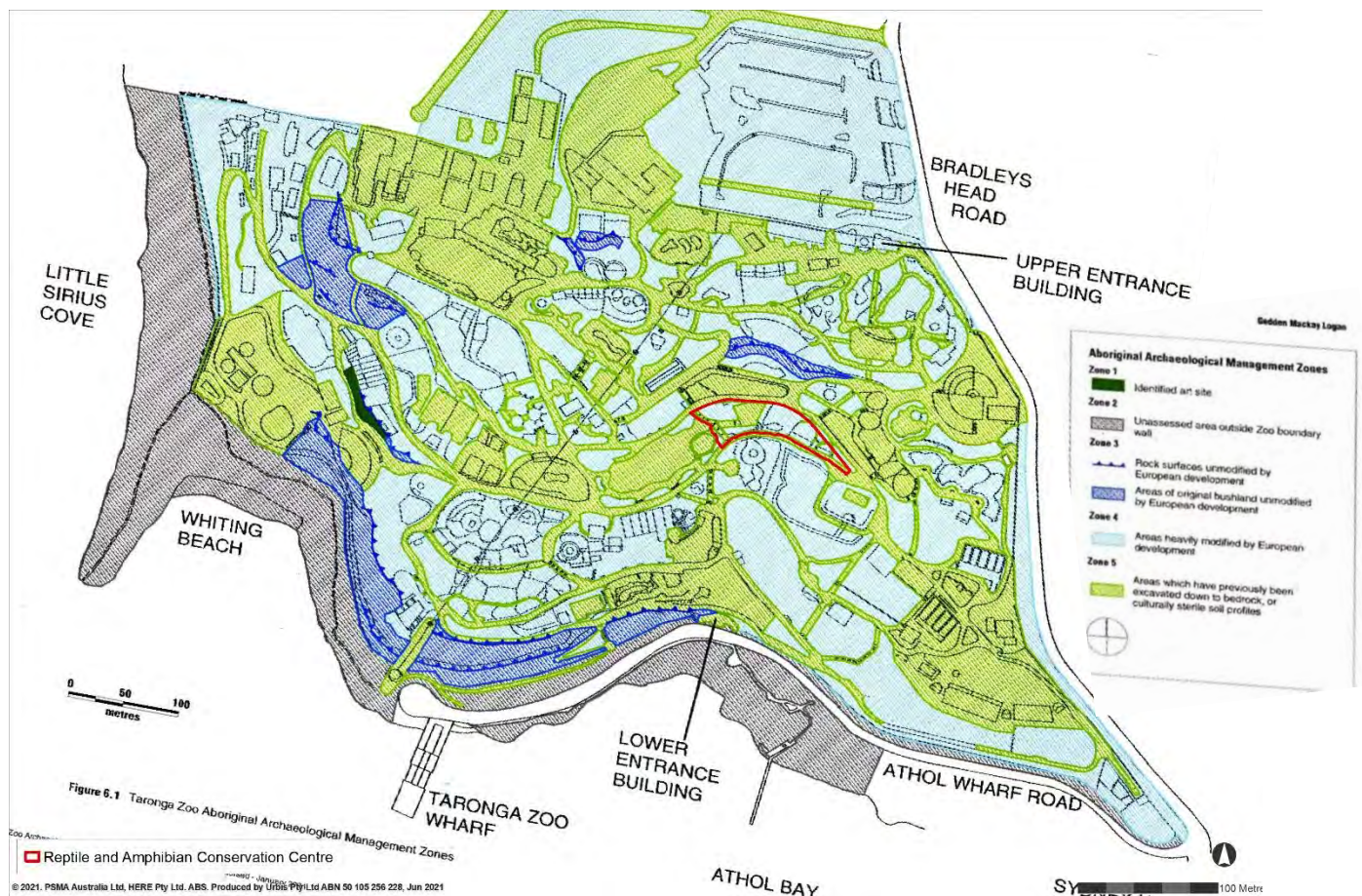


Figure 9 – Aboriginal Archaeological Management Zones

Source: Taronga Zoo AMP, 2004.

Urbis, 2020. Aboriginal Cultural Heritage Assessment, Upper Australia Precinct, Taronga Zoo.

In 2020, Urbis prepared an ACHA for the Upper Australia Precinct within Taronga Zoo, to the north of the current subject area, to support a SSDA. This involved the demolition of existing structures, including the Platypus House and landscape, and the construction of new facilities for the display of animals. This ACHA identified that no Aboriginal sites were registered on AHIMS or visible within the subject area, with no landscape features with potential for Aboriginal objects or archaeological deposits located within the subject area. The ACHA concluded that disturbance was high within the subject area resulting from the use of the site as a Zoo. This assessment recommended that, on the basis of the low potential of the site, no further work was necessary and an Aboriginal cultural heritage induction and chance finds procedure should be prepared and followed.

Dominic Steele Consulting Archaeology (DSCA), 2017. Aboriginal Archaeological Assessment – Taronga Zoo, Savannah & Congo Precincts.

In 2017, DSCA prepared an Aboriginal archaeological assessment for the Savannah and Congo Precincts at Taronga Zoo. This assessment identified that, while sandstone outcrops did occur within the subject area, they did not contain art or grinding grooves and did not provide overhangs suitable for occupation. No sites were registered within the subject area, nor were any identified during the site visit. No areas of potential sensitivity were identified and this assessment concluded that the works could proceed with a chance find procedure enacted.

2.4.2. Mosman

Archaeological publications which relate to the Mosman area date back over 120 years, with W. D. Campbell's (1899) and R. H. Mathews (1898, 1899) systematic recordation of Aboriginal rock engravings around Sydney throughout the 1890s. The subsequent 50 years experienced a hiatus in the investigation of Aboriginal sites.

Mosman Council commissioned heritage studies for the municipality in the late 20th century (Haglund and Rich 1988; Koettig 1991). Haglund and Rich (1988) identified 21 Aboriginal sites within the LGA and, just 3 years later, Koettig (1991) identified 77.

Throughout the 1990s Attenbrow (1990, 1991, 1991, 1993, 1994, 1995) undertook a number of archaeological surveys and excavations within the Mosman LGA. Attenbrow identified a further 123 occupation sites (1990). Excavations of a rock shelter at Balmoral Beach (Attenbrow 1992, 1993, 1994 & 1995) revealed a continuous record of occupation from 2,500 BP.

In 2005 an Aboriginal Heritage Study (AHS) was prepared for the Mosman LGA by AMBS. This publication was commissioned by the NSW National Parks and Wildlife Service (NPWS), Metropolitan Local Aboriginal Land Council (MLALC), Mosman Council and Sydney Harbour Federation Trust (SHFT) for the purpose of clearly articulating the responsibilities of these agencies in respect of the Aboriginal heritage of the Mosman LGA. At the time of writing there were 92 recorded sites within the Mosman LGA and the AHS identified a further 15.

These publications are briefly summarised below in Table 4.

Table 4 – Summary of previous publications relevant to the Mosman regional archaeological context

Report	Summary	Relevance to Subject Area
<i>Attenbrow & Ross, 1990. Archaeological Site Survey: Bradley's Head</i>	Report prepared in relation to the proposed redevelopment of the HMAS Memorial at Bradley's Head in Sydney Harbour National Park. It established that no Aboriginal sites were located within the vicinity of the proposed works, with the exception of a single artefact.	- Although the landscape context would predict that middens, art sites and other site types were once abundant on the southern tip of Bradley's head, these would have been removed through the construction of fortifications and roads in the 19th and 20th centuries. - Identified a rock shelter site (45-6-1959) in addition to the 5 registered sites located on Bradley's Head peninsula.
<i>Attenbrow, V. 1990. The Port Jackson Archaeological Project, Stage 1: a study of the Port Jackson Catchment</i>	A publication of relevance for the present assessment was the Port Jackson Archaeological Project, prepared by Val Attenbrow on behalf of the Australian Museum in 1990. Stage 1 of this study involved a survey of Aboriginal archaeological sites throughout Port Jackson, which contributed significantly toward an increased understanding of the relationship between site type and landscape features. The study found that the majority of sites were located within proximity of water, Hawkesbury sandstone and on the lower points of ridgelines. Attenbrow (1990:46-47) attributed these findings to the reduced development and increased visibility afforded by these landscape features.	- Established that the range and predominance of particular shellfish species varies according to distance from the harbour and that middens are located in relation to resources. - Established that 16% of middens were totally or highly disturbed, 31% were totally or partially disturbed and that in 53% of sites some in situ deposit had survived. - Established that Port Jackson retains a large number of middens which are suitable for scientific research purposes.
<i>Koettig, M. 1991. Mosman Municipality Heritage Study of Aboriginal Sites</i>	Koettig's review of Aboriginal sites throughout the Mosman LGA found that site types were 'typical of those found in the Hawkesbury Sandstone Region', which is characterised by an absence of stone arrangements, grinding grooves and scarred trees (Koettig 1991:39). This is reflected also	- Identified a total of 77 Aboriginal sites. - Established that the majority of occupational deposits are associated

Report	Summary	Relevance to Subject Area
	in the AHIMS search results for the present study in which none of these site types were observed (Table 2). Koettig found that although Aboriginal sites could be found in all parts of the landscape, clear associations were observed between particular site types and landscape features, with engravings more likely to be found along ridgetops and middens within proximity of the shoreline.	with the foreshore and always contain shell middens. - Established that art occurs both in open and closed contexts and in all areas of the landscape. - Identified two 'Art / Shelter' sites.
<i>Attenbrow, 1992, 1993, 1994, 1995. Archaeological Excavation of a rock shelter at the southern end of Balmoral Beach, Mosman</i>	This study documented the excavation of a shell midden at a rock shelter at Balmoral Beach. Excavation was undertaken both inside and outside of the rock shelter and revealed a continuous deposit containing stone artefacts, faunal remains, hearths and shell material dating back at least 2,500 BP.	- Revealed a record of continuous occupation over a period of 2,500 years, as indicated by multiple hearths. - Shell material was located principally in the upper 65 cm of the deposit, suggesting a transition to a marine-based diet. 18 different species of shellfish were identified, suggesting varied exploitation of the marine resources.
<i>AMBS, 2005. Aboriginal Heritage Study of the Mosman Local Government Area.</i>	In addition to consolidating the findings of previous publications, the AHS undertook statistical analyses as a means of identifying smaller (archaeological sites) and general (cultural landscape) trends. The study determined that: Highest frequencies of archaeological sites are around the foreshore; and Lowest frequencies of archaeological sites occur on interconnecting ridgetops. The study also found that the probability of the appearance of sites decreases as the elevation (or distance from water) increases (AMBS 2002:103). This outcome does not agree with Koettig's (1991:8) earlier assertion that 'it is not useful to use topographic or environmental variables as the basis for determining areas of higher or lower archaeological sensitivity'.	- Identified the Aboriginal heritage of the Mosman LGA as exceptional on the basis that the frequency and preservation of archaeological finds is almost unparalleled within the Sydney Metropolitan Area. - The majority of Aboriginal sites are located along the foreshore and lower slope areas, suggesting a preference for marine resources. - Middens, both open and closed, displayed the least variation of any Aboriginal site type in the Mosman LGA and reflect a preference for the coastal landscape, rather than a bias

Report	Summary	Relevance to Subject Area
<i>NSW Department of Environment, Climate Change and Water, 2010. Aboriginal Heritage of Mosman</i>	The absence of Aboriginal sites on ridgetops was interpreted as being a consequence of their being used as transit routes or for the exploitation of resources. The least sites were observed in association with interconnecting ridgetops, with the ends of ridgetops exhibiting the greatest potential because they 'provided the easiest access to water' (AMBS 2002:103). This document was prepared by DECC with the intention of providing an accessible guide to the Aboriginal heritage of the Mosman area.	caused by development away from the immediate shorelines. ▪ The distribution and variation within Aboriginal sites in relation to topography revealed two primary areas of occupation: north-west and south-east. ▪ Outlines principal site types which are found within the Mosman area; these being middens, archaeological deposits, engravings, pigment art, burials and grinding grooves.

2.5. SUMMARY

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

- No Aboriginal objects and/or places are registered on AHIMS within the subject area or within proximity.
- The subject area is within Zones 4 and 5 of the Taronga Zoo AMP prepared by GML in 2004. This is described as 'Areas which has previously been excavated down to bedrock, or culturally sterile soil profiles' and 'Areas heavily modified by European development'. Therefore, potential is identified as low-medium in areas zoned 4 and nil in areas zoned 5.
- There are a number of Aboriginal archaeological sites, particularly those which occur upon or within sandstone, within the wider regional context. Sandstone outcrops or overhangs which may occur within the subject area must be thoroughly examined for evidence of art or suitability for habitation.
- Regionally, the majority of occupational deposits are associated with the foreshore and generally always contain shell materials.
- Where disturbance is high, particularly across the wider Taronga Zoo grounds where land modification has been extensive with terracing for paths and exhibits, Aboriginal archaeological potential is diminished.

3. ENVIRONMENTAL CONTEXT

3.1. GEOLOGY AND SOILS

The subject area is located within the Sydney Basin Bioregion. The underlying geology of the Mosman area consists of Triassic Hawkesbury Sandstone, which is exposed along the shoreline (Chapman & Murphy 1989). The Hawkesbury Sandstone is a medium to coarse-grained quartz sandstone with minor shale and laminitic lenses.

The subject area is located primarily within the Gympie Lambert soil landscape (gy), which occurs on undulating to rolling rises and low hills on Hawkesbury Sandstone. Soils consist of shallow to moderately deep (30-100 cm) Yellow Earths and Earthy Sands on crests and inside of benches, shallow (<20 cm) Siliceous Sands on leading edges of benches, localised Gleyed Podzolic Soils and Yellow Podzolic Soils on shale lenses and shallow to moderately deep (<100 cm) Siliceous Sands and Leached Sands along drainage lines.

A small portion of the south west of the subject area is within the Hawkesbury Soil Landscape (ha), which occurs on rugged, rolling to very steep hills on Hawkesbury Sandstone. Soils consist of shallow (>50cm), discontinuous Lithosols/Siliceous Sands associated with rock outcrop; Earthy Sands, Yellow Earths, and some Yellow Podzolic soils on inside of benches and along joints and fractures; localised Yellow and Red Podzolic Soils associated with shale lenses; siliceous sands and secondary Yellow Earths along drainage lines.

The depth of natural soils is relevant to the potential for archaeological deposits to be present, especially in areas where disturbance is high. Most of the Mosman area is highly disturbed as a result of moderate density residential development during the 20th Century.

The wider Taronga Zoo area is characterised by the presence of intersecting sandstone ledges that sloped towards the harbour foreshore. The site has been subject to high levels of disturbance relating to its use as a zoo, which necessitated the creation of level building terraces by cutting and filling sections of the sandstone bedrock. The stratigraphy of the subject area is therefore comprised of alternating sections of shallow sandstone bedrock and fill.

3.1.1. Geotechnical Investigation

Geotechnical Investigation was undertaken on the subject area in February 2021, by Douglas Partners. This involved four cored boreholes drilled to depths of between 5.5m and 12.0m, with five dynamic cone penetration tests to a refusal at depths of between 0.3 and 2.4m in the area inaccessible to drilling equipment. The results of the geotechnical analysis concluded that the subsurface conditions of the subject area included fill to depths of about 1.1-2.1m overlying sandstone bedrock from depths between 1.1-2.1m to the base of the bore. Fill typically included concrete over sandy fill, or synthetic grass/pavers over gravelly or clayey sand and clay fill.

No natural soils were encountered during the geotechnical investigation. The results of the geotechnical analysis are discussed below.

Table 5 – Geotechnical Investigation Results

Borehole No.	Depth	Material
RA1	ground-0.19m	Concrete
	0.19-0.7m	Fill/gravelly sand: fine, grey, fine sandstone gravel, with silt, dry, apparently medium dense.
	0.7-1.6m	Fill/gravelly sand: fine to medium, brown, fine sandstone gravel, trace silt, dry, apparently medium dense
	1.6-2.1m	Fill/sand: fine to medium, orange, moist, apparently medium dense.
	2.1-12m	Sandstone (different types) (bedrock).

Borehole No.	Depth	Material
RA2	Ground-0.2m	Concrete
	0.2-0.7m	Fill/silty sand: fine, pale-brown, with sandstone gravel, dry, apparently medium dense to dense.
	0.7-1.3m	Fill/sand: fine, red-brown with sandstone gravel, silty, dry, apparently medium dense to dense.
	1.3-1.8m	Fill/sand: fine to medium, brown, with sandstone gravel, ash, moist, apparently dense
	1.8m-2.12m	Fill/silty sand: fine to medium, dark brown, with clay, trace fine sandstone gravel, moist, apparently dense
	2.12-11.55m	Sandstone (different types) (bedrock).
RA3	Ground-0.05m	Synthetic grass and foam
	0.05-0.2m	Fill/Gravelly sand: fine to medium, yellow-brown, fine igneous gravel, moist
	0.2-0.5m	Fill/clayey sand: fine to medium, dark brown, with silt, moist, apparently medium dense
	0.5-1.1m	Fill/silty clay: low to medium plasticity, pale grey mottled pale yellow, with fine sand, w~PL, apparently stiff Below 1.0m: w>PL
	1.1-5.54m	Sandstone (different types) (bedrock)
RA4	Ground-0.05m	Pavers
	0.05-0.1m	Fill/sand: fine to medium, orange, moist
	0.1-0.2m	Concrete
	0.2-0.3m	Fill/sand: fine to medium, grey, with fine igneous gravel, moist
	0.3-0.6m	Fill/clayey sand: fine to medium, dark brown, with silt, moist
	0.6-1.05m	Fill/silty clay: low to medium plasticity, pale grey mottled pale yellow, with fine sand, w~PL, apparently stiff
	1.05-5.52m	Sandstone (different types) (bedrock)

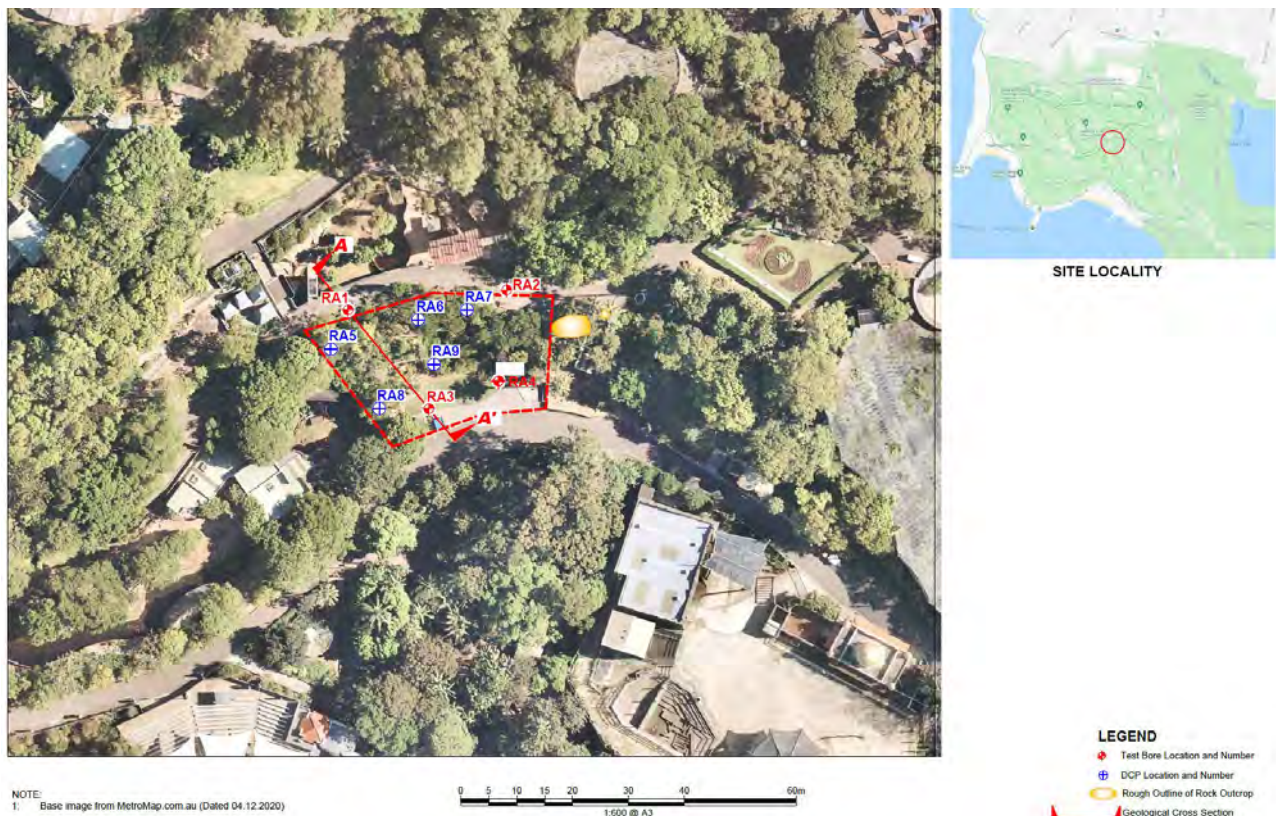


Figure 10 – Geotechnical Investigation – Borehole locations.
Source: Douglas Partners, 2021.

3.1.2. Sandstone Boulder

The subject area contains an outcrop of sandstone in the revegetated area north of the current meerkat enclosure. This sandstone boulder is proposed for removal in accordance with the plans for the redevelopment of the subject area. This sandstone boulder has been investigated to establish any potential cultural significance associated with it. This is detailed further in Section 6.4. Urbis note that the sandstone appears to be modified and not in-situ, with evidence of interference in the form of vertical drill marks on the western and northern side of the boulder and a pole which has been drilled through it. The boulder was likely broken from its original location, assumed to be to the north of the current subject site, and relocated downhill through pushing or natural erosion following detachment. It is unknown at what time this occurred, as no photos or plans showing the boulder were identified.

No Aboriginal art was identified on the boulder. The boulder caps an unknown amount of sandy deposit, which may contain archaeological deposits.

3.2. HYDROLOGY

The subject area is located on a peninsula which extends south into Port Jackson (Sydney Harbour). Taylors Gully drains into the harbour approximately 330m to the north east of the subject area. There is currently a highly modified creek to the north of the subject area which feeds the wetlands ponds. Generally, water exhibits were located across the Zoo in areas of previous gully's or creeks.

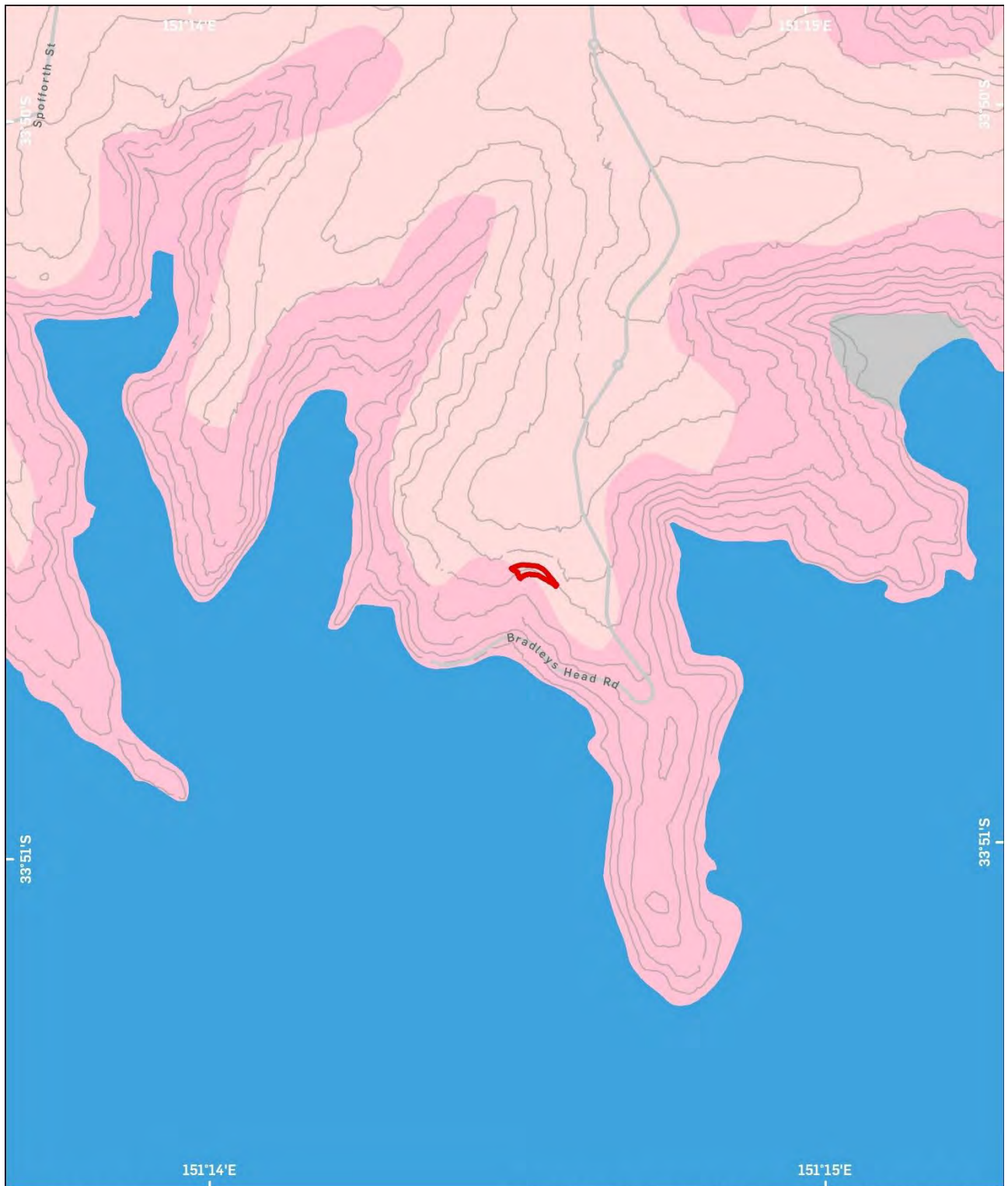
Hydrology is an important factor in any analysis of environmental factors and their contribution to archaeological potential. The predictive model for the Cumberland Plain developed across the 1980s-late 1990s and supported by more recent assessments (see Sections 2.3-2.4) hypothesises that proximity to permanent watercourses was a primary factor in the determination of locations for habitation. While the primacy of environmental determinism as a theory for the determination of predictive models to understand Aboriginal use of the land has been challenged in recent years (Owen, 2015), areas in proximity to watercourses are generally considered to be archaeologically sensitive. This includes the alluvial plains of watercourses and ridgelines and elevated areas above waterways.

3.3. VEGETATION AND RESOURCES

The Gynea soil landscape was originally characterised by dry sclerophyll woodland and open forest. Common species included red bloodwood *Eucalyptus gummifera*, yellow bloodwood *E. eximia*, scribbly gum *E. haemastoma*, brown stringybark *E. capitellata* and old man banksia *Banksia serrata*. On the more sheltered slopes, black ash *E. sieberi*, Sydney peppermint *E. piperita* and smooth-barked apple *Angophora costata* are common tree species. The dry sclerophyll understorey consisted of shrubs from the families Epacridaceae, Myrtaceae, Fabaceae and Proteaceae.

Whereas native forests have been extensively cleared to make way for residential development, Mosman retains a relatively large number of its native forests, particularly along its foreshores. This is the result of their original incorporation within military installations, which afforded them protection until they were transferred into the ownership of the State government in 1979 and became part of the Sydney Harbour National Park (AMBS 2005: 17).

Historical aerals show that the subject area was historically cleared of all vegetation.



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Project No: P0031209 Reptile and Amphibian Conservation, Taronga Zoo, Bradley's Head Road, Mosman NSW
Project Manager: Balazs Hansel Taronga Conservation Society Australia

- Subject Area
- Colluvial (COha)
- Disturbed Terrain (DTxx)
- Erosional (ERgy/ERla)
- Erosional (ERla)
- Water
- Hydrology
- Hydrology 200m Buffer
- Contours

Figure 11 – Soils landscapes and hydrology

3.4. LANDFORM

There are varying morphological types of Landform elements (see Figure 12 and Figure 13). The Australian Soil and Land Survey Field Handbook (CSIRO, 2009) identifies ten types. These types are as follows:

Table 6 – Landform definitions

Type	Definition
Crest (C)	Landform element that stands above all, or almost all, points in the adjacent terrain. It is characteristically smoothly convex upwards in downslope profile or in contour, or both. The margin of a crest element should be drawn at the limit of observed curvature.
Hillock (H)	Compound landform element comprising a narrow crest and short adjoining slopes, the crest length being less than the width of the landform element.
Ridge (R)	compound landform element comprising a narrow crest and short adjoining slopes, the crest length being greater than the width of the landform element.
Simple Slope (S)	Slope element adjacent below a crest or flat and adjacent above a flat or depression.
Upper Slope (U)	Slope element adjacent below a crest or flat but not adjacent above a flat or depression.
Mid Slope (M)	Slope element not adjacent below a crest or flat and not adjacent above a flat or depression.
Lower Slope (L)	Slope element not adjacent below a crest or flat but adjacent above a flat or depression.
Flat (F)	planar landform element that is neither a crest nor a depression and is level or very gently inclined (<3% tangent approximately).
Open Depression (vale) (V)	Landform element that stands below all, or almost all, points in the adjacent terrain. A closed depression stands below all such points; an open depression extends at the same elevation, or lower, beyond the locality where it is observed. Many depressions are concave upwards and their margins should be drawn at the limit of observed curvature.
Closed Depression (D)	Landform element that stands below all, or almost all, points in the adjacent terrain. A closed depression stands below all such points; an open depression extends at the same elevation, or lower, beyond the locality where it is observed. Many depressions are concave upwards, and their margins should be drawn at the limit of observed curvature.

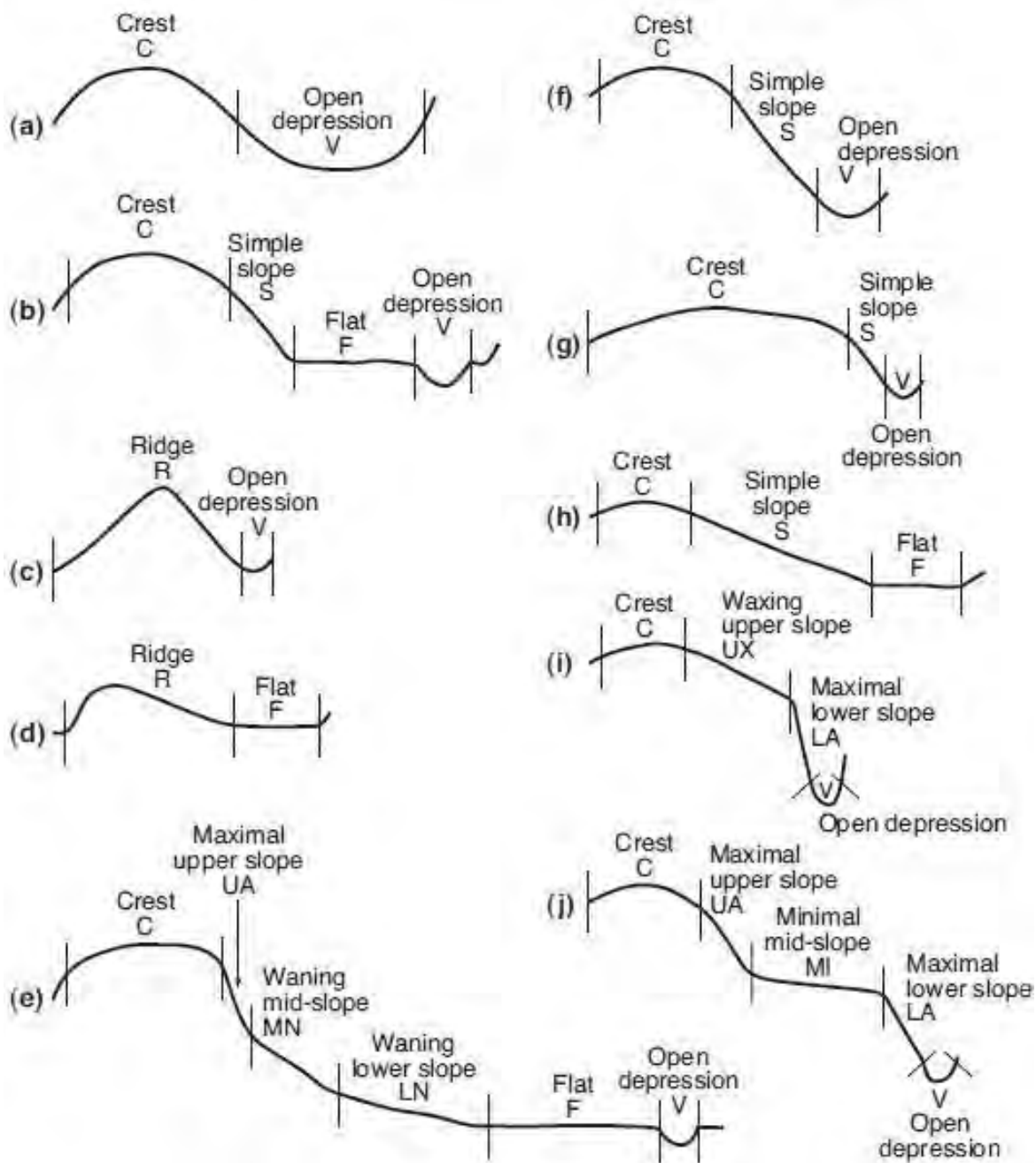


Figure 12 – Landform type

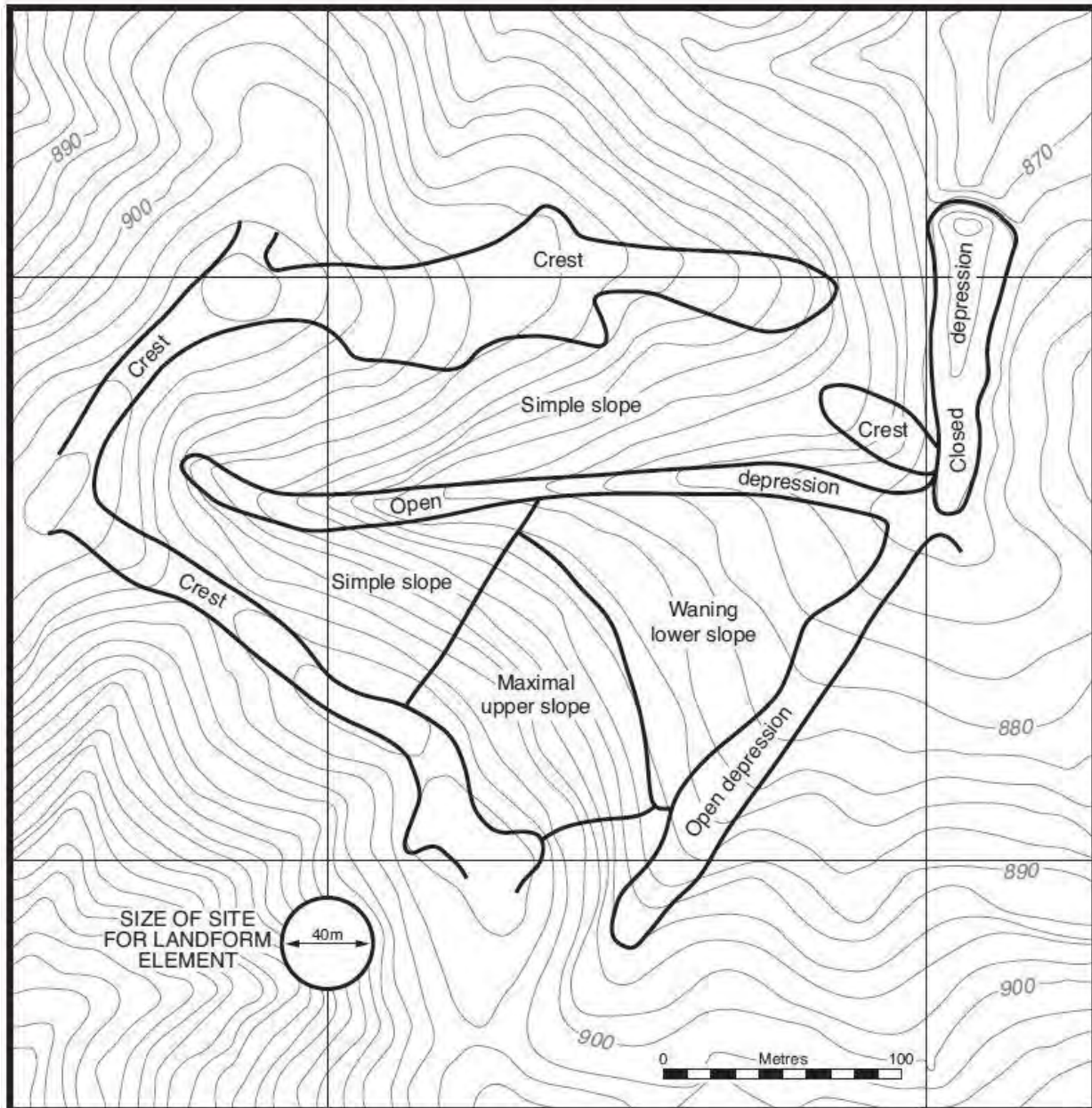


Figure 13 – Landform pattern

3.4.1. Landform Summary

Mosman is located on a sandstone ridge which forms a peninsula between Port Jackson and Middle Harbour. The ridge rises to 80 m above sea level. The wider Taronga Zoo is on a ridge which slopes to Port Jackson to the south and west. The topography of the Zoo is heavily modified.

The subject area is on a modified portion of the midslopes which has been terraced for the existing and historic facilities.

3.5. ENVIRONMENTAL CONTEXT SUMMARY

The following conclusions can be drawn from the above review of the environmental context:

- The subject area sits upon the Gynea/Lambert soil landscape, which contains mixed sandy soils to a depth of approximately 30-100cm.
- Geotechnical investigation identified no natural soils within boreholes across the subject area.
- The subject area is upon the top of the Bradley's Head peninsula, with the sider zoo surrounded by Port Jackson to the west and south. Taylor's Gully is approximately 330m north east of the subject area.
- The subject area is on a highly modified landform, which originally would have been a mid-slope. The topography is modified having been bulk excavated for previous facilities, including seal theatre, aviary and penguin pond, and the existing meerkat enclosure.

4. HISTORICAL CONTEXT

The following history provides a summary of the Aboriginal and historical land use of the Taronga Zoo area.

4.1. PAST ABORIGINAL LAND USE

The land upon which Taronga Zoo sits is within the traditional lands of the Kammeraegal (Cammaraigal, Gamaraigal) people, of the Guringai language group. The name ‘Taronga’ is reported to be the local Aboriginal word for ‘sea view’ (Watsford, 1920). The Cammeraigal people were custodians of the land and waterways of Mosman and North Sydney, including Cammeray, Balls Head (*yerroulbine*), Balmoral, Kirribilli and Cremorne (*wulwarrajeung*). The Cammeraigal people formed part of the Eora tribe. Radiometric dating provides dates of at least 5,800 years ago for sites with the North Sydney (*Cammera*) area (Hoskins, 2019). Early settler accounts of the Cammeraigal describe them thus:

Those who live on the north shore of Port Jackson are called Cam-mer-raygal, that part of the harbour being distinguished from others by the name of Cam-mer-ray. Of this last family or tribe we have heard Bennillong and other natives speak (before we knew them ourselves) as of a very powerful people, who could oblige them to attend wherever and whenever they directed. We afterwards found them to be by far the most numerous tribe of any within our knowledge. It so happened, that they were also the most robust and muscular” (Collins, 1798).

Primarily a water-based people, the Cammeraigal lived along the coast and rivers, fishing and hunting in the waters and hinterland areas (AHO, 2006). They subsisted primarily on aquatic resources and the high of middens located around this area attests to the importance of shellfish in the diets of Cammeraigal people. This would have been supplemented by a variety of seeds, fruits, nuts, rhizome and tubers. The sandstone topography of the area was equally as important – with overhangs and cliffs providing shelters to camp within. Other floral species would have been utilised for medicinal purposes and for the creation of shelters where sandstone overhangs were not present (Currie, 2008).

Archaeologically, over 1,000 sites across the lands of the Cammeraigal people attest to the extent of occupation and habitation in this area (Hoskins, 1920). Within Taronga Zoo, a number of Aboriginal sites are known to occur, attesting to the use of the area by the Cammeraigal people. The most common identified site type in the area are shelters with middens, reflective of the coastal environment and subsistence on aquatic life, as well as the importance of sandstone. The sandstone topography of the northern Sydney area did not only provide shelter, but also a place to share stories and ceremonies through art. A Rock Engraving of a whale/fish with a human figure inside identified near Balls Head (*yerroulbine*) upon a sandstone platform was described in the 1990s by a Bundjalung man:

This is a place of learning, a place of ceremonies, a place where the whales were sung in to shore. Whales beaching themselves in the Harbour were a great source of food. The man in the whale is a clever fella. It looks like he’s got a club foot, but that represents the feathers he wore on his feet so he did not make footprints... having no neck he was also the Creator” (Gerry Bostock, 1990, in Hoskins, 1920)

The Cammeraigal People interacted widely with neighbouring tribes. Inter-marriage between the Cadigal people of Sydney Harbour and the Cammeraigal people to the north were common and allowed Cammeraigal women to roam between the two territories even following European settlement. Barangaroo was one such notable Cammeraigal woman who, prior to European settlement of the north side of the harbour, frequented Sydney Cove and interacted with the Europeans there (Hoskins, 1920). Marriage was not the only unifying ritual for Aboriginal groups around the harbour – they also came together peacefully for feasting on beached whales and tooth evulsion ceremonies, an initiation ceremony for young boys involving the removal of a front tooth (Currie, 2008).

Personal communication with Aboriginal community members has identified that Bradley’s Head, the peninsula upon which Taronga Zoo is situated, played a significant role in the marriage rituals of young Cammeraigal women. Women would camp on the peninsula before embarking across the water to partake in marriage ceremonies around present-day Randwick. The whole of the Taronga Zoo area is significant to local Aboriginal people and has both intangible and tangible cultural heritage values for the way in which the land was utilised by Aboriginal people prior to and following European Settlement (Personal comm. Dennis Foley, 2021).

The impacts of colonisation were devastating for all Aboriginal people, but particularly for those groups living around the coast. With colonisation, Aboriginal people were forced away from their lands and the resources they relied upon. Settlement around the coast drove faunal resources further inland, reducing the traditional hunting grounds of local Aboriginal groups (Evidence, 1835). Further to this, diseases including smallpox and conflicts between local Aboriginals and colonisers decimated their population. Some estimations identify that only 10% of the Cammeraiagal population survived smallpox pandemics in the first 10 years following European settlement (University of Sydney, 2019). The smallpox epidemic changed much about Aboriginal life, including burial practices. Following the onset of smallpox within Cammeraiagal communities, funerary rites changed from the burial of the dead to cremation, to prevent the spread of disease (Pers. Comm, 2021). Some sources identify that the last surviving Cammeraiagal man was named Tarpot and lived in a cave near the barn at the head of Mosman Bay and survived to at least 1888 (Currie, 2008).

The Taronga Conservation Society Australia has made a concerted effort over the past many decades to acknowledge and pay respect to the traditional Aboriginal owners of the land on which they operate. The Taronga Zoo website includes a description of the Aboriginal history of the site and provides in depth information regarding Cammeraiagal people (Taronga Conservation Society Australia, 2020). As they acknowledge, *“Cammeraiagal were governed by and belonged to the land and all that it held, above and beneath the sandstone. Cammeraiagal people have lived in this area for thousands of years and continue to live nearby”* (TCSA, 2020).

4.2. EUROPEAN HISTORY

The history of the subject site is included in full in the accompanying Historical Archaeological Assessment prepared by Urbis in 2021. In general, the phases of historical use can be summarised as follows:

Early European Development – wherein the wider Taronga Zoo site was utilised as a quarantine station from 1879, and then resumed for military use in the 1890s. The Zoo was gazetted as Ashton Park in 1908.

Establishment of Taronga Zoo – Taronga Zoo was established at the site in 1912, with construction continuing until 1916. At this time, the subject area was densely vegetated and the lands immediately to the north had been excavated and levelled in preparation for the seal ponds. The subject area remained vegetated until at least 1940, with an aviary to the south west.

Development of the Subject Area – Under Strahan’s directorship (1967-1986) the subject area was developed. A seal facility was established, which resulted in heavy disturbance to the subject site through the grading of the natural slope and importing of silt to create the tiered seating of the seal show exhibit. To the south of the stands the area was excavated with rubble fill introduced to create the seal pond and adjacent seal pens, as well as a training and preparation structure constructed to the west of the theatre over the pens.

Under Dr John Kelly’s (1987-present) directorship, the subject area underwent further change. By 1998, a penguin pond had been established within the subject area to the east of the seal theatre, and a number of ancillary structures had been erected within the northern and eastern component of the site. To the south west, a gorilla enclosure replaced the aviary. By 2011, the seal show facilities had been removed and demolished to clay level. Terraced gardens replaced the theatre with gabion walls, requiring additional excavation and introduction of fill to establish the stepped profile now present. The penguin pond has since been infilled, and the meerkat enclosure currently present on the subject site constructed.

4.3. HISTORICAL AERIAL ANALYSIS

The development of facilities within the subject area has caused substantial levels of ground disturbance. This is demonstrated through the analysis of historic aerials. Historic aerial images from 1930, 1943, 1961, and 1990 were analysed to develop an understanding of disturbance (see Figure 14). A summary of this analysis is included in Table 7.

Table 7 – Analysis of historical aerials

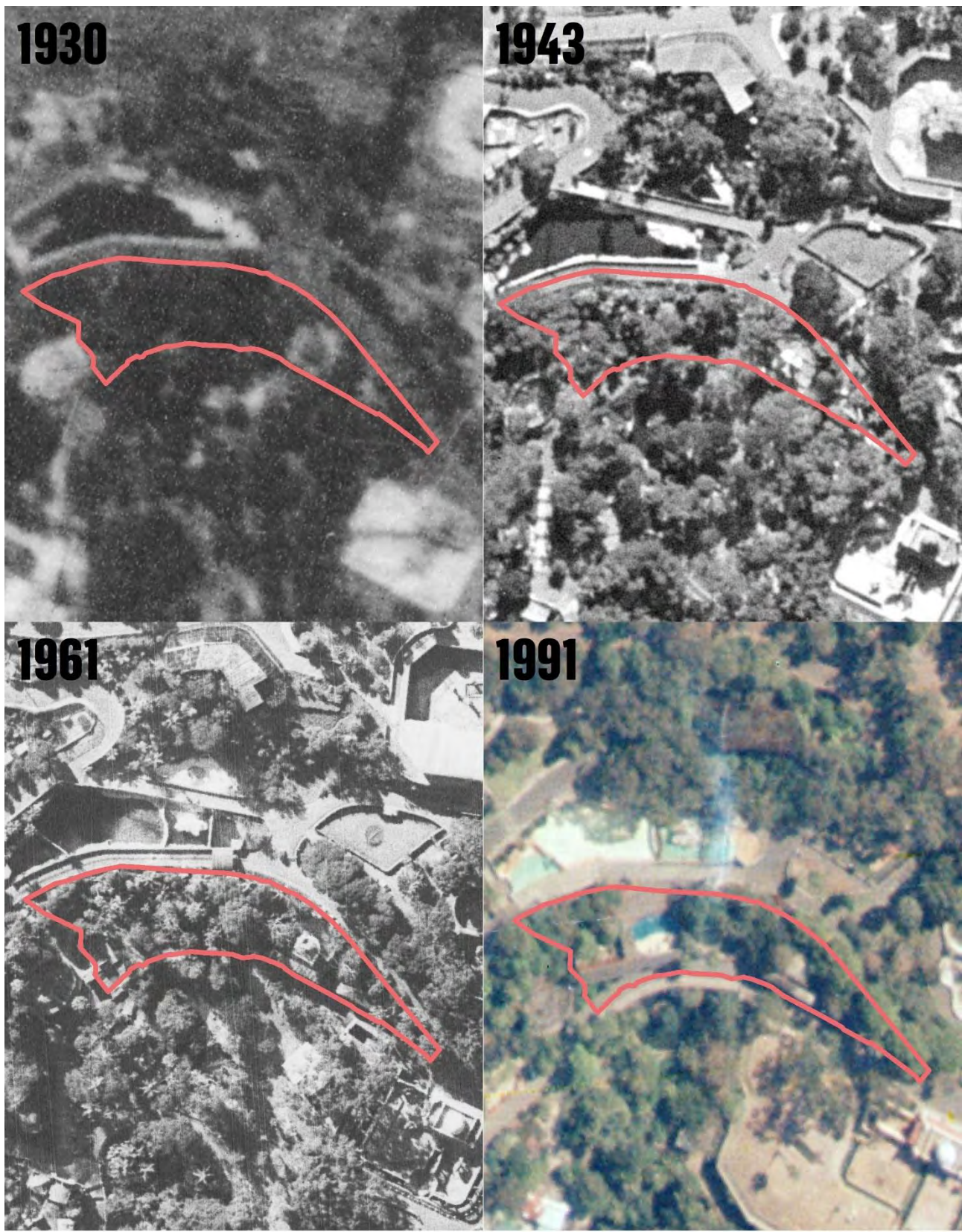
Year	Observation
1930	In 1930, the subject area is shown as vegetated land, presumably uncleared, natural vegetation. Development for the Zoo has commenced around the subject area, however it is untouched at this time. The seal ponds had been established to the north of the subject area, Parrots and Cockatoos enclosure to the east and an aviary to the south-west.

Year	Observation
1943	By 1943, the subject area remains natural vegetation. The formalised 'spine and rib' path system of the Zoo has been established by this time, with the road cut into the northern portion of the subject area. On the northern side of the road, adjacent to the subject area, is a seal pool. The parrot and cockatoo enclosures occupy the eastern component of the subject area.
1961	In 1961, the subject area has evidence of non-native plantings including palm trees, suggesting by this time original remnant vegetation may have been cleared and replanted. The since demolished aviary is visible outside of the western boundary of the subject area.
1990	By 1991 vegetation clearance had been undertaken within the central component of the site and the Seal Show facilities had been established. The seal pond appears as a rounded feature. The Parrots and Cockatoos enclosure remained to the east of the subject area. The path network remained unchanged.

4.4. SUMMARY OF DISTURBANCE

The subject area has experienced high to extreme levels of disturbance associated with the clearance of vegetation, the construction and demolition of Zoo facilities, including the seal theatre and the penguin pond, road and path construction, and the bulk excavation of the site and introduction of fill to create the terraced profile. Existing facilities including the meerkat enclosure will also have resulted in considerable disturbance.

It is considered likely that these high levels of disturbance will have impacted the archaeological potential of the subject area. The Taronga Zoo Archaeological Management Plan (AMP) identifies the subject area as being heavily modified by European development. The archaeological potential of the subject area is therefore determined to be low.



GDA 1994 MGA Zone 56



Project No: P0031209 Reptile and Amphibian Conservation, Taronga Zoo, Bradley's Head Road, Mosman NSW
Project Manager: Balazs Hansel

Subject Area

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HISTORICAL AERIAL PHOTOGRAPHS
Taronga Conservation Society Australia

Figure 14 – Historic Aerials

5. PREDICTIVE MODEL

The *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales* requires that an appropriate predictive model be used when undertaking an ACHA. A predictive model is used to estimate the nature and distribution of evidence of Aboriginal land use in a subject area. The results produced by a predictive model can be used to identify potential archaeological deposits (PADs).

A predictive model should consider variables that may influence the location, distribution and density of sites, features or artefacts within a subject area. Variables typically relate to the environment and topography, such as soils, landscape features, slope, landform and cultural resources. The following predictions for the subject area have been formulated on the basis of previous assessments, regional models and the AHIMS data provided in Section 2.1.

There are several site types which are known to occur within New South Wales. These site types and their likelihood to occur within the subject area are evaluated in Table 9 below.

The general process archaeologists employ to determine the likelihood of any particular site type (artefact scatter, shelter, midden etc) to occur within a given subject area requires the synthesis of information for general distribution of archaeological sites within the wider area including:

- Detailed analysis of previous archaeological investigations within the same Region.
- Presence or absence of landscape features that present potential for archaeological resources (human occupation, use) such as raised terraces adjacent to permeant water.
- Analysis of the geology and soil landscape within the subject area which allows for a determination to be made of the type of raw material that would have been available for artefact production (silcrete, tuff, quartz etc) and the potential for the accumulation of archaeological resource within the subject area.
- Investigation of and determination of the level of disturbance/historical land use within the subject area which may impact on or remove entirely any potential archaeological material.

The combination of these would give us an indication of various levels of possibility of finding archaeological resource within a given area. Please refer to Table 8 below for an example of the indicative process of determining the likelihood of a given site occurring within a subject area.

Table 8 – Indicative process of determining the likelihood of a given site occurring within a subject area

Likelihood	Indicative subject area context	Indicative action
High	Low level of disturbance, presence of one or more archaeologically sensitive landforms (raised terrace adjacent to permanent water, sand dunes, rock shelter etc), presence of archaeologically sensitive soil landscape (Tuggerah, Blacktown, South Creek etc), presence of previously recorded archaeological site(s) and/or identification of previously unrecorded archaeological site(s) within the subject area	Detailed archaeological investigation including but not limited to survey, test excavation and potentially (depending on density and/or significance of archaeological deposit) salvage excavation.
Moderate	Moderate level of disturbance, presence of one or more archaeologically sensitive landforms (raised terrace adjacent to permanent water, sand dunes, rock shelter etc), presence of archaeologically sensitive soil landscape (Tuggerah, Blacktown, South Creek etc), presence of previously recorded archaeological site(s) and/or identification of previously unrecorded archaeological site(s) within the subject area	Detailed archaeological investigation including but not limited to survey, test excavation and potentially (depending on density and/or significance of archaeological deposit) salvage excavation.

Likelihood	Indicative subject area context	Indicative action
Low	High level of disturbance, presence of one archaeologically sensitive landform (raised terrace adjacent to permanent water, sand dunes, rock shelter etc), presence of archaeologically sensitive soil landscape (Tuggerah, Blacktown, South Creek etc).	Employ chance finds procedure and works can continue without further archaeological investigation.
Nil	Complete disturbance, complete removal of natural soil landscape, zero archaeologically sensitive landform, geological or soil features. Zero previously recorded archaeological sites.	Employ chance finds procedure and works can continue without further archaeological investigation.

Table 9 – Predictive Model

Site Type	Description	Likelihood	Justification
Artefact Scatters	Artefact scatters represent past Aboriginal subsistence and stone knapping activities and include archaeological remains such as stone artefacts and hearths. This site type usually appears as surface scatters of stone artefacts in areas where vegetation is limited, and ground surface visibility increases. Such scatters of artefacts are also often exposed by erosion, agricultural events such as ploughing, and the creation of informal, unsealed vehicle access tracks and walking paths. These types of sites are often located on dry, relatively flat land along or adjacent to rivers and creeks. Camp sites containing surface or subsurface deposit from repeated or continued occupation are more likely to occur on elevated ground near the most permanent, reliable water sources. Flat, open areas associated with creeks and their resource-rich surrounds would have offered ideal camping areas to the Aboriginal inhabitants of the local area.	Low-moderate	- The subject area is highly disturbed, with the complete removal of the natural soil profile for previous and existing facilities. This bulk excavation will have removed and accumulated Aboriginal archaeological deposits which may have occurred, including artefact scatters. Records show the subject site has previously been excavated to clay. - There is low-moderate potential that archaeological resources may be identified within the sandy deposit beneath the existing sandstone boulder.
Isolated Finds	Isolated finds represent artefactual material in singular, one off occurrences. Isolated finds are generally indicative of stone tool production, although can also include contact sites. Isolated finds may represent a single item discard event or be the result of limited stone knapping activity. The presence of such isolated artefacts may indicate the presence of a more extensive, in situ buried archaeological deposit, or a larger deposit obscured by low ground visibility. Isolated artefacts are likely to be located on landforms associated with past Aboriginal activities, such as ridgelines that would have provided ease of movement through the area, and level areas with access to water, particularly creeks and rivers.	Low-moderate	- The subject area is highly disturbed, with the complete removal of the natural soil profile for previous and existing facilities. This bulk excavation will have removed and accumulated Aboriginal archaeological deposits which may have occurred, including Isolated finds. - There is low potential that archaeological resources may be identified within the sandy deposit

Site Type	Description	Likelihood	Justification
			beneath the existing sandstone boulder.
PAD	Potential Archaeological Deposits (or PADs) are areas where there is no surface expression of stone artefacts, but due to a landscape feature there is a strong likelihood that the area will contain buried deposits of stone artefacts. Landscape features which may feature in PADs include proximity to waterways, particularly terraces and flats near 3rd order streams and above; ridge lines, ridge tops and sand dune systems.	Low-moderate	- High levels of disturbance across the subject area have resulted in the removal of natural soils. This, combined with the absence of landscape features which would indicate potential, make the identification of PADs unlikely. - Should remnant natural deposit be identified below the sandstone outcrop, this may constitute a PAD.
Scarred Trees	Tree bark was utilised by Aboriginal people for various purposes, including the construction of shelters (huts), canoes, paddles, shields, baskets and bowls, fishing lines, cloaks, torches and bedding, as well as being beaten into fibre for string bags or ornaments (sources cited in Attenbrow 2002: 113). The removal of bark exposes the heart wood of the tree, resulting in a scar. Trees may also have been scarred in order to gain access to food resources (e.g. cutting toe-holds so as to climb the tree and catch possums or birds), or to mark locations such as tribal territories. Such scars, when they occur, are typically described as scarred trees. These sites most often occur in areas with mature, remnant native vegetation. The locations of scarred trees often reflect an absence of historical clearance of vegetation rather than the actual pattern of scarred trees. Carved trees are different from scarred trees, and the carved designs may indicate totemic affiliation (Attenbrow 2002: 204); they may also have been carved for ceremonial purposes or as grave markers.	Nil	There are no remnant original trees within the subject area as a result of historic land clearance.
Axe Grinding Grooves	Grinding grooves are the physical evidence of tool making or food processing activities undertaken by Aboriginal people. The manual rubbing of stones against other stones creates grooves in the rock; these are usually found on flat areas of abrasive rock such	Nil-Low	Sandstone outcrops within the subject area have been inspected and do not

Site Type	Description	Likelihood	Justification
	as sandstone. They may be associated with creek beds, or water sources such as rock pools in creek beds and on platforms, as water enables wet-grinding to occur.		contain visible evidence of grinding grooves. ▪ Axe Grinding Grooves are rare within the regional context. ▪ There is low potential that the non-visible side of the outcrop may contain grinding grooves upon removal.
Bora/Ceremonial	Aboriginal ceremonial sites are locations that have spiritual or ceremonial values to Aboriginal people. Aboriginal ceremonial sites may comprise natural landforms and, in some cases, will also have archaeological material. Bora grounds are a ceremonial site type, usually consisting of a cleared area around one or more raised earth circles, and often comprised of two circles of different sizes, connected by a pathway, and accompanied by ground drawings or mouldings of people, animals or deities, and geometrically carved designs on the surrounding trees.	Nil	▪ High levels of disturbance within the subject area will have removed any evidence of bora or ceremonial sites.
Burial	Aboriginal burial of the dead often took place relatively close to camp site locations. This is due to the fact that most people tended to die in or close to camp (unless killed in warfare or hunting accidents), and it is difficult to move a body long distance. Soft, sandy soils on, or close to, rivers and creeks allowed for easier movement of earth for burial; and burials may also occur within rock shelters or middens. Aboriginal burial sites may be marked by stone cairns, carved trees or a natural landmark. Burial sites may also be identified through historic records or oral histories.	Nil	▪ The subject area is highly disturbed and does not contain suitable landscape features for burial. Therefore, burials are highly unlikely to occur.
Contact site	These types of sites are most likely to occur in locations of Aboriginal and settler interaction, such as on the edge of pastoral properties or towns. Artefacts located at such sites may involve the use of introduced materials such as glass or ceramics by Aboriginal people or be sites of Aboriginal occupation in the historical period.	Nil	▪ The subject area is highly disturbed, with the complete removal of the natural soil profile for previous and existing facilities. This bulk excavation will have removed and accumulated Aboriginal archaeological materials

Site Type	Description	Likelihood	Justification
			which may have occurred, including contact sites.
Midden	Midden sites are indicative of Aboriginal habitation, subsistence and resource extraction. Midden sites are expressed through the occurrence of shell deposits of edible shell species often associated with dark, ashy soil and charcoal. Middens often occur in shelters, or in eroded or collapsed sand dunes. Middens occur along the coast or in proximity to waterways, where edible resources were extracted. Midden may represent a single meal or an accumulation over a long period of time involving many different activities. They are also often associated with other artefact types.	Low	The subject area is highly disturbed, with the complete removal of the natural soil profile for previous and existing facilities. This bulk excavation will have removed and accumulated Aboriginal archaeological materials which may have occurred, including middens.
Art	Art sites can occur in the form of rock engravings or pigment on sandstone outcrops or within shelters (discussed below). An engraving is some form of image which has been pecked or carved into a rock surface. Engravings typically vary in size and nature, with small abstract geometric forms as well as anthropomorphic figures and animals also depicted (DECCW, 2010c). In the Sydney region engravings tend to be located on the tops of Hawkesbury Sandstone ridges where vistas occur. Pigment art is the result of the application of material to a stone to leave a distinct impression. Pigment types include ochre, charcoal and pipeclay. Pigment art within the Sydney region is usually located in areas associated with habitation and sustenance.	Nil-Low	- Sandstone outcrops within the subject area have been inspected and do not contain visible evidence of art sites. - There is low potential that the non-visible side of the outcrop may contain art or engravings.
Shelters	Shelter sites are places of Aboriginal habitation. They take the form of rock overhangs which provided shelter and safety to Aboriginal people. Suitable overhangs must be large and wide enough to have accommodated people with low flooding risk. Due to the nature of these sites, with generic rock overhangs common particularly in areas with an abundance of sandstone, their use by Aboriginal people is generally confirmed through the correlation of other site types including middens, art, PAD and/or artefactual deposits.	Nil- Low	- There is an absence of suitable sandstone overhangs within the subject area. - There is low potential that the sandstone outcrop present in the subject site may once have formed part of an overhang, which will be explored following the removal of the stone.

5.1. SUMMARY

The predictive model has been developed on the basis of the regional and local context of the subject area, and the specific environmental and archaeological conditions of the subject area. The predictive model has identified that, resulting from historic disturbance activities and the existing environmental context, there is generally **nil-low** Aboriginal archaeological potential across the subject area. There is **low-moderate** potential for Aboriginal archaeological resources such as artefact scatters or isolated finds within the sandy deposit capped by the sandstone boulder which may have been protected from disturbance. There is Nil-Low potential for sites which occur on sandstone such as grinding groove or art sites to occur on the non-visible side of the known sandstone boulder, to be explored upon it's removal.

6. CONSULTATION PROCESS

6.1. STAGE 1: NOTIFICATION OF PROJECT PROPOSAL AND REGISTRATION OF INTEREST

6.1.1. Government Organisation Contact

The aim of Stage 1 is to identify, notify and register Aboriginal people who hold cultural knowledge relevant to determining the cultural significance of Aboriginal objects and/or places in the subject area.

A search of the Native Title Tribunal was undertaken on 3rd February 2021. This search identified the subject area as freehold tenure which extinguishes native title.

To identify Aboriginal people who may be interested in registering as Aboriginal parties for the project, the organisations stipulated in Section 4.1.2 of the Consultation Guidelines were contacted (refer to Table 10).

Table 10 – Contacted Organisations

Organisation	Date notification sent	Date Response Received
Office of the Registrar, Aboriginal Land Rights Act 1983	8/02/21	10/02/21
Department of Premier and Cabinet, Aboriginal Cultural Heritage Regulation Branch.	8/02/21	18/02/21
NTS Corp	8/02/21	N/A
Metropolitan Local Aboriginal Land Council	8/02/21	N/A
Local Land Services, Greater Sydney	8/02/21	N/A
Mosman Council	8/02/21	N/A
National Native Title Tribunal	3/02/21	4/02/21

The template for the emails sent to the above-mentioned organisations is at A total of 42 Aboriginal groups and individuals with an interest in the subject area were identified following this stage. These groups were contacted, with further information presented at Section 6.1.2 below.

6.1.2. Registration of Interest

In accordance with Section 4.1.3 of the Consultation Guidelines, letters were sent to the 43 Aboriginal groups and individuals on 22nd February 2021 via email or post (depending on the method identified by each group), to notify them of the proposed project. A total of 44 were sent via email, with 3 sent by express post. The letters afforded a response time of over 14 days, being 10th March 2021, in accordance with the 14-day minimum requirement. The letter template is shown at Appendix B and includes a brief introduction to the project and the project location.

A total of 12 groups registered interested in the project as a result of this phase within the nominated timeframe (refer Table 11).

Table 11 – Stage 1 Consultation – Registration of Interest

Organisation / Individual	Contact Person
Metropolitan Local Aboriginal Land Council (MLALC)	Selina Timothy
A1 Indigenous Services (A1)	Carolyn Hickey
Kamilaroi Yankuntjatjara Working Group	Phil Khan
Didge Ngunawal Clan	Lillie Carroll and Paul Boyd
Ginninderra Aboriginal Corporation (GAC)	Steven Johnson and Krystle Carroll
Wailwan Aboriginal Group (WAG)	Philip Boney
Ngambaa Cultural Connections (NCC)	Kaarina Slater
Taronga Aboriginal Advisory Group Member and Cammeraigal Traditional Custodian	Dennis Foley
Butucarbin Aboriginal Coproration (BAC)	Jennifer Beale
MurraBidgeeMullangari	Ryan johnson
Gulaga	Wendy Smith
Goobah	Basil Smith
Total	12

6.1.3. Public Notice

In accordance with Section 4.1.3 of the Consultation Guidelines, Urbis sought to publish an advertisement in one local newspapers. However, due to the Coronavirus, public newspapers were no longer publishing at this time. As a result a public notice was place in the KooriMail, which was identified as the most appropriate alternative.

The notice was published on the 24th February 2021, and registration remained open until 10th March 2021, providing 14 days to register an interest in accordance with the Consultation Requirements. A copy of the advertisement is included at Appendix B.

0 responses to the newspaper advertisement were received.

The list of Registered Aboriginal Parties (RAPs) was provided to DPIE and the Metropolitan Local Aboriginal Land Council on the 24th May 2021 (see Appendix B).

6.2. STAGE 2: PRESENTATION OF INFORMATION ABOUT THE PROJECT

The aim of Stage 2 is to provide registered Aboriginal parties with information about the scope of the proposed project, and the proposed cultural heritage assessment process. A Stage 2 Information Pack which included a brief introduction to the project, the project location, and AHIMS search result to provide understanding of the registered cultural sites in the local area, was sent to registered Aboriginal parties via email on the 13th May 2021. Request for response to the Stage 2/3 Information Packet was set to 10th June 2021.

The Information Pack was prepared as a combination of Stage 2 and 3 of the Consultation Guidelines, and included the following information:

- Project overview, location and purpose.
- Proposed works.
- Brief environmental and historical background.
- Notification of the site inspection.
- Protocol of gathering information on cultural heritage significance.
- Request for comment on methodology and recommendations for site investigation, and request for any cultural information the respondent wished to share.

The letter is included at Appendix B of this report.

Urbis note that the subject area boundary was subject to amendment following the close of the Stage 2 and 3 process. A letter discussing the slight boundary amendment was provided to RAPs on 2nd July 2021 including a discussion of the additional area. Urbis determined that the additional area contained the same environmental and archaeological context and therefore had the same potential as the area indicted in Stage 2 and 3. The letter is included at Appendix B of this report.

6.3. STAGE 3: GATHERING INFORMATION ABOUT THE PROPOSED PROJECT

Stage 3 is concerned with gathering feedback on a project, proposed methodologies, and obtaining any cultural information that registered Aboriginal parties wish to share. This may include ethno-historical information, or identification of significant sites or places in the local area. Three responses were received to the Stage 2 and 3 Information Pack.

These responses are included in Appendix B and addressed in Table 12 below.

Table 12 – Response to Stage 2 and 3 documents

RAP	Response	Urbis Response
Wendy Smith, Gulaga	<i>Received, thank you. Please keep Gulaga updated in the future.</i>	We acknowledge your response and thank you for your time in reviewing the Stage 2 and 3 document. We will keep all RAPs informed of the progress of the project.
Kadibulla Khan, KYWG	<i>Thank you for your ACHA for Taronga Zoo reptile and Amphibian Conservation Centre. Aboriginal people have walked this land for tens of thousands of years and continue to do so, we care for mother earth and she rewards us with her resources. Which we only take what we need and always give back to mother earth that's the way of the lore. We have a deep connection to our mother earth; we follow the skies and the stars of the night sky they guide us. We have connection to the flora and fauna, totems are sacred to us as they made us, water ways are of great importance to us they hold life and provide us with resources. The study area is of highly significant to us Aboriginal people as the environment would have been very different to today. The flora and fauna would have been thriving and full of resources for Aboriginal people. Water ways would have covered the area & would be utilised for fishing, stone tool manufacturing, birthing and wooden tool making. This suggests the area would also been used for hunting, gathering and ceremonial practices. I highly recommend further testing/ salvaging of the site, as it is highly significant to the Aboriginal community.</i>	Urbis acknowledge the long and vibrant history of Aboriginal people in Australia and their care for the land. We pay our respects to Elders past, present and emerging. We acknowledge the cultural significance of the land and its resources. We acknowledge your comments regarding the cultural significance of the subject area, and the resources it would have provided historically. These comments will be included in the report. We acknowledge the recommendation of testing/salvage of the site however we do not think that testing would result in the identification of archaeological deposit across the majority of the subject area due to the heavy disturbance through excavation to clay level and removal of natural soils known to have occurred across the subject area in association with previous structures on the site. However, Urbis do recommend that the removal of the sandstone boulder be subject to archaeological monitoring and testing should the deposit be identified as extensive.

RAP	Response	Urbis Response
	<i>I would like to mention Aboriginal interpretation, does the proponent have a plan? It is highly important that we are acknowledging one of the oldest continuing culture in the world, by recognising them through interpretation. This could be in the form of art, 3D artefact display, native gardens, and app or signage expressing the history of Aboriginal people within the area. I can't stress the importance of acknowledging the real traditional owners of which is being developed on.</i> <i>I would like to agree to your recommendations and support your methodology.</i>	Regarding interpretation, as the SEARs includes the requirement of adherence to the Connecting with Country Framework produced by the Government Architects Office, the proposed development will include interpretation, the details of which will be finalised throughout the process of the design development. This may include re-use of the existing sandstone boulder in landscaping. We thank you for your time in reviewing the Stage 2 and 3 document and for your support.
Kaarina Slater, Ngambaa Cultural Connections	<i>Confirming NCC has reviewed stage 2&3 reports.</i> <i>No further comments at this stage</i>	We acknowledge your response and thank you for your time in reviewing the Stage 2 and 3 document.
Dennis Foley, Taronga Aboriginal Advisory Group Member and Cammeragal Traditional Custodian.	Comments were received by Dennis in person during the pre-stage 2 and 3 site visits. These comments identified the significance of the sandstone boulder present on site and the desire that the boulder be kept on Country and re-used in landscape design. Dennis further recommended that the potential sandy deposit below the boulder be investigated through monitoring of the boulders removal, and potentially test excavation of the deposit if required.	We acknowledge Dennis' comments and his role within the TAAG. We support Dennis' recommendations and have incorporated them as recommendations in our report, and believe that the retention of the sandstone boulder and re-use in landscape design is an important aspect that works towards the goals of the Connecting with Country framework.

6.4. SITE INSPECTION

Two site inspections were undertaken for this project. The first was a preliminary site inspection with Dennis Foley, on 23rd February 2021. This was a preliminary site inspection to discuss the site and the project and provide the opportunity for comments regarding cultural heritage to be heard and received.

All RAPs were invited to attend a site inspection on the 16th of June 2021. Communication was initiated on 7th June 2021 to invite all RAPs to attend the site inspection, with the deadline for responses set to the 15th June 2021 to allow time to confirm with the proponent.

The following RAPs responded to the invitation and provided the necessary documentation.

Table 13 – Stage 3 Site Visit – Registration of Interest

Organisation / Individual	Contact Person
KYWG	Kadibulla Kahn & Stefeanie Khan
DNC	Joleen Smith
Butucarbin	Lowanna Gibson
Ginninderra Aboriginal Corporation	Kyrstle Carroll-Elliot
Ngambaa Cultural Connections	Kaarina Slater
MurraBidgeeMullangari	Darleen Johnson.

Further information regarding the site inspection is provided in Section 7.2.

6.5. STAGE 4: REVIEW OF DRAFT ACHA REPORT

The aim of Stage 4 is to prepare and finalise an ACHAR with input from registered Aboriginal Parties.

This Draft ACHAR will be provided to all groups who registered, and a minimum 28 days is stipulated for receiving submissions. It is noted that the time allowed for comment should reflect the size and complexity of the project. Submissions may be made in writing, or verbally, and are to be included in the final ACHAR. Responses from the Proponent are also required to be included in a final ACHAR in Appendix B.

Following inclusion of comments from the Aboriginal Parties, the final ACHAR is to be provided to DPIE, in conjunction with an AHIP application as required.

Table 14 - RAP feedback and Urbis reply during Stage 4 Draft ACHAR review.

RAP	Comment	Reply

TBC FOLLOWING CLOSE OF STAGE 4.

7. SITE SURVEY

7.1. PRELIMINARY SITE SURVEY

A preliminary site survey was undertaken on 23rd February 2021, with Dennis Foley from the Taronga Zoo Aboriginal Advisory Group, Taronga Zoo representatives and two Urbis archaeologists, Balazs Hansel and Meggan Walker. The survey confirmed heavy disturbance through the bulk excavation of the site.

The survey was preliminary and intended to gain relevant project and cultural information regarding the subject area. The meeting involved discussion regarding the site and a preliminary inspection. The survey confirmed low ground surface visibility across the site owing to coverage by meerkat enclosure, faux grass, leaf litter and paving. Visibility was 10%. A portion of the site was re-planted vegetation, with a sandstone boulder observed and inspected. No grinding grooves or art were visible on the sandstone boulder, which had been modified through the insertion of metal pole and drilling.

A secondary preliminary site visit was undertaken on the 25th of May with Dennis Foley and Urbis Associate Director Balazs Hansel to further discuss the sandstone boulder following concerns surrounding its removal and potential cultural significance. The secondary site visit was intended to ascertain whether the boulder was in situ, the presence of any markings indicating Aboriginal use, the cultural significance or intangible cultural value of the boulder and appropriate management of the boulder in the new development. The boulder was found to not be in-situ, with no markings indicating Aboriginal use. Due to the displacement of the boulder, no cultural heritage significance or intangible cultural values were identified and removal of the boulder was deemed appropriate, to be re-used if possible in landscaping of the new building. The boulder was also identified to cap an unknown amount of sandy deposit which may contain archaeological resources, and it was concluded that the removal of the boulder should be subject to archaeological monitoring.

During the first site visit, Dennis Foley confirmed that the site was heavily disturbed. Dennis identified that the whole of Taronga Zoo grounds and the wider Bradley's Head has intangible cultural heritage value, which should be acknowledged and respected. Dennis requested that geotechnical investigation results should be analysed for evidence of shell or charcoal.



Figure 15 – Sandstone boulder with drill marks evident.

Source: Urbis, 2021



Figure 16 – Sandstone boulder within subject area.

Source: Urbis, 2021



Figure 17 – view of the subject area from the south, including meerkat enclosure. Note disturbance and heavy modification required for exhibit. Aspect: West.

Source: Urbis, 2021



Figure 18 – View of faux grass and gradient across the subject area. Gabion walls visible, demonstrating disturbance at the site. Aspect: north west.

Source: Urbis, 2021



Figure 19 – View of subject area. Aspect: east.

Source: Urbis, 2021



Figure 20 – View of the planted portion of the subject area, with sandstone boulder in background. Aspect: east.

Source: Urbis, 2021

7.2. STAGE 2 AND STAGE 3 SITE SURVEY

The second site survey was undertaken on the 16th of June 2021. All RAPs were invited to attend, with the attendees listed below.

Table 15 – Stage 3 Site Visit – Registration of Interest

Organisation / Individual	Contact Person
KYWG	Kadibulla Kahn & Stefeanie Khan
DNC	Joleen Smith
Butucarbin	Lowanna Gibson

Organisation / Individual	Contact Person
KYWG	Kadibulla Kahn & Stefeanie Khan
Ginninderra Aboriginal Corporation	Kyrstle Carroll-Elliot

Two others (Ngambaa Cultural Connections and MurraBidgeeMullangari) responded to confirm attendance but were unable to attend on the day due to family matters.

The site visit involved a brief discussion and presentation of the technical assessment of the subject area by archaeologists to date – including review of environmental and archaeological contexts – prior to a walk over of the subject area with RAPs, Representatives of the TCSA and Urbis Archaeologist Meggan Walker.

During the discussion, the sandstone boulder was mentioned and RAPs on site confirmed the removal of the boulder and re-use in landscape design for the new development was appropriate. RAPs also confirmed their support for the monitoring of the boulder removal and potential test excavation below the boulder within the remnant sandy deposit. Kadibulla Khan expressed at this stage that testing should preferably be in 1mx1m pits.

In general, the following resolutions were agreed during the site visit:

- Removal of sandstone boulder to be monitored by archaeologist/RAPs.
- Potential testing in preferably 1mx1m pits to occur below the sandstone boulder to identify presence/absence of archaeological resources within remnant sandy deposit.
 - Pit size to be confirmed following development of methodology in accordance with the Code of Practice or under SSDA (no AHIP required).
- Interpretation to be guided by the Taronga Zoo Aboriginal Advisory Group (TAAG) in accordance with the whole of Zoo strategy.
- Keeping place on site should artefacts be identified in accordance with TAAG advice.

Support of these measures was confirmed in writing by Kadibulla Khan (KYWG) and Lowanna Gibson (Butucarbin). This correspondence is included in Appendix B.



Figure 21 –RAPs during site visit.

Source: Urbis, 2021



Figure 22 – RAPs inspecting boulder.

Source: Urbis, 2021

7.3. SURVEY UNITS

Due to the heavily disturbed nature, the whole of the site was considered to be one survey unit, being SU1, with the landform identified as modified terrain. Ground Surface visibility was approximately 0% due to facilities, faux grass, and leaf litter. No artefacts were identified across the subject area.

Table 16 – survey coverage

Survey Unit	Landform	Unit Area (sqm)	Visibility %	Exposure %	Effective Coverage Area (sqm)	Effective Coverage %
1	Modified Terrain	2118.53	0	0	0	0%

Table 17 – Landform Summary

Landform	Landform Area	Area effectively surveyed	% of landform effectively surveyed	Number of sites	Number of artefacts/features
Modified terrain	2118.53	0	0%	0	0

8. CULTURAL HERITAGE VALUES AND STATEMENT OF SIGNIFICANCE

8.1. METHODS OF ASSESSING HERITAGE SIGNIFICANCE

Heritage significance is assessed by considering each cultural, or archaeological site, against the significance criteria set out in the Assessment Guidelines. In all case, the assessment of significance detailed below is informed by the Aboriginal community, which is documented in this report. If any culturally sensitive values were identified they would not be specifically included in the report, or made publicly available, but would be documented and lodged with the knowledge holder providing the information.

8.2. ASSESSMENT FRAMEWORK

The Burra Charter (Australia ICOMOS 1999) defines the basic principles and procedure to be observed in the conservation of important places. It provided the primary framework within which decisions about the management of heritage sites should be made. The Burra Charter defines cultural significance as being derived from the values listed below.

8.2.1. Social or cultural value

Social or cultural value refers to the spiritual, traditional, historical or contemporary associations and attachments the place or area has for Aboriginal people. Social or cultural values is how people express their connection with a place and the meaning that place has for them.

Places of social or cultural value have associations with contemporary community identity. These places can have associations with tragic or warmly remembered experiences, periods, or events. Communities can experience a sense of loss should a place of social or cultural value be damaged or destroyed.

There is not always a consensus about a place's social or cultural value. When identifying values, it is not necessary to agree with or acknowledge the validity of each other's values, but it is necessary to document the range of values identified.

Social or cultural values can only be identified through consultation with Aboriginal people. This could involve a range of methodologies, such as cultural mapping, oral histories, archival documentation and specific information provided by Aboriginal people specifically for the investigation.

When recording oral history:

- Identify who was interviewed and why.
- Document the time, place and date the interview was conducted.
- Describe the interview arrangements (the number of people present, recording arrangements, information access arrangements).
- Provide a summary of the information provided to the person being interviewed.
- Summarise the information provided by each person interviewed.

More information on conducting oral history projects can be found in OEH's publication *Talking history: oral history guidelines*.

Occasionally information about social value may not be forthcoming. In these circumstances, document the consultation process but make it clear in the discussions and conclusions about social value that this was the case.

8.2.2. Historic value

Historic value refers to the associations of a place with a historically important person, event, phase or activity in an Aboriginal community. Historic places do not always have physical evidence of their historical importance (such as structures, planted vegetation or landscape modifications). They may have 'shared' historic values with other (non-Aboriginal) communities.

Places of post-contact Aboriginal history have generally been poorly recognised in investigations of Aboriginal heritage. Consequently, the Aboriginal involvement and contribution to important regional historical themes is often missing from accepted historical narratives. This means it is often necessary to collect oral histories along with archival or documentary research to gain a sufficient understanding of historic values.

8.2.3. Scientific (Archaeological) value

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 (Australian ICOMOS 1988).

Information about scientific values will be gathered through any archaeological investigation undertaken. Archaeological investigations must be carried out according to OEH's *Code of practice for archaeological investigation of Aboriginal objects in NSW*.

Scientific significance, also referred to as archaeological significance, is determined by assessing an Aboriginal heritage site or area according to archaeological criteria. The assessment of archaeological significance is used to develop appropriate heritage management and impact mitigation strategies.

Criteria for archaeological significance have been developed in accordance with DPIE guidelines, as shown in Table 18 below.

Table 18 – Scientific (archaeological) significance criteria

Significance Criteria	Description
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?
Condition	What is the condition of the site? Does it appear to have been impacted/alterd?

8.2.4. Aesthetic value

This refers to sensory, scenic, architectural, and creative aspects of the place. It is often closely 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 (Australian ICOMOS 1988).

8.3. IDENTIFYING VALUES

The information collected in the background review of the project can be used to help identify these values. The review of background information and information gained through consultation with Aboriginal people should provide insight into past events. These include how the landscape was used and why any identified Aboriginal objects are in this location, along with contemporary uses of the land.

Information gaps are not uncommon and should be acknowledged. They may require further investigation to adequately identify the values present across the subject area. It may be helpful to prepare a preliminary values map that identifies, to the extent of information available, the:

- Known places of social, spiritual, cultural value, including natural resources of significance.
- Known historic places.

- Known Aboriginal objects and/or declared Aboriginal places.
- Potential places/areas of social, spiritual, cultural value, including natural resources, historic or archaeological significance.

Places of potential value that are not fully identified or defined should be included as 'sensitive' areas to target further investigation.

8.4. ASSESSING VALUES AND SIGNIFICANCE

This stage is used to assess and discuss the cultural significance of the values identified during the identification and assessment of cultural significance by consulting Aboriginal people and to prepare a statement of significance. The assessment of values is a discussion of what is significant and why. An assessment of values is more than simply restating the evidence collected during the background review and identification of values stages of the project. Rather, the assessment should lead to a statement of significance that sets out a succinct summary of the salient values that have been identified.

The assessment and justification in the statement of significance must discuss whether any value meets the following criteria (NSW Heritage Office 2001):

- Does the subject area have a strong or special association with a particular community or cultural group for social, cultural or spiritual reasons? – social value.
- Is the subject area important to the cultural or natural history of the local area and/or region and/or state? – historic value.
- 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? – scientific (archaeological) value.
- Is the subject area important in demonstrating aesthetic characteristics in the local area and/or region and/or state? – aesthetic value.

Assessment of each of the criteria (above) should be graded in terms that allow the significance to be described and compared; for example, as high, moderate, or low. In applying these criteria, consideration should be given to:

- 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?

Then discuss what is significance and why – this should be summarised into a statement of significance. Thus, the statement of significance is a succinct summary of the salient values drawn from the identification of values.

8.4.1. Assessment of Cultural Heritage Significance and Values

An assessment of cultural heritage significance and values incorporates a range of values which may vary for different individual groups and may relate to both the natural and cultural characteristics of places or sites. Cultural significance and Aboriginal cultural views can only be determined by the Aboriginal community using their own knowledge of the area and any sites present, and their own value system. All Aboriginal heritage evidence tends to have some contemporary significance to Aboriginal people, because it represents an important tangible link to their past and to the landscape.

Consultation with members of the local Aboriginal community (project RAPs) was undertaken to identify the level of spiritual/cultural significance of the subject area and its components. In acknowledgment that the Aboriginal community themselves are in the best position to identify levels of cultural significance, the project

RAPs were invited to provide comment and input into this ACHAR and to the assessment of cultural heritage significance and values presented therein.

Comments received from the representatives of the project RAPs indicate that the wider Taronga Zoo site has high cultural significance associated with the use of the site by Aboriginal people (Dennis Foley, Pers. Comm.). Comments have also highlighted the subject area as culturally significant as an area where resources previously would have been abundant including flora and fauna, and waterways. The subject area is suggested to have been used for “*hunting, gathering and ceremonial practices*” (KYWG, Pers. Comm.).

FURTHER COMMENTS TO BE INCLUDED FOLLOWING STAGE 4.

8.4.2. Assessment of Scientific (Archaeological) Significance

In accordance with the *Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW*, and in consultation with representatives of the local Aboriginal community, the following assessment of the scientific (archaeological) significance of identified sites within the subject area has been prepared.

Due to the anticipated absence of archaeological deposits, the subject area is determined to have generally low archaeological (scientific potential). There is low-moderate potential for archaeological deposits to occur below the existing sandstone boulder within the sandy natural soils retained in this area, which should be explored through monitoring and potentially test excavation.

9. IMPACT ASSESSMENT

9.1. POTENTIAL HARM

This section identifies the potential impacts to cultural heritage arising from the proposal, including demolition, excavation, and construction phases. Harm can be direct or indirect, defined by the Assessment Guidelines as:

- Direct harm – may occur as the result of any activity which disturbs the ground including, but not limited to, site preparation activities, installation of services and infrastructure, roadworks, excavation, flood mitigation measures.
- Indirect harm – may affect sites or features located immediately beyond or within the area of the proposed activity. Examples include, but are not limited to, increased impact on art in a shelter from increased visitation, destruction from increased erosion and changes in access to wild food resources.

This ACHA has concluded that there is generally nil-low archaeological potential for subsurface Aboriginal archaeological deposits across the majority of the subject area, with low-moderate potential for deposit within remnant natural sandy soils encased below the sandstone boulder. As such, it is recommended that the boulder removal be monitored by archaeologists and further investigation of the area below conducted following the removal, which may require test excavation.

It is generally considered unlikely that the proposed works will result in direct or indirect harm to Aboriginal objects. As such, the works can proceed with monitoring of the removal of the sandstone boulder to ensure the deposit below does not contain archaeological resources.

9.2. LIKELY IMPACTED VALUES

As no scientific (archaeological) values are anticipated across the majority of the subject area, there is no direct or indirect harm to scientific values.

There is the potential for scientific (archaeological) values to occur in the form of archaeological deposit below the existing sandstone boulder. Should natural sandy deposit with the potential to contain artefacts be identified below the boulder, the likely impact will be direct and complete harm. As such, Urbis has recommended mitigation measures for this area, as discussed in Section 11.

CULTURAL VALUES TO BE INCLUDED FOLLOWING CLOSE OF STAGE 4.

9.3. JUSTIFICATION

The subject area has previously experienced extensive disturbance associated with the installation and removal of previous and current zoo exhibits. This disturbance has completely removed the natural soil profile within the majority of the subject area, reducing the potential for archaeological resources to occur. The only area with moderate potential for resources to occur is the area below the sandstone boulder, the removal of which is proposed to be monitored with test excavation recommended should the sandy deposit below be identified as present and extensive with the potential to contain artefactual material.

10. AVOIDING AND MINIMISING HARM

This ACHA has concluded that there is low potential for Aboriginal objects to have survived within the majority of the subject area. Consequently, it is highly unlikely that the proposed development will harm Aboriginal objects or archaeological resources.

This is with the exception of the sandy deposit identified below the sandstone boulder, which may contain intact original soils. This area therefore has low-moderate potential to contain scientific (archaeological) values in the form of Aboriginal objects which may be subject to direct harm and total loss of value as a result of the proposed works. Urbis have proposed mitigation measures to avoid harm through construction. These recommendations are detailed in Section 11, and include the following:

- Archaeological monitoring with RAPs on site of the removal of the sandstone boulder.
- Investigation of deposit capped by sandstone including test excavation should the deposit be deemed to contain extensive natural soils.

Should Aboriginal objects be identified, management of the objects will be through the establishment of a Car & Control agreement with the TAAG, and will include the establishment of a keeping place on site.

11. CONCLUSIONS AND RECOMMENDATIONS

The ACHAR concluded that:

- No Aboriginal objects and/or places are registered on AHIMS within the subject area or within proximity.
- The subject area is within Zones 4 and 5 of the Taronga Zoo AMP prepared by GML in 2004. This is described as 'Areas which has previously been excavated down to bedrock, or culturally sterile soil profiles' and 'Areas heavily modified by European development'. Therefore the site is identified as containing low-medium potential in areas zoned 4 and nil potential in areas zoned 5.
- Geotechnical investigation identified no natural soils within boreholes across the subject area.
- The subject area has experienced high to extreme levels of disturbance associated with the clearance of vegetation, the construction and demolition of Zoo facilities, including the seal theatre and the penguin pond, road and path construction, and the bulk excavation of the site and introduction of fill to create the terraced profile. Existing facilities including the meerkat enclosure will also have resulted in considerable disturbance.
- The archaeological potential of the subject area is therefore determined to be generally **low**.
- The sandstone boulder within the subject area has been identified as modified by Europeans with the presence of drill marks and metal poles through the boulder potentially from fencing. Sandy deposit has been sighted below the boulder. There is therefore **low-moderate potential** in this area.
- The subject area is upon the Bradley's Head Peninsula which is identified by RAPs as culturally significant, with generally high cultural significance identified for the whole school site. No specific cultural heritage values have been identified as associated with the subject area. **TBC FOLLOWING CLOSE OF STAGE 4.**

The proposed development can proceed in accordance with the following recommendations:

Recommendation 1 – Monitoring of the sandstone boulder removal and potential text excavation.

Due to the identified presence of sandy deposit below the sandstone boulder present within the subject area there is low-moderate Aboriginal archaeological potential in this area. The removal of the boulder should therefore be subject to archaeological monitoring and, should the sandy deposit be identified as extensive, test excavation should occur in this area to identify the presence/absence of artefactual deposit. Should intact deposit be found, an Archaeological Research Design and Excavation methodology should be prepared to inform the archaeological excavation.

Recommendation 2- Aboriginal Cultural Heritage Induction

It is recommended that induction materials be prepared in consultation with the Registered Aboriginal Parties (RAPs) for inclusion in the construction management plan and site inductions for any contractors working at the subject area. The induction material should include an overview of the types of sites and artefacts to be aware of (i.e. stone tools, concentrations of shells that could be middens and rock engravings and grinding grooves), under the NPW Act, and the requirements of an 'archaeological chance find procedure' (refer below). This should be prepared for the project and included in any site management plans.

The induction material may be paper based, included in any hard copy site management documents; or electronic, such as "PowerPoint" for any face-to-face site inductions.

Recommendation 3 – Archaeological Chance Find Procedure

Although considered highly unlikely, should any Aboriginal objects, archaeological deposits be uncovered during any site works, a Chance Find Procedure must be implemented. The following steps must be carried out:

1. All works stop in the vicinity of the find. The find must not be moved 'out of the way' without assessment.
2. The archaeologist and Aboriginal representative on site examine the find, provides a preliminary assessment of significance, records the item for the AHIMS register and decides on appropriate management. Such management may require further consultation with the Aboriginal Cultural Heritage

Regulation Branch of the Department of Premier and Cabinet (DPC), preparation of a research design and archaeological investigation/salvage methodology and decision on temporary care and control.

3. Depending on the significance of the find, reassessment of the archaeological potential of the subject area may be required, and further archaeological investigation undertaken.
4. Reporting may need to be prepared regarding the find and approved management strategies. Any such documentation should be appended to this ACHAR and revised accordingly.
5. Works in the vicinity of the find can only recommence when all management measures are implemented, and the find is removed from the activity area. Should the find be an unmovable item such as an engraving or grinding groove located on a sandstone surface, further management measures will need to be introduced to avoid harm to the find.

Recommendation 3 – Human Remains Procedure

In the unlikely event that human remains are uncovered during any site works, the following must be undertaken:

1. All works within the vicinity of the find immediately stop.
2. Site supervisor or other nominated manager must notify the NSW Police and DPC.
3. The find must be assessed by the NSW Police, and may include the assistance of a qualified forensic anthropologist.
4. Management recommendations are to be formulated by the Police, DPC and site representatives.
5. Works are not to recommence until the find has been appropriately managed.

Recommendation 4 – RAP consultation

A copy of the final ACHAR must be provided to all project RAPs. Ongoing consultation with RAPs should occur as the project progresses. This will ensure ongoing communication about the project and key milestones and ensure that the consultation process does not lapse, particularly with regard to consultation should the Chance Find Procedure be enacted.

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APPENDIX A

AHIMS BASIC AND EXTENSIVE RESULTS

Urbis Pty Ltd - Angel Place L8 123 Pitt Street

Level 8 123 Angel Street
Sydney New South Wales 2000

Attention: Meggan Walker

Email: mwalker@urbis.com.au

Date: 09 February 2021

Dear Sir or Madam:

AHIMS Web Service search for the following area at Datum :GDA, Zone : 56, Eastings : 335270 - 339270, Northings : 6251829 - 6255829 with a Buffer of 0 meters, conducted by Meggan Walker on 09 February 2021.

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



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

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

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

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

Important information about your AHIMS search

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

AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : TarongaZoo_RACC/Hospital

Client Service ID : 566678

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
45-6-2217	GH1	AGD	56	338850	6254280	Closed site	Valid	Artefact : -, Art (Pigment or Engraved) : -	Shelter with Art,Shelter with Deposit	2025,2988
	Contact	Recorders	Margrit Koettig					Permits		
45-6-2220	Balmoral Beach 4;	AGD	56	338240	6255270	Closed site	Valid	Shell : -, Artefact : -	Shelter with Midden	1809,2988
	Contact	Recorders	Val Attenbrow,K Cutmore					Permits		
45-6-2230	Clifton Gardens 1;Clifton Gardens;	AGD	56	338080	6254120	Open site	Valid	Shell : -, Artefact : -	Midden	2025
	Contact	Recorders	Margrit Koettig					Permits		
45-6-2342	Fig Trees Midden	AGD	56	338290	6255291	Open site	Valid	Shell : -, Artefact : -	Midden	
	Contact	Recorders	Michael Guider					Permits		
45-6-2320	Burrage Cave;Mosman;	AGD	56	337790	6253250	Closed site	Valid	Shell : -, Artefact : -	Shelter with Midden	
	Contact	Recorders	Michael Guider					Permits		
45-6-2322	Red Fish 2;Mosman;	AGD	56	337740	6253090	Closed site	Valid	Art (Pigment or Engraved) : -	Shelter with Art	
	Contact	Recorders	Michael Guider					Permits		
45-6-1959	Taronga Zoo Cave;Mosman;	AGD	56	336980	6253650	Closed site	Valid	Art (Pigment or Engraved) : -	Shelter with Art	2025
	Contact	Recorders	Michael Guider					Permits	3854	
45-6-2963	Shell Cove Rd NSW NSC-070	GDA	56	335604	6254130	Open site	Valid	Artefact : -		
	Contact	Recorders	Mr.Phil Hunt,Aboriginal Heritage Office					Permits		
45-6-0640	Mosman-Sydney	GDA	56	335604	6255590	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	
	Contact	Recorders	Michael Guider,Aboriginal Heritage Office					Permits		
45-6-2328	Chowder Head;Clifton Gardens;	AGD	56	338340	6253790	Closed site	Valid	Shell : -, Artefact : -	Shelter with Midden	
	Contact	Recorders	Michael Guider					Permits		
45-6-0265	Balmoral Beach	AGD	56	338550	6255480	Open site	Not a Site	Art (Pigment or Engraved) : -	Not an Aboriginal Site	2025
	Contact	Recorders	Margrit Koettig,Michael Guider					Permits		
45-6-0267	Mosman;	AGD	56	337682	6255487	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	2025
	Contact	Recorders	Margrit Koettig,W.D Campbell					Permits		
45-6-0272	Robertson's Point Cremorne	GDA	56	336129	6253645	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	597
	Contact	Recorders	Charles.D Power,Aboriginal Heritage Office					Permits		
45-6-0273	Cremorne Point Shell Cove	GDA	56	335999	6253655	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : TarongaZoo_RACC/Hospital

Client Service ID : 566678

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
	<u>Contact</u>	<u>Recorders</u>	Charles.D Power,Aboriginal Heritage Office					<u>Permits</u>		
45-6-0274	Cremorne Point Crows Nest	GDA	56	336249	6253720	Closed site	Valid	Shell : -, Artefact : -	Shelter with Midden	
	<u>Contact</u>	<u>Recorders</u>	Michael Guider,Aboriginal Heritage Office					<u>Permits</u>		
45-6-2061	Red Shield Cave;	AGD	56	335910	6253430	Closed site	Valid	Art (Pigment or Engraved) : -	Shelter with Art	1809
	<u>Contact</u>	<u>Recorders</u>	Michael Guider					<u>Permits</u>		
45-6-2062	Bradleys Beach	AGD	56	337762	6252708	Open site	Valid	Shell : -, Artefact : -	Midden,Open Camp Site	1809,1895,2025
	<u>Contact</u>	<u>Recorders</u>	Val Attenbrow,Michael Guider					<u>Permits</u>		
45-6-2063	Little Sirius Pt. 3;	AGD	56	336792	6253460	Open site	Valid	Shell : -, Artefact : -	Midden,Open Camp Site	1809,2025
	<u>Contact</u>	<u>Recorders</u>	Michael Guider					<u>Permits</u>		
45-6-2064	Little Sirius Pt. 2;Mosman;	AGD	56	336790	6253460	Closed site	Valid	Shell : -, Artefact : -	Shelter with Midden	1809,2025
	<u>Contact</u>	<u>Recorders</u>	Michael Guider					<u>Permits</u>		
45-6-2065	Little Sirius Pt. 1;Mosman;	AGD	56	336782	6253460	Closed site	Valid	Shell : -, Artefact : -	Shelter with Midden	1809,2025
	<u>Contact</u>	<u>Recorders</u>	Margrit Koettig,Michael Guider					<u>Permits</u>		
45-6-2066	Red Ochre Fish	AGD	56	337481	6253127	Closed site	Valid	Art (Pigment or Engraved) : -	Shelter with Art	1809,1895,2025
	<u>Contact</u>	<u>Recorders</u>	Michael Guider					<u>Permits</u>		
45-6-2068	Shell Cove 2	GDA	56	335784	6254190	Open site	Valid	Shell : -, Artefact : -	Midden	1809
	<u>Contact</u>	<u>Recorders</u>	Michael Guider,Aboriginal Heritage Office					<u>Permits</u>		
45-6-2069	Shell Cove 1	GDA	56	335844	6254100	Open site	Valid	Shell : -, Artefact : -	Midden	1809
	<u>Contact</u>	<u>Recorders</u>	Michael Guider,Aboriginal Heritage Office					<u>Permits</u>		
45-6-2071	Cremorne Pt. 1	GDA	56	336464	6253305	Closed site	Valid	Shell : -, Artefact : -	Shelter with Midden	1809
	<u>Contact</u>	<u>Recorders</u>	Michael Guider,Aboriginal Heritage Office					<u>Permits</u>		
45-6-1896	Chowder Head	AGD	56	338303	6253598	Open site	Valid	Shell : -, Artefact : -	Midden	2025
	<u>Contact</u>	<u>Recorders</u>	Michael Guider					<u>Permits</u>		
45-6-1897	Chowder Head 1	AGD	56	338161	6253587	Closed site	Valid	Art (Pigment or Engraved) : -, Shell : -, Artefact : -	Midden,Shelter with Art	2025
	<u>Contact</u>	<u>Recorders</u>	Michael Guider					<u>Permits</u>		
45-6-1898	The Balcony	AGD	56	338343	6253710	Closed site	Valid	Art (Pigment or Engraved) : -	Shelter with Art	2025
	<u>Contact</u>	<u>Recorders</u>	Michael Guider					<u>Permits</u>		

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : TarongaZoo_RACC/Hospital

Client Service ID : 566678

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
45-6-1899	Chowder Head 2	AGD	56	338036	6253594	Open site	Valid	Artefact : -, Shell : -	Midden,Open Camp Site	2025
	<u>Contact</u>	<u>Recorders</u>	Margrit Koettig,Michael Guider					<u>Permits</u>		
45-6-1905	Reid Park 2;Mosman;	AGD	56	336500	6254600	Open site	Valid	Shell : -, Artefact : -	Midden	2025
	<u>Contact</u>	<u>Recorders</u>	Margrit Koettig,Michael Guider					<u>Permits</u>		
45-6-1906	Reid Park 1;Mosman;	AGD	56	336300	6254500	Open site	Valid	Shell : -, Artefact : -	Midden	2025
	<u>Contact</u>	<u>Recorders</u>	Margrit Koettig,Michael Guider					<u>Permits</u>		
45-6-2206	Reid Park 3;Mosman;	AGD	56	336357	6254502	Open site	Valid	Artefact : -, Shell : -	Midden,Open Camp Site	2025
	<u>Contact</u>	<u>Recorders</u>	Michael Guider					<u>Permits</u>		
45-6-2208	Bradleys Beach rock shelter	AGD	56	337751	6252663	Closed site	Valid	Shell : -, Artefact : -	Shelter with Midden	1895,2025
	<u>Contact</u>	<u>Recorders</u>	Andrew Ross					<u>Permits</u>		
45-6-2117	Clifton Cave;	AGD	56	338209	6253889	Closed site	Valid	Art (Pigment or Engraved) : -	Shelter with Art	2025
	<u>Contact</u>	<u>Recorders</u>	Michael Guider					<u>Permits</u>		
45-6-2118	Mosman Bradley's Head	AGD	56	337474	6253300	Closed site	Valid	Shell : -, Artefact : -	Shelter with Midden	1895,2025
	<u>Contact</u>	<u>Recorders</u>	Michael Guider					<u>Permits</u>		
45-6-2119	Mosman Athol Beach	AGD	56	337460	6253150	Open site	Valid	Artefact : -	Open Camp Site	1895,2025
	<u>Contact</u>	<u>Recorders</u>	Val Attenbrow,Michael Guider					<u>Permits</u>		
45-6-2121	Cremorne Pt. 3;	AGD	56	336170	6253490	Closed site	Valid	Shell : -, Artefact : -	Shelter with Midden	
	<u>Contact</u>	<u>Recorders</u>	Michael Guider					<u>Permits</u>		
45-6-2123	The Barn Cave;Mosman;	AGD	56	336450	6254290	Closed site	Valid	Shell : -, Artefact : -	Shelter with Midden	2025
	<u>Contact</u>	<u>Recorders</u>	Michael Guider					<u>Permits</u>	2106	
45-6-2124	Chowder Head 2;	AGD	56	338188	6253961	Closed site	Valid	Shell : -, Artefact : -, Art (Pigment or Engraved) : -	Shelter with Art,Shelter with Midden	2025
	<u>Contact</u>	<u>Recorders</u>	Michael Guider					<u>Permits</u>		
45-6-2130	Athol Bay Cave;Mosman;Taronga Park Zoo;	AGD	56	337250	6253390	Closed site	Valid	Shell : -, Artefact : -, Art (Pigment or Engraved) : -	Shelter with Art,Shelter with Midden	2025
	<u>Contact</u>	<u>Recorders</u>	Margrit Koettig,Michael Guider					<u>Permits</u>		
45-6-0641	Crows Nest;Neutral Bay;	AGD	56	335516	6253982	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	
	<u>Contact</u>	<u>Recorders</u>	ASRSYS					<u>Permits</u>		

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : TarongaZoo_RACC/Hospital

Client Service ID : 566678

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
45-6-2143	Cremorne Point West (duplicate copy 45-6-0273 and 45-2-0274)	GDA	56	335770	6253800	Closed site	Valid	Shell : -, Artefact : -	Shelter with Midden	1809,1911
	Contact	Recorders	W.D Campbell,Aboriginal Heritage Office					Permits		
45-6-1231	Sea Scouts Fence Cave	AGD	56	338550	6255500	Closed site	Valid	Art (Pigment or Engraved) : -, Shell : -, Artefact : -	Shelter with Art,Shelter with Midden	2025,2204,2988
	Contact	Recorders	Margrit Koettig,Michael Guider,Michael Guider,Mr.R Taplin,Mr.R Taplin					Permits		
45-6-2092	Obelisk Bay	AGD	56	338990	6255250	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	1809,2025,2988
	Contact	Recorders	Margrit Koettig,Michael Guider					Permits		
45-6-2168	RSYS midden;	AGD	56	335190	6253050	Open site	Valid	Artefact : -, Shell : -	Midden,Open Camp Site	
	Contact	Recorders	Michael Guider					Permits		
45-6-2178	Shark Island 2;	GDA	56	338802	6252265	Open site	Valid	Shell : -, Artefact : -	Shelter with Midden	
	Contact	Recorders	Michael Guider,GML Heritage Pty Ltd + Context - Surry Hills,Doctor.Tim Owen					Permits		
45-6-2179	Shark Island 1;	GDA	56	338876	6252082	Open site	Valid	Shell : -, Artefact : -	Midden	
	Contact	Recorders	Michael Guider,GML Heritage Pty Ltd + Context - Surry Hills,Doctor.Tim Owen					Permits		
45-6-2323	Birds Nest Cave;Clifton Gardens;	AGD	56	337530	6253810	Closed site	Valid	Shell : -, Artefact : -	Shelter with Midden	
	Contact	Recorders	Michael Guider					Permits		
45-6-2327	Chowder Bay;Clifton Gardens;	AGD	56	338350	6254200	Open site	Valid	Shell : -, Artefact : -	Midden	
	Contact	Recorders	Michael Guider					Permits		
45-6-2329	Chowder Head 3;Clifton Gardens;	AGD	56	338330	6253790	Closed site	Valid	Shell : -, Artefact : -	Shelter with Midden	
	Contact	Recorders	Michael Guider					Permits		
45-6-2330	Two Fish;Clifton Gardens;	AGD	56	338370	6253650	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	
	Contact	Recorders	Michael Guider					Permits		
45-6-2331	Koree Cave	AGD	56	338450	6254370	Closed site	Valid	Shell : -, Artefact : -	Shelter with Midden	
	Contact	Recorders	Michael Guider					Permits		
45-6-2332	Clifton Reserve 1;Clifton Gardens;	AGD	56	338100	6254160	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	
	Contact	Recorders	Michael Guider					Permits		
45-6-2333	Shale Cave;Clifton Gardens;	AGD	56	338330	6253610	Closed site	Valid	Shell : -, Artefact : -	Shelter with Midden	
	Contact	Recorders	Michael Guider					Permits		
45-6-2334	Chowder Head 5;Clifton Gardens;	AGD	56	338390	6253590	Open site	Valid	Shell : -, Artefact : -	Midden	

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : TarongaZoo_RACC/Hospital

Client Service ID : 566678

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
	<u>Contact</u>	<u>Recorders</u>	<u>Permits</u>							
45-6-2042	Ashton park	AGD	56	337730	6252728	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	1809,1895,2025
	<u>Contact</u>	<u>Recorders</u>	<u>Permits</u>							
45-6-0740	Mosman;Balmoral;	AGD	56	337866	6255399	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	2025
	<u>Contact</u>	<u>Recorders</u>	<u>Permits</u>							
45-6-1757	Georges Head 2	AGD	56	338990	6254500	Open site	Valid	Artefact : -, Shell : -	Midden,Open Camp Site	2025,2988
	<u>Contact</u>	<u>Recorders</u>	<u>Permits</u>							
45-6-0656	Mosman Bay	AGD	56	336428	6254573	Closed site	Valid	Art (Pigment or Engraved) : -	Shelter with Art	2025
	<u>Contact</u>	<u>Recorders</u>	<u>Permits</u>							
45-6-0658	Crows Nest;Avenue Rd;	AGD	56	336611	6254095	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	2025
	<u>Contact</u>	<u>Recorders</u>	<u>Permits</u>							
45-6-0665	Mosman Bay;	AGD	56	337100	6254800	Open site	Deleted	Art (Pigment or Engraved) : -	Rock Engraving	2025
	<u>Contact</u>	<u>Recorders</u>	<u>Permits</u>							
45-6-0674	Bradley's Head;Taylor's Bay;	AGD	56	337900	6253662	Closed site	Valid	Art (Pigment or Engraved) : -	Shelter with Art	2025
	<u>Contact</u>	<u>Recorders</u>	<u>Permits</u>							
45-6-0677	Balmoral Beach 2;Bungarees cave;	AGD	56	338250	6255290	Closed site	Valid	Art (Pigment or Engraved) : -, Shell : -, Artefact : -	Shelter with Art,Shelter with Midden	1809,2025,98676
	<u>Contact</u>	<u>Recorders</u>	<u>Permits</u>							
45-6-0678	Balmoral Beach 3;	AGD	56	338160	6255400	Closed site	Valid	Art (Pigment or Engraved) : -, Shell : -, Artefact : -, Burial : -	Burial/s,Midden,Shelter with Art	1809,2025,2988
	<u>Contact</u>	<u>Recorders</u>	<u>Permits</u>							
45-6-1698	Georges Head 1	AGD	56	339000	6254490	Closed site	Valid	Shell : -, Artefact : -	Midden,Shelter with Deposit	1293,2025,2988
	<u>Contact</u>	<u>Recorders</u>	<u>Permits</u>							
45-6-1701	Little Sirius Cove Midden;	AGD	56	336837	6253788	Closed site	Valid	Artefact : -, Shell : -	Midden,Shelter with Deposit	1293,2025
	<u>Contact</u>	<u>Recorders</u>	<u>Permits</u>							
45-6-1702	Sirius Park Midden;	AGD	56	336850	6253973	Open site	Valid	Artefact : -, Shell : -	Midden,Open Camp Site	1293,1809,2025
	<u>Contact</u>	<u>Recorders</u>	<u>Permits</u>							

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : TarongaZoo_RACC/Hospital

Client Service ID : 566678

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
45-6-0028	Taylor's Bay;Chowder Head;	AGD	56	337900	6253700	Open site	Valid	Art (Pigment or Engraved) : -	Rock Engraving	2025
	<u>Contact</u>							<u>Permits</u>		
45-6-2080	Cremorne Pt 2	GDA	56	336374	6253380	Open site	Valid	Artefact : -, Shell : -	Midden,Open Camp Site	1809
	<u>Contact</u>							<u>Permits</u>		
45-6-2934	Yurong Cave	GDA	56	335595	6251900	Closed site	Valid	Art (Pigment or Engraved) : -		102763
	<u>Contact</u>							<u>Permits</u>		
45-6-2935	Yurong 1	GDA	56	335555	6252020	Open site	Valid	Shell : 6		
	<u>Contact</u>							<u>Permits</u>		
45-6-2807	Bradleys Head East 1	AGD	56	337739	6253143	Open site	Valid	Habitation Structure : 1, Shell : 1		
	<u>Contact</u> T Russell							<u>Permits</u>		
45-6-2808	Bradleys Head East 2	AGD	56	337794	6253270	Open site	Valid	Habitation Structure : 1, Shell : 1		
	<u>Contact</u> T Russell							<u>Permits</u>		
45-6-2812	Fire Trail PAD 1	AGD	56	338710	6254995	Open site	Valid	Potential Archaeological Deposit (PAD) : 1		
	<u>Contact</u> T Russell							<u>Permits</u>		
45-6-2813	GH 2	AGD	56	338850	6254284	Open site	Valid	Potential Archaeological Deposit (PAD) : 1		
	<u>Contact</u> T Russell							<u>Permits</u>		
45-6-2814	Fire Trail PAD 2	AGD	56	338690	6255025	Open site	Valid	Potential Archaeological Deposit (PAD) : 1		
	<u>Contact</u> T Russell							<u>Permits</u>		
45-6-2816	Little Fish Park Midden	AGD	56	336858	6254073	Open site	Valid	Habitation Structure : 1, Shell : 1		
	<u>Contact</u> T Russell							<u>Permits</u>		
45-6-2818	Chowder Head 4	AGD	56	338300	6253800	Open site	Valid	Habitation Structure : 1, Earth Mound : 1		
	<u>Contact</u> S Scanlon							<u>Permits</u>		
45-6-2819	Chowder Head 5	AGD	56	338266	6253757	Open site	Valid	Habitation Structure : 1, Earth Mound : 1		
	<u>Contact</u> S Scanlon							<u>Permits</u>		
45-6-2820	Chowder Head 6	AGD	56	338231	6253853	Open site	Valid	Habitation Structure : 1		

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : TarongaZoo_RACC/Hospital

Client Service ID : 566678

<u>SiteID</u>	<u>SiteName</u>	<u>Datum</u>	<u>Zone</u>	<u>Easting</u>	<u>Northing</u>	<u>Context</u>	<u>Site Status</u>	<u>SiteFeatures</u>	<u>SiteTypes</u>	<u>Reports</u>
	<u>Contact</u>								<u>Permits</u>	
	S Scanlon									
		<u>Recorders</u>								
		Matthew Kelleher								

Report generated by AHIMS Web Service on 09/02/2021 for Meggan Walker for the following area at Datum :GDA, Zone : 56, Eastings : 335270 - 339270, Northings : 6251829 - 6255829 with a Buffer of 0 meters. Additional Info : ACHA. Number of Aboriginal sites and Aboriginal objects found is 79

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

APPENDIX B

CONSULTATION DOCUMENTS

Search National Native Title Register

The National Native Title Register (NNTR) is a register established under s. 192 of the *Native Title Act 1993* (Cth).

The NNTR contains determinations of native title made by:

- the High Court of Australia
- the Federal Court of Australia
- or a recognised body such as South Australia's Supreme Court and Environment Resources and Development Court.

Further [information about the NNTR](#) is available.

Tribunal file no.	
Federal Court file no.	
Short name	
Case name	
State or Territory	ALL
Registered Native Title Body Corporate*	
Representative A/TSI body area	
Local government area	Mosman Municipal Council
Determination type	ALL
Legal process	ALL
Determination outcome	ALL
Determination date between	and
Sort by	Determination date

[Search >](#)

*Please note: current contact details for the Registered Native Title Body Corporate are available from the Office of the Registrar of Indigenous Corporations www.oric.gov.au

No results for current search criteria

Search Register of Native Title Claims

The Register of Native Title Claims (RNTC) contains information about all claimant applications that have been registered. The Registrar is responsible for maintaining the RNTC.

Further [information about the RNTC](#) is available.

Tribunal file no.	
Federal Court file no.	
Application name	
State or Territory	ALL
Representative A/TSI body area	
Local government area	Mosman Municipal Council
Date filed between	and
Sort by	Date filed

[Search >](#)

No results for current search criteria

Request for Search of Tribunal Registers

Search for overlapping interests i.e.: Is there a native title claim, determination or land use agreement over this land?

Please note: the NNTT cannot search over freehold land.

For further information on freehold land: [Click Here](#) (NNTT website)

1. Your details

NAME:	Meggan Walker
POSITION:	Consultant
COMPANY/ORGANISATION:	Urbis
POSTAL ADDRESS:	Level 8, 123 Pitt Street, Sydney, NSW, 2000
TELEPHONE:	
EMAIL:	Mwalker@urbis.com.au
YOUR REFERENCE:	P0031209
DATE OF REQUEST:	3/02/2021

2. Reason for your request

Are you a party to a native title proceeding?

☐ Yes ☒ No

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

OR

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:

Archaeological assessment

3. Identify the area to be searched

If there is insufficient room below, please send more information on a Word or Excel document.

Mining tenure

State/Territory: _____
Tenement ref/s: _____

OR

Crown land / non-freehold tenure

Tenure type:	☒ Lease ☐ Reserve or other Crown land
State/Territory:	New South Wales
Lot and plan details:	Lot 22 DP 843294
Pastoral Lease number or name:	
Other details: (Town/County/Parish/Section/Hundred/Portion):	Mosman/Cumberland/Willoughby

Email completed form to: GeospatialSearch@nntt.gov.au

Meggan Walker

From: Geospatial Search Requests <GeospatialSearch@NNTT.gov.au>
Sent: Thursday, 4 February 2021 4:36 PM
To: Meggan Walker
Cc: Balazs Hansel; Andrew Crisp
Subject: RE: SR21/126 - Native Title Search - Taronga Zoo Reptile and Amphibian Conservation Centre (P0031209) - SR21/126

Follow Up Flag: Follow up
Flag Status: Flagged

UNCLASSIFIED

Native title search – NSW Parcel – Lot 22 on DP843594
Your ref: P0031209 - Our ref: SR21/126

Dear Meggan Walker ,

Thank you for your search request received on 03 February 2021 in relation to the above area. Based on the records held by the National Native Title Tribunal as at 04 February 2021 it would appear that there are no Native Title Determination Applications, Determinations of Native Title, or Indigenous Land Use Agreements over the identified area.

Search Results

The results provided are based on the information you supplied and are derived from a search of the following Tribunal databases:

- Schedule of Native Title Determination Applications
- Register of Native Title Claims
- Native Title Determinations
- Indigenous Land Use Agreements (Registered and notified)

At the time this search was carried out, there were no relevant entries in the above databases.

Cadastral Data as at: 01/07/2020

Parcel ID	Feature Area SqKm	Tenure	NNTT file number	Name	Category	Pe
22//DP843294	0.2809	FREEHOLD	No overlap			

For more information about the Tribunal's registers or to search the registers yourself and obtain copies of relevant register extracts, please visit our [website](#).

Information on native title claims and freehold land can also be found on the Tribunal's website here: [Native title claims and freehold land](#).

Please note: There may be a delay between a native title determination application being lodged in the Federal Court and its transfer to the Tribunal. As a result, some native title determination applications recently filed with the Federal Court may not appear on the Tribunal's databases.

The search results are based on analysis against external boundaries of applications only. Native title applications commonly contain exclusions clauses which remove areas from within the external boundary. To determine whether the areas described are in fact subject to claim, you need to refer to the "Area covered by claim" section of the relevant Register Extract or Schedule Extract and any maps attached.

Search results and the existence of native title

Please note that the enclosed information from the Register of Native Title Claims and/or the Schedule of Applications is **not** confirmation of the existence of native title in this area. This cannot be confirmed until the Federal Court makes a determination that native title does or does not exist in relation to the area. Such determinations are registered on the National Native Title Register.

The Tribunal accepts no liability for reliance placed on enclosed information

The enclosed information has been provided in good faith. Use of this information is at your sole risk. The National Native Title Tribunal makes no representation, either express or implied, as to the accuracy or suitability of the information enclosed for any particular purpose and accepts no liability for use of the information or reliance placed on it.

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 | www.nntt.gov.au

From: Meggan Walker <mwalker@urbis.com.au>

Sent: Wednesday, 3 February 2021 7:13 AM

To: Geospatial Search Requests <GeospatialSearch@NNTT.gov.au>

Cc: Balazs Hansel <bhansel@urbis.com.au>; Andrew Crisp <acrisp@urbis.com.au>

Subject: SR21/126 - Native Title Search - Taronga Zoo Reptile and Amphibian Conservation Centre (P0031209)

Caution: This is an external email. DO NOT click links or open attachments unless you recognise the sender and know the content is safe.

Hello all,

Please see attached search request form for a search of the Native Title Tribunal registers for Taronga Zoo, Lot 22 DP 843294.

Kind regards,

MEGGAN WALKER
CONSULTANT

D +61 2 8233 7626

T +61 2 8233 9900

E mwalker@urbis.com.au



ANGEL PLACE, LEVEL 8, 123 PITT STREET
SYDNEY, NSW 2000, AUSTRALIA

Urbis recognises the traditional owners of the land on which we work.
Learn more about our [Reconciliation Action Plan](#).

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Meggan Walker

From: Meggan Walker
Sent: Tuesday, 9 February 2021 1:25 PM
To: Balazs Hansel
Cc: Andrew Crisp; Alexandra Ribeny
Subject: Stage 1.2 Agency Letter - Taronga Zoo Reptile and Amphibian Conservation Centre (Our Ref P0031209)
Attachments: P0031209_TarongaZoo_Stage1.2AgencyLetter_RACC_FNL.pdf

Tracking:	Recipient	Delivery
	Balazs Hansel	Delivered: 9/02/2021 1:26 PM
	Andrew Crisp	Delivered: 9/02/2021 1:26 PM
	Alexandra Ribeny	Delivered: 9/02/2021 1:26 PM
	Local Land Services Greater Sydney (gs.service@lls.nsw.gov.au)	
	metrolalc@metrolalc.org.au	
	'information@ntscorp.com.au'	
	OEHD Heritage Mailbox	
	Office of the REgstrar Aboriginal Land Rights Act 1983 NSW (adminofficer@oralra.nsw.gov.au)	
	'council@mosman.nsw.gov.au'	

Dear all,

Please see the attached Stage 1.2 Agency Letter for our project at Taronga Zoo, 2A Bradleys Head Road, Mosman for the development of Reptile and Amphibian Conservation Centre.

Please let us know if you have any questions, and provide any responses as soon as possible and preferably before 16th February 2021.

Kind regards,

MEGGAN WALKER
CONSULTANT

D +61 2 8233 7626
T +61 2 8233 9900
E mwalker@urbis.com.au

**SHAPING
CITIES AND
COMMUNITIES**



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SYDNEY, NSW 2000, AUSTRALIA

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**ANGEL PLACE
LEVEL 8, 123 PITT STREET
SYDNEY NSW 2000**

URBIS.COM.AU
Urbis Pty Ltd
ABN 50 105 256 228

9 February 2021

To whom it may concern,

TARONGA ZOO – REPTILE AND AMPHIBIAN CONSERVATION CENTRE (RACC) SSDA - ABORIGINAL CULTURAL HERITAGE ASSESSMENT – ABORIGINAL COMMUNITY CONSULTATION STAGE 1

Urbis has been commissioned by the Taronga Conservation Society Australia (the Proponent) to conduct an Aboriginal Cultural Heritage Assessment (ACHA) for the development of a Reptile and Amphibian Conservation Centre within the grounds of Taronga Zoo, Lot 22 DP843294, Mosman, New South Wales.

This project is to be submitted to the Department of Planning, Industry and Environment as a State Significant Development Application (SSDA). The ACHA process is being commenced prior to the receipt of the Secretary's Environmental Assessment Requirements (SEARs) due to strict timeframes, however it is anticipated that the SEARs will require an ACHA to form part of the Environmental Impact Statement (EIS) for this project.

The ACHA is to be carried out in accordance with relevant guidelines under *the National Parks and Wildlife Act 1974* (NPW Act), including *the Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW* (OEH 2011). The assessment would detail the nature, location and spatial extent of any potential Aboriginal cultural heritage resources within the subject area, investigate if the proposed development would harm those resources and provide recommendations for management options.

The Proponent can be contacted via:

Paul De Alwis
Project Manager, Corporate Services and Governance
Taronga Conservation Society Australia

[REDACTED]
[REDACTED]

Or

Matthew Spooner
Senior Project Manager, Corporate Services and Governance
Taronga Conservation Society Australia

[REDACTED]
[REDACTED]

In accordance with the *Aboriginal cultural heritage consultation requirements for proponents (DEECW 2010)* (the Consultation Requirements) and Clause 80C of the NSW National Parks and Wildlife Regulation 2009, the Proponent will conduct an Aboriginal community consultation process with



registered Aboriginal people to assist with the preparation of the ACHA to identify any Aboriginal cultural heritage values or archaeological materials and mitigate risk of harm.

In accordance with Section 4.1.2 of the Consultation Requirements, Urbis proposes to compile a list of Aboriginal people and organisations who may hold cultural knowledge relevant to determining the significance of Aboriginal objects and/or places that may exist within the subject area.

Should you be aware of any Aboriginal persons and/or organisations that may hold an interest in the project, please provide their details at your earliest convenience and preferably by **16th February 2021** in writing to:

Meggan Walker
Urbis
Consultant
mwalker@urbis.com.au
Level 8, 123 Pitt Street, Sydney, 2000.

The proponent will write to each Aboriginal person or group whose details are provided to notify them of the proposed project and invite them to register an interest in the community consultation process.

Please be advised that, as per the Consultation Requirements, the Proponent is required to forward the names of Aboriginal persons and groups who register an interest (Registered Aboriginal Parties) to the Local Aboriginal Land Council and Department of Premier and Cabinet Aboriginal Branch unless the person or group specifies that they do not want their details released.

Please do not hesitate to contact us should you have any queries in relation to the provided information.

Yours sincerely,

A handwritten signature in blue ink, appearing to read "M. Walker", with a stylized flourish at the end.

Meggan Walker
Consultant
+61 2 8233 7626
mwalker@urbis.com.au

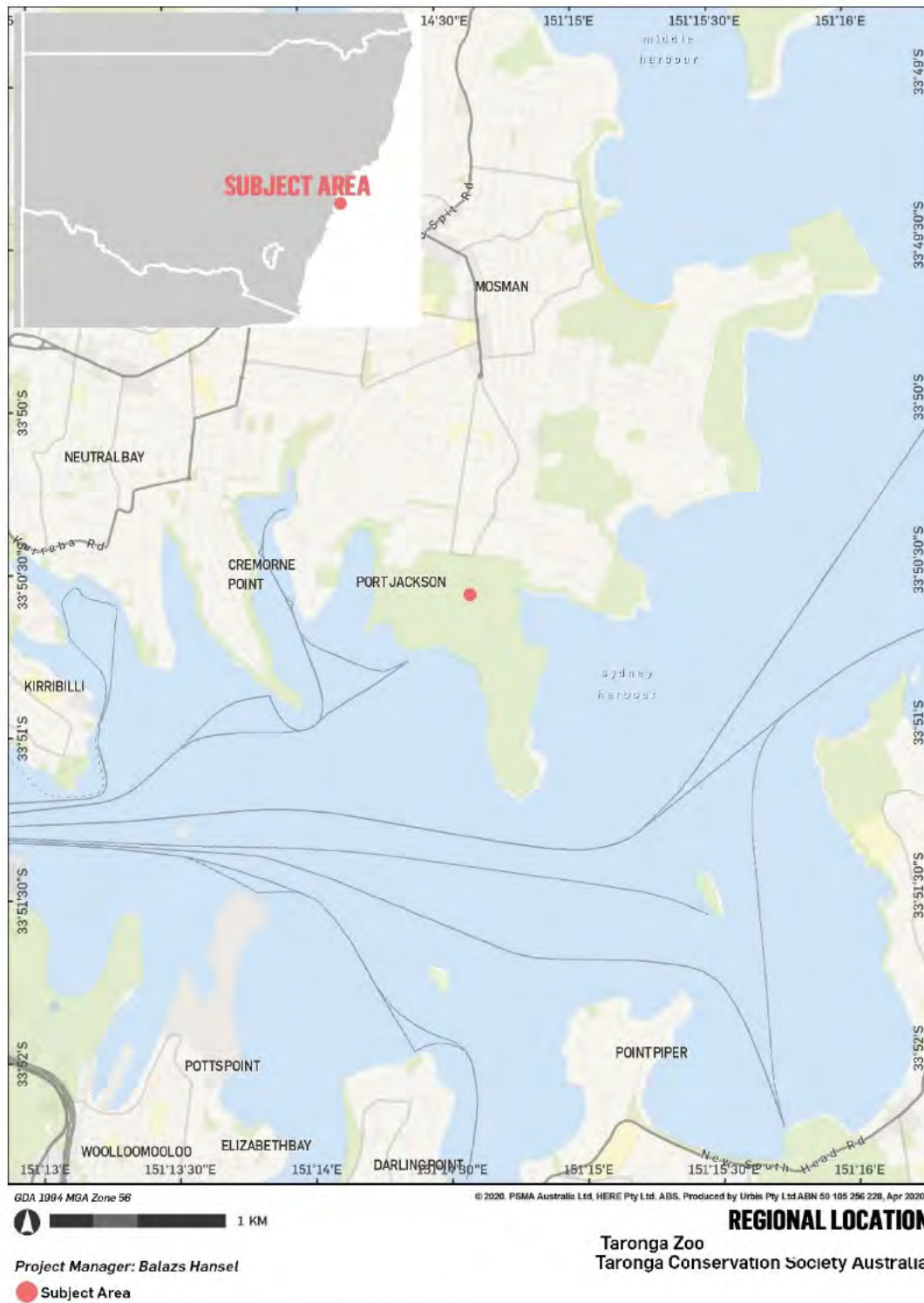


Figure 1 – Regional Location of the Subject Area

Meggan Walker

From: Rachel Rewiri <rachel.rewiri3@oralra.nsw.gov.au>
Sent: Wednesday, 10 February 2021 12:16 PM
To: Meggan Walker
Subject: RE: Taronga Zoo - Reptile and Amphibian Conservation Centre (Ref: P0031209) & Wildlife Hospital (Ref: P0031212)
Attachments: Urbis Pty Ltd - Reply Letter 10022021.pdf; Urbis Pty Ltd - Reply Letter 10022021.pdf
Follow Up Flag: Follow up
Flag Status: Flagged

Good Afternoon Meggan,

Please find attached, results as per your Aboriginal Cultural Heritage Assessment request.

Regards

Rachel Rewiri
Project Officer (Aboriginal Owners)
Office of the Registrar, *Aboriginal Land Rights Act 1983*

Ph: 8633 1266
www.oralra.nsw.gov.au

This message is intended for the addressee named and may contain
privileged information or confidential information or both. If you
are not the intended recipient please delete it and notify the sender.

10 February 2021

By email: mwalker@urbis.com.au

Meggan Walker
Urbis Pty Ltd
Level 8, 123 Pitt Street
SYDNEY NSW 2000

Dear Meggan,

Request - Search for Registered Aboriginal Owners

We refer to your email dated 09 February 2021 seeking the identification of Aboriginal organisations and people who may have an interest in the proposed Reptile and Amphibian Conservation Centre within the grounds of Taronga Zoo, Mosman NSW.

Under Section 170 of the Aboriginal Land Rights Act 1983 the Office of the Registrar is required to maintain the Register of Aboriginal Owners (RAO). A search of the RAO has shown that there are currently no Registered Aboriginal Owners in the project area.

We suggest you contact the Metropolitan Local Aboriginal Land Council on (02) 8394 9666 or via email nmoran@metrolalc.org.au as they may wish to participate.

Yours sincerely



Rachel Rewiri
Project Officer
Office of the Registrar, Aboriginal Land Rights Act 1983

Meggan Walker

From: Paul Houston <Paul.Houston@environment.nsw.gov.au>
Sent: Thursday, 18 February 2021 9:52 PM
To: Meggan Walker
Subject: RAP letters for Taronga Zoo Projects
Attachments: DOC21-85551-1 Taronga Zoo Wildlife Reptile and Amphibian Conservation Centre Mosman.pdf; DOC21-85549-1 Taronga Zoo Wildlife Hospital Mosman.pdf

Importance: High

Follow Up Flag: Flag for follow up
Flag Status: Flagged

Meggan

Please see attached RAP letters for the 2 Taronga Zoo projects.

If you have any questions please contact me.

Thanxs
Paul

Paul Houston, Aboriginal Heritage Planning Officer
Heritage NSW, Community Engagement, Department of Premier and Cabinet

Please lodge all Applications to Heritagemailbox@environment.nsw.gov.au

I acknowledge and respect the traditional custodians and ancestors of the lands I work across.

Heritage NSW and coronavirus (COVID-19)

Heritage NSW has taken steps to protect the safety, health and wellbeing of our staff, communities and customers. Whilst our offices remain open, we have put in place flexible working arrangements for our teams across NSW and continue to adapt our working arrangements as necessary. Face-to-face meetings and field work/site visits with our customers are subject to rules on gatherings and social distancing measures. We thank you for your patience and understanding at this time.

This email is intended for the addressee(s) named and may contain confidential and/or privileged information. If you are not the intended recipient, please notify the sender and then delete it immediately. Any views expressed in this email are those of the individual sender except where the sender expressly and with authority states them to be the views of the NSW Office of Environment and Heritage.

PLEASE CONSIDER THE ENVIRONMENT BEFORE PRINTING THIS EMAIL

Meggan Walker
Urbis
Level 8, 123 Pitt Sydney
SYDNEY NSW 2000
mwalker@urbis.com.au

RE: Request for information on Aboriginal stakeholders for an Aboriginal cultural heritage assessment of the proposed “Taronga Zoo – Reptile and Amphibian Conservation Centre, Mosman, NSW”

Dear Meggan,

Thank you for your letter of 9 February 2021 about Aboriginal cultural heritage consultation for a “Taronga Zoo – Reptile and Amphibian Conservation Centre, Mosman, NSW”, within the Mosman local government area. I appreciate the opportunity to provide input.

Please find enclosed a list of known Aboriginal parties for the Mosman local government area (Attachment 1) that we consider likely to have an interest in the proposal. Note this is not an exhaustive list of all interested Aboriginal parties. Receipt of this list does not remove the requirement for a proponent/consultant to advertise the proposal in the local print media and contact other bodies and community groups seeking interested Aboriginal parties, in accordance with the ‘*Aboriginal cultural heritage consultation requirements for proponents 2010*’ (the CRs).

We would also like to take this opportunity to remind the proponent and consultant to:

- Ensure that consultation is fair, equitable and transparent. If the Aboriginal parties express concern or are opposed to parts of or the entire project, we expect that evidence will be provided to demonstrate the efforts made to find common ground between the opponents and the proponent.

If you have any questions about this advice, please do not hesitate to contact me via paul.houston@environment.nsw.gov.au or 02 68835361.

Yours sincerely



Paul Houston
Aboriginal Heritage Planning Officer
Aboriginal Cultural Heritage Regulation - Northern
Heritage NSW
Department of Premier and Cabinet
18 February 2021

ATTACHMENT A

Table 1: List of Aboriginal stakeholder groups within the Mosman LGA. - that may have an interest in the project; provided as per the “OEH Aboriginal cultural heritage requirement for proponents 2010”.

Mosman Local Government Area

Organisation/ Individual	Contact Name	Email Address/ Fax / Phone	Postal Address	Additional information
Metropolitan Local Aboriginal Land Council	Nathan Moran			
Darug Aboriginal Cultural Heritage Assessments	Gordon Morton			
Darug Land Observations	Jamie Workman and Anna Workman			
A1 Indigenous Services	Carolyn Hickey			

Eric Keidge	Eric Keidge
Kamilaroi Yankuntjatjara Working Group	Phil Khan
Tocomwall	Scott Franks
Amanda Hickey Cultural Services	Amanda Hickey
Gunyuu	Kylie Ann Bell
Walbunja	Hika Te Kowhai
Badu	Karia Lea Bond
Goobah Developments	Basil Smith
Wullung	Lee-Roy James Boota
Yerramurra	Robert Parson
Nundagurri	Newton Carriage
Murrumbul	Mark Henry
Jerringong	Joanne Anne Stewart
Pemulwuy CHTS	Pemulwuy Johnson
Bilinga	Simalene Carriage
Munyunga	Kaya Dawn Bell
Wingikara	Hayley Bell
Minnamunnung	Aaron Broad
Walgalu	Ronald Stewart
Thauaira	Shane Carriage
Dharug	Andrew Bond
Gulaga	Wendy Smith
Biamanga	Seli Storer



Callendulla	Corey Smith
Murramarang	Roxanne Smith
DJMD Consultancy	Darren Duncan
Butucarbin Aboriginal Corporation	Jennifer Beale
Didge Ngunawal Clan	Lillie Carroll Paul Boyd
Ginninderra Aboriginal Corporation	Steven Johnson and Krystle Carroll
Wailwan Aboriginal Group	Philip Boney
Barking Owl Aboriginal Corporation	Mrs Jody Kulakowski (Director)
Thoorga Nura	John Carriage (Chief Executive Officer)
Darug Boorooberongal Elders Aboriginal Corporation	Paul Hand (chairperson)
B.H. Heritage Consultants	Ralph Hampton Nola Hampton
Ngambaa Cultural Connections	Kaarina Slater
Goodradigbee Cultural & Heritage Aboriginal Corporation,	Caine Carroll
Mura Indigenous Corporation,	Phillip Carroll
Aragung Aboriginal Cultural Heritage Site Assessments	Jamie Eastwood
Waawaar Awaa Aboriginal Corporation	Rodney Gunther
Wori Woilywa	Daniel Chalker

--	--	--	--	--

Meggan Walker

From: Meggan Walker
Sent: Monday, 22 February 2021 4:48 PM
To: Balazs Hansel
Cc: Andrew Crisp
Subject: Invitation to register - Taronga Zoo Reptile and Amphibian Conservation Centre ACHA - Our Ref P0031209
Attachments: P0031209_TarongaRACC_Stage1.3Invitation_FNL.pdf

Tracking:	Recipient	Delivery
	Balazs Hansel	Delivered: 22/02/2021 4:49 PM
	Andrew Crisp	Delivered: 22/02/2021 4:49 PM
	nmoran@metrolalc.org.au	
	daruglandobservations@gmail.com	
	cazadirect@live.com	
	philip khan	
	scott@tocomwall.com.au	
	amandahickey@live.com.au	
	Gunyuuchts@gmail.com	
	Walbunja@gmail.com	
	baduchts@gmail.com	
	goobahchts@gmail.com	
	yerramurra@gmail.com	
	nundagurri@gmail.com	
	Murrumbul@gmail.com	
	jerringong@gmail.com	
	pemulwuyd@gmail.com	
	bilingachts@gmail.com	
	munyungachts@gmail.com	
	wingicarachts@gmail.com	
	minnamunnung@gmail.com	
	walgaluchts@gmail.com	
	thauairachts@gmail.com	
	dharugchts@gmail.com	
	gulagachts@gmail.com	
	biamangachts@gmail.com	
	cullendullachts@gmail.com	
	murramarangchts@gmail.com	
	darrenjohnduncan@gmail.com	
	butuheritage@gmail.com	
	didgengunawalclan@yahoo.com.au	
	ginninderra.corp@gmail.com	
	waarlan12@outlook.com	
	barkingowlcorp@gmail.com	
	thoorganura@gmail.com	

Recipient**Delivery**

boorooberongal@outlook.com
ngambaaculturalconnections@hotmail.com
goodradigbee1@outlook.com
mura.indigenous@bigpond.com
james.eastwood@y7mail.com
hamptonralph46@gmail.com
nhampton77@gmail.com
waawaar.awaa@gmail.com
woriwooliywa@gmail.com

Dear all,

Please see the attached invitation to register interest for an ACHA currently being prepared by Urbis for Taronga Conservation Society Australia for the proposed development of a Reptile and Amphibian Conservation Centre (RACC) at Taronga Zoo, Mosman, NSW .

Please register your interest, preferably by response email, by **5pm 10th March 2021**.

The attached letter is reproduced below.

Kind regards,
Meggan

MEGGAN WALKER
CONSULTANT

D +61 2 8233 7626
T +61 2 8233 9900
E mwalker@urbis.com.au

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CITIES AND
COMMUNITIES**



ANGEL PLACE, LEVEL 8, 123 PITT STREET
SYDNEY, NSW 2000, AUSTRALIA

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**ANGEL PLACE
LEVEL 8, 123 PITT STREET
SYDNEY NSW 2000**

URBIS.COM.AU
Urbis Pty Ltd
ABN 50 105 256 228

22 February 2021

To whom it may concern ,

TARONGA ZOO REPTILE AND AMPHIBIAN CONSERVATION CENTRE - ABORIGINAL CULTURAL HERITAGE ASSESSMENT – ABORIGINAL COMMUNITY CONSULTATION STAGE 1 - INVITATION TO REGISTER

Please be advised that your contact details have been provided by The Aboriginal Cultural Heritage Regulation Branch- Heritage NSW - Department of Premier and Cabinet in accordance with Section 4.1.2 of the *Aboriginal cultural heritage consultation requirements for proponents* (DECCW, 2010) (hereafter referred as the Consultation Requirements) as a potential Aboriginal stakeholder who may have interest in registering to the abovementioned project.

Urbis has been commissioned by Taronga Conservation Society Australia (the Proponent) to conduct an Aboriginal Cultural Heritage Assessment (ACHA) for Taronga Zoo, Bradleys Head Road, Mosman, Lot 22 DP 843294, NSW (hereafter referred to as 'the subject area') (see attached figure). This is in relation to the establishment of a Reptile and Amphibian Conservation Centre within the grounds of the zoo.

This project is to be submitted to the Department of Planning, Industry and Environment (DPIE) as a State Significant Development Application (SSDA). The ACHA process is being commenced prior to the receipt of the Secretary's Environmental Assessment Requirements (SEARs) due to strict timeframes, however it is anticipated that the SEARs will require an ACHA to form part of the Environmental Impact Statement (EIS) for this project.

The ACHA is to be carried out in accordance with relevant guidelines under *the National Parks and Wildlife Act 1974* (NPW Act), including *the Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW* (OEH 2011). The assessment would detail any potential Aboriginal cultural heritage resources within the subject area and provide recommendations regarding management of those resources.

The Proponent can be contacted via:

Paul De Alwis
Project Manager, Corporate Services and Governance
Taronga Conservation Society Australia
[REDACTED]
[REDACTED]

OR

Matthew Spooner
Senior project Manager, Corporate Services and Governance
Taronga Conservation Society Australia
[REDACTED]
[REDACTED]



In accordance with the Consultation Requirements and Clause 80C of the *NSW National Parks and Wildlife Regulation 2009*, the Proponent will conduct a community consultation process with registered Aboriginal people to assist with the preparation of the ACHA.

In accordance with Section 4.1.2 of the Consultation Requirements Urbis proposes to invite Aboriginal people and/or organisations who may hold cultural knowledge relevant to determining the significance of Aboriginal objects and/or places that may exist within the subject area.

Should you wish to register your interest in this project, please respond in writing by clearly stating your interest and nominating a contact person by **10th March 2021**. Please send responses to the following:

Meggan Walker
Urbis
Consultant
mwalker@urbis.com.au
02 8233 7626
Level 8, 123 Pitt Street, Sydney, 2000.

Please be advised that, as per the Consultation Requirements, the Proponent is required to forward the names of Aboriginal persons and groups who register an interest (Registered Aboriginal Parties) to the Metropolitan Local Aboriginal Land Council and Department of Planning, Industry and Environment, unless the person or group specifies that they do not want their details released.

Please be advised that in accordance to Section 3.4 of the Consultation Requirements, inclusion in the consultation process does not automatically result in paid site assessment. The decision on who is engaged for delivering particular services is decided by the proponent and will be based on a range of considerations including skills, relevant experience, and providing necessary certificates of currency.

Please do not hesitate to contact us should you have any queries in relation to the provided information.

Yours sincerely,

A handwritten signature in blue ink, appearing to read "M Walker", with a stylized flourish at the end.

Meggan Walker
Consultant
+61 2 8233 7626
mwalker@urbis.com.au



Figure 1 – Regional Location of the Subject Area

Respects paid to young warrior, taken too soon



WAKA Waka man Dennis Lacey passed away on the Larrakia Homelands in Darwin this month, aged 30.

Friends and family turned to social media to share their thoughts, photos and tributes.

His mother LeeAnne Lacey shared pictures of her son's life and a heartfelt plea.

"To all my sisters, Aunts, Uncles, grandparents and especially mothers who have lost warriors.

"Brothers and sisters who have lost a loved one to Australia, the Parliament and their System we are governed by.

"My Heart, what I've got left goes out to you.

"I'm in deep pain.

"I'm shattered. I will come back fighting.

"My son Dennis Lacey, Wirri Wirri Tjapiltjarri Tjullyarimma Shadow of the Rainbow MorningStar, is a victim of the system, as are all of those who are incarcerated."

His Uncle Klaus Jeffrey also shared his loss.

"Gonna miss you my Neph. Had some good drinks with you and good laughs. Still

can't believe what happened," he said.

Friend Erwin Tjakamarra Seemann said he would miss Dennis terribly.

"I learned painfully about the death of my Bunji Wirri Wirri Tjapiltjarri Tjullyarimma Shadow of the Rainbow MorningStar Dennis Lacey," he said.

"I live in Germany, but I still have an intimate relationship with my large family in Australia and that's why it feels to me that another piece has been torn from my heart. Farewell my beloved Bunji. I will never forget you and I hope that the spirits of our ancestors will receive you with love and take you in. We, your siblings Michael and Warren Tjapiltjarri Tjullyarimma, Kim and Jessica Napiltjarri and I thank you for your stay in this world, which has enriched our lives with your love and care.

"Farewell my Brother."

The family has asked for assistance in organising the funeral. Details can be found on the Facebook page Dennis Lacey Foundation for the Homeless.

"Please join the group and make human rights law in his honour, for all the fallen warriors and his brothers in arms," LeeAnne said.



Dennis Bradley Lacey. June 1, 1990 – February 6, 2021.



Jessica Johnson, Dennis Lacey and their daughter Yavana.



Taronga Zoo Reptile and Amphibian Conservation Centre NSW Aboriginal Cultural Heritage Assessment – Community Consultation Stage 1

The Taronga Conservation Society Australia (the Proponent) are preparing a State Significant Development Application (SSDA) for the proposed development of a Reptile and Amphibian Conservation Centre within the grounds of Taronga Zoo Bradleys Head Road Mosman Lot 22 DP 843294 NSW Urbis is assisting the Proponent in undertaking an Aboriginal Cultural Heritage Assessment (ACHA) to inform the Environmental Impact Statement for the SSDA

The proponent can be contacted directly via:

Paul De Alwis Project Manager
Corporate Services and Governance
Taronga Conservation Society Australia
02 9978 4527
Pedalwis@zoo.nsw.gov.au

Or

Matthew Spooner Senior
Project Manager Corporate Services and Governance
Taronga Conservation Society Australia
02 9978 4708
mspooner@zoo.nsw.gov.au

In accordance with Section 4.1.3 of the *Aboriginal Cultural Heritage Consultation Requirements for Proponents (DECCW, 2010)* and Clause 80C of the *NSW National Parks and Wildlife Regulation 2009* the Proponent is seeking the registration of Aboriginal persons or groups who may hold cultural knowledge relevant to determining the significance of Aboriginal object(s) and/or place(s) that may be present in the subject area

The purpose of community consultation with Aboriginal people is to assist the Proponent in the preparation of the ACHA and the assessment of the cultural heritage significance of the subject area

Please register your interest in writing to the contact details provided below by 5.00pm 10th March 2021.

Meggan Walker
Urbis Consultant
mwalker@urbis.com.au
02 8233 7626
Level 8 123 Pitt Street Sydney 2000

Please be advised that the Proponent is required to forward the names of Aboriginal persons and groups who register an interest to The Aboriginal Cultural Heritage Regulation Branch Heritage NSW Department of Premier and Cabinet and the Metropolitan Local Aboriginal Land Council; unless the person or group specifies that they do not want their details released



Taronga Wildlife Hospital NSW Aboriginal Cultural Heritage Assessment – Community Consultation Stage 1

The Taronga Conservation Society Australia (the Proponent) are preparing a State Significant Development Application (SSDA) for the proposed development of a Wildlife Hospital within the grounds of Taronga Zoo Bradleys Head Road Mosman Lot 22 DP 843294 NSW Urbis is assisting the Proponent in undertaking an Aboriginal Cultural Heritage Assessment (ACHA) to inform the Environmental Impact Statement for the SSDA

The proponent can be contacted directly via:

Paul De Alwis Project Manager
Corporate Services and Governance
Taronga Conservation Society Australia
02 9978 4527
Pedalwis@zoo.nsw.gov.au

Or

Matthew Spooner Senior
Project Manager Corporate Services and Governance
Taronga Conservation Society Australia
02 9978 4708
mspooner@zoo.nsw.gov.au

In accordance with Section 4.1.3 of the *Aboriginal Cultural Heritage Consultation Requirements for Proponents (DECCW, 2010)* and Clause 80C of the *NSW National Parks and Wildlife Regulation 2009* the Proponent is seeking the registration of Aboriginal persons or groups who may hold cultural knowledge relevant to determining the significance of Aboriginal object(s) and/or place(s) that may be present in the subject area

The purpose of community consultation with Aboriginal people is to assist the Proponent in the preparation of the ACHA and the assessment of the cultural heritage significance of the subject area

Please register your interest in writing to the contact details provided below by 5.00pm 10th March 2021.

Meggan Walker
Urbis Consultant
mwalker@urbis.com.au
02 8233 7626
Level 8 123 Pitt Street Sydney 2000

Please be advised that the Proponent is required to forward the names of Aboriginal persons and groups who register an interest to The Aboriginal Cultural Heritage Regulation Branch Heritage NSW Department of Premier and Cabinet and the Metropolitan Local Aboriginal Land Council; unless the person or group specifies that they do not want their details released

Meggan Walker

From: Carolyn .H <cazadirect@live.com>
Sent: Sunday, 14 March 2021 10:28 PM
To: Meggan Walker
Subject: Re: Invitation to register - Taronga Zoo Wildlife Hospital ACHA - Our Ref P0031212

Hi Meggan,
Please register me for both projects.
Kind Regards
Carolyn Hickey

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From: Meggan Walker <mwalker@urbis.com.au>
Sent: Thursday, March 4, 2021 4:19:31 PM
To: Caza X <cazadirect@live.com>
Subject: RE: Invitation to register - Taronga Zoo Wildlife Hospital ACHA - Our Ref P0031212

Hi Carolyn,

Hope you're well – we were just wondering if you were intending to register for both Taronga Projects (RACC and Wildlife Hospital) Or just the hospital?

Kind regards,

MEGGAN WALKER
CONSULTANT

D +61 2 8233 7626
T +61 2 8233 9900
E mwalker@urbis.com.au

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From: Carolyn .H <cazadirect@live.com>
Sent: Monday, 22 February 2021 11:13 PM
To: Meggan Walker <mwalker@urbis.com.au>
Subject: Re: Invitation to register - Taronga Zoo Wildlife Hospital ACHA - Our Ref P0031212



INDIGENOUS SERVICES PTY LTD

Contact: Carolyn Hickey



Hi,
Thank you for your email, I would like to register in being involved in all levels of consultation for this project, such as, Meetings, Reports, Sharing Cultural Information, and available Field Work.

I've had many years' experience in helping preserve Aboriginal cultural heritage on projects, I hold cultural knowledge relevant to determining the cultural significance of Aboriginal objects and values that exist in the project area.

I have attached A1 Indigenous Services Insurances.

Please feel free to contact me on details supplied
Kind Regards,
Carolyn Hicke

From: Meggan Walker <mwalker@urbis.com.au>
Sent: Monday, 22 February 2021 4:48 PM
To: Balazs Hansel <bhansel@urbis.com.au>
Cc: Andrew Crisp <acrisp@urbis.com.au>
Subject: Invitation to register - Taronga Zoo Wildlife Hospital ACHA - Our Ref P0031212

Dear all,

Please see the attached invitation to register interest for an ACHA currently being prepared by Urbis for Taronga Conservation Society Australia for the proposed development of a wildlife hospital at Taronga Zoo, Mosman, NSW.

Please register your interest, preferably by response email, by **5pm 10th March 2021**.

The attached letter is reproduced below.

Kind regards,
Meggan Walker.

MEGGAN WALKER
CONSULTANT

D +61 2 8233 7626
T +61 2 8233 9900
E mwalker@urbis.com.au



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Meggan Walker

From: Butucarbin Heritage <butuheritage@gmail.com>
Sent: Thursday, 11 March 2021 2:23 AM
To: Meggan Walker
Subject: Re: Invitation to register - Taronga Zoo Reptile and Amphibian Conservation Centre ACHA - Our Ref P0031209

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Meggan,
On behalf of Butucarbin, I would like to register for the project in relation to the Taronga Zoo RACC.

Kind regards,

On Mon, Feb 22, 2021 at 4:48 PM Meggan Walker <mwalker@urbis.com.au> wrote:

Dear all,

Please see the attached invitation to register interest for an ACHA currently being prepared by Urbis for Taronga Conservation Society Australia for the proposed development of a Reptile and Amphibian Conservation Centre (RACC) at Taronga Zoo, Mosman, NSW .

Please register your interest, preferably by response email, by **5pm 10th March 2021**.

The attached letter is reproduced below.

Kind regards,

Meggan

MEGGAN WALKER
CONSULTANT

D +61 2 8233 7626
T +61 2 8233 9900
E mwalker@urbis.com.au

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--

Lowanna Gibson
Project Manager for Butucarbin Cultural Heritage Assessments
B.A Archaeology/Anthropology USYD
Juris Doctor Candidate UTS

Meggan Walker

From: lilly carroll <didgengunawalclan@yahoo.com.au>
Sent: Friday, 26 February 2021 5:24 PM
To: Meggan Walker
Subject: EOI's

Hi Meggan

DNC would like to register interests into Taronga zoo reptile and amphibian conservation Centre stage 1,
And also Taronga wildlife hospital New South Wales aboriginal cultural heritage assessment stage 1

Kind regards
Paul Boyd & Lilly Carroll
Directors DNC
0 [REDACTED]

Experience site offices and fully insured

[Sent from Yahoo Mail for iPhone](#)

Meggan Walker

From: Ginninderra Aboriginal Corporation <ginninderra.corp@gmail.com>
Sent: Tuesday, 23 February 2021 11:02 AM
To: Meggan Walker
Subject: Re: Invitation to register - Taronga Zoo Reptile and Amphibian Conservation Centre ACHA - Our Ref P0031209

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Meggan,

Thank you for your email.

Please register Ginninderra Aboriginal Corporation for the above mentioned project.

All of our site officers have their white cards/insurances, and have extensive experience in surveys, excavations, sieving and recording of archaeological information.

We prefer to be contacted by email on ginninderra.corp@gmail.com. The [REDACTED]
[REDACTED]

[REDACTED]

Please let me know if there is anything else you require.

Krystle :)

Kind regards,

*Krystle Carroll-Elliott
Ginninderra Aboriginal Corporation*
[REDACTED]

☐ We acknowledge the Traditional Owners of Country throughout Australia and recognise their connection to land, water, and community.
We pay our respects to them, their cultures, and to Elders past and present.

On 22 Feb 2021, at 4:48 pm, Meggan Walker <mwalker@urbis.com.au> wrote:

Dear all,

Please see the attached invitation to register interest for an ACHA currently being prepared by Urbis for Taronga Conservation Society Australia for the proposed development of a Reptile and Amphibian Conservation Centre (RACC) at Taronga Zoo, Mosman, NSW .
Please register your interest, preferably by response email, by **5pm 10th March 2021**.
The attached letter is reproduced below.
Kind regards,
Meggan

MEGGAN WALKER

CONSULTANT

<image001.gif>

D +61 2 8233 7626

T +61 2 8233 9900

E mwalker@urbis.com.au

<image002.png>

<image004.png><image006.png><image008.png><image010.png>

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<P0031209_TarongaRACC_Stage1.3Invitation_FNL.pdf>

Meggan Walker

From: Goobah <goobahchts@gmail.com>
Sent: Friday, 5 March 2021 12:08 PM
To: Meggan Walker
Subject: Re: Invitation to register - Taronga Zoo Wildlife Hospital ACHA - Our Ref P0031212

Follow Up Flag: Follow up
Flag Status: Flagged

Please accept my expression of interest with Aboriginal Cultural Heritage Assessment (ACHA) for Taronga Zoo, Bradleys Head Road, Mosman, Lot 22 DP 843294, NSW and wish to be kept in the loop of any further developments.

On Mon, Feb 22, 2021 at 4:48 PM Meggan Walker <mwalker@urbis.com.au> wrote:

Dear all,

Please see the attached invitation to register interest for an ACHA currently being prepared by Urbis for Taronga Conservation Society Australia for the proposed development of a wildlife hospital at Taronga Zoo, Mosman, NSW .

Please register your interest, preferably by response email, by **5pm 10th March 2021**.

The attached letter is reproduced below.

Kind regards,

Meggan Walker.

MEGGAN WALKER
CONSULTANT

D +61 2 8233 7626
T +61 2 8233 9900
E mwalker@urbis.com.au

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--

Regards

Basil Smith
Chairperson/CEO
GOOBAH

Contact Details:

Address:

[REDACTED]

[REDACTED]

[REDACTED]



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Meggan Walker

From: Gulaga <gulagachts@gmail.com>
Sent: Monday, 22 February 2021 5:55 PM
To: Meggan Walker
Subject: Re: Invitation to register - Taronga Zoo Reptile and Amphibian Conservation Centre ACHA - Our Ref P0031209

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Meggan,

Can you please register Gulaga for this project.

Kind Regards
Wendy Smith
Cultural Heritage Officer


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.

On Mon, Feb 22, 2021 at 4:48 PM Meggan Walker <mwalker@urbis.com.au> wrote:

Dear all,

Please see the attached invitation to register interest for an ACHA currently being prepared by Urbis for Taronga Conservation Society Australia for the proposed development of a Reptile and Amphibian Conservation Centre (RACC) at Taronga Zoo, Mosman, NSW .

Please register your interest, preferably by response email, by **5pm 10th March 2021**.

The attached letter is reproduced below.

Kind regards,

Meggan

MEGGAN WALKER
CONSULTANT

D +61 2 8233 7626
T +61 2 8233 9900
E mwalker@urbis.com.au



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Meggan Walker

From: philip khan <philipkhan.acn@live.com.au>
Sent: Tuesday, 23 February 2021 11:51 AM
To: Meggan Walker
Subject: RE: Invitation to register - Taronga Zoo Reptile and Amphibian Conservation Centre ACHA - Our Ref P0031209
Attachments: Public Liability Kamilaroi 2021 to 2022.pdf; ICARE workers comp. insurance Kamilaroi Yankuntjatjara Working Group 2021.pdf
Follow Up Flag: Follow up
Flag Status: Flagged

Hi Meggan,

Thank you for informing us that Urbis will be involved in an Aboriginal Cultural Heritage Assessment at Taronga Zoo Reptile and Amphibian Conservation Centre &, that you are inviting Aboriginal organisations to register, if they wish too be involved in the community consultation process.

As a senior Aboriginal person for the past 40yrs, I actively participate in the protection of the Aboriginal Cultural Heritage throughout the Sydney Basin, & particularly throughout Western Sydney, on behalf of Kamilaroi Yankuntjatjara Working Group I wish to provide to you my organisation's registration of interest.

I wish to be involved & participate in all levels of consultation/project involvement. I wish to attend all meetings, participate in available field work & receive a copy of the report.

I have attached a copy of Kamilaroi Yankuntjatjara Working group's Public Liability Insurance & Workers Compensation certificate.

Our Rates - [REDACTED]

Our RAPS have up to 15yrs Cultural Heritage experience in – field work which involves manual excavation (digging), sieving, identifying artefacts, setting up transits, setting up equipment, packing equipment, site surveys & attending meetings.

Should you wish me to provide further information, please do not hesitate to contact me [REDACTED] or Stefeanie on [REDACTED]

Kind Regards
Phil Khan



From: [Meggan Walker](#)

Sent: Monday, 22 February 2021 4:48 PM

To: [Balazs Hansel](#)

Cc: [Andrew Crisp](#)

Subject: Invitation to register - Taronga Zoo Reptile and Amphibian Conservation Centre ACHA - Our Ref P0031209

Dear all,

Please see the attached invitation to register interest for an ACHA currently being prepared by Urbis for Taronga Conservation Society Australia for the proposed development of a Reptile and Amphibian Conservation Centre (RACC) at Taronga Zoo, Mosman, NSW .

Please register your interest, preferably by response email, by **5pm 10th March 2021**.

The attached letter is reproduced below.

Kind regards,

Meggan

MEGGAN WALKER

CONSULTANT

D +61 2 8233 7626

T +61 2 8233 9900

E mwalker@urbis.com.au

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Meggan Walker

From: Darleen Johnson <murrabidgeemullangari@yahoo.com.au>
Sent: Wednesday, 24 February 2021 2:34 PM
To: Meggan Walker
Subject: registration= Taronga Zoo reptile and amphibian conservation centre and Taronga Wildlife Hospital NSW

Follow Up Flag: Follow up
Flag Status: Flagged

Dear Meggan,
Can you please register our corporation for the above projects, we have the cultural knowledge of identifying aboriginal objects and or places in the project area.

Kind regards
Ryan Johnson


Meggan Walker

From: Kaarina Slater <Ngambaaculturalconnections@hotmail.com>
Sent: Monday, 22 February 2021 8:34 PM
To: Meggan Walker; Balazs Hansel
Cc: Andrew Crisp
Subject: Re: Invitation to register - Taronga Zoo Reptile and Amphibian Conservation Centre ACHA - Our Ref P0031209

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Meggan

Hope all is well,
Ngambaa Cultural Connections would like to register our expression of interest for the project.

Regards
Kaarina Slater
[REDACTED]
Ngambaa CC

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From: Meggan Walker <mwalker@urbis.com.au>
Sent: Monday, February 22, 2021 4:48:11 PM
To: Balazs Hansel <bhansel@urbis.com.au>
Cc: Andrew Crisp <acrisp@urbis.com.au>
Subject: Invitation to register - Taronga Zoo Reptile and Amphibian Conservation Centre ACHA - Our Ref P0031209

Dear all,

Please see the attached invitation to register interest for an ACHA currently being prepared by Urbis for Taronga Conservation Society Australia for the proposed development of a Reptile and Amphibian Conservation Centre (RACC) at Taronga Zoo, Mosman, NSW .
Please register your interest, preferably by response email, by **5pm 10th March 2021**.
The attached letter is reproduced below.
Kind regards,
Meggan

MEGGAN WALKER
CONSULTANT

D +61 2 8233 7626
T +61 2 8233 9900
E mwalker@urbis.com.au

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Meggan Walker

From: Phillip Boney <Waarlan12@outlook.com>
Sent: Tuesday, 23 February 2021 9:02 PM
To: Meggan Walker
Subject: Re: Invitation to register - Taronga Zoo Reptile and Amphibian Conservation Centre ACHA - Our Ref P0031209

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Meggan,

Phil Boney here. I would like to register for this project. Thank you.

Regards, Phil Boney
Wailwan Aboriginal Group

From: Meggan Walker <mwalker@urbis.com.au>
Sent: Sunday, 21 February 2021 9:48 PM
To: Balazs Hansel <bhansel@urbis.com.au>
Cc: Andrew Crisp <acrisp@urbis.com.au>
Subject: Invitation to register - Taronga Zoo Reptile and Amphibian Conservation Centre ACHA - Our Ref P0031209

Dear all,

Please see the attached invitation to register interest for an ACHA currently being prepared by Urbis for Taronga Conservation Society Australia for the proposed development of a Reptile and Amphibian Conservation Centre (RACC) at Taronga Zoo, Mosman, NSW .

Please register your interest, preferably by response email, by **5pm 10th March 2021**.

The attached letter is reproduced below.

Kind regards,
Meggan

MEGGAN WALKER
CONSULTANT

D +61 2 8233 7626
T +61 2 8233 9900
E mwalker@urbis.com.au

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Meggan Walker

From: Meggan Walker
Sent: Monday, 24 May 2021 2:39 PM
To: OEH HD Heritage Mailbox
Cc: Balazs Hansel; Alexandra Ribeny
Subject: ACHA Stage 1.6 - List of RAPs- Taronga Wildlife Hospital and Reptile and Amphibian Conservation Centre
Attachments: 01_DPC_Stage1.6_TarongaWildlifeHospital.pdf; DPC_Stage1.6_TarongaRACC.pdf

Hello all,

Please find attached the Stage 1.6 notice for the Taronga Zoo Wildlife Hospital and Reptile and Amphibian Conservation Centre ACHAs currently in preparation by Urbis. Please let us know if you have any questions.

Kind regards,

MEGGAN WALKER
CONSULTANT

D +61 2 8233 7626
E mwalker@urbis.com.au

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SYDNEY NSW 2000**

URBIS.COM.AU
Urbis Pty Ltd
ABN 50 105 256 228

24 May 2021

Department of Premier and Cabinet
Heritage NSW
Aboriginal Branch
heritagemailbox@environment.nsw.gov.au

To whom it may concern,

**ABORIGINAL CULTURAL HERITAGE ASSESSMENT –TARONGA ZOO REPTILE
AND AMPHIBIAN CONSERVATION CENTRE – STAGE 1.6: LIST OF
REGISTERED ABORIGINAL PARTIES AND NOTIFICATION LETTER**

In accordance with Section 4.1.6 of the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW, 2010) please find below the compiled list of Registered Aboriginal Parties (RAPs) and notification letter under Section 4.1.3 for the abovementioned project.

Table 1 – List of Registered Aboriginal Parties

Name	Contact	Updated
Metropolitan Local Aboriginal Land Council (MLALC)	Selina Timothy	N
A1 Indigenous Services (A1)	Carolyn Hickey	N
Kamilaroi Yankuntjatjara Working Group	Phil Khan	N
Didge Ngunawal Clan	Lillie Carroll and Paul Boyd	N
Ginninderra Aboriginal Corporation (GAC)	Steven Johnson and Krystle Carroll	N
Wailwan Aboriginal Group (WAG)	Philip Boney	N
Ngambaa Cultural Connections (NCC)	Kaarina Slater	N
Dennis Foley	Dennis Foley	Y – would like to be included on stakeholder list
Butucarbin Aboriginal Coproration (BAC)	Jennifer Beale	N
MurraBidgeeMullangari	Ryan johnson	N
Gulaga	Wendy Smith	N
Goobah	Basil Smith	N

Please note Dennis Foley has indicated he would like to be included on the Mosman Local Government Area Potential Stakeholders list as supplied to proponents by the Department.

Please do not hesitate to contact us should you have any queries in relation to the provided information.

Yours sincerely,



Meggan Walker
Consultant
+61 2 8233 7626
mwalker@urbis.com.au



APPENDIX A

NOTIFICATION LETTER



**ANGEL PLACE
LEVEL 8, 123 PITT STREET
SYDNEY NSW 2000**

URBIS.COM.AU
Urbis Pty Ltd
ABN 50 105 256 228

22 February 2021

To whom it may concern ,

TARONGA ZOO REPTILE AND AMPHIBIAN CONSERVATION CENTRE - ABORIGINAL CULTURAL HERITAGE ASSESSMENT – ABORIGINAL COMMUNITY CONSULTATION STAGE 1 - INVITATION TO REGISTER

Please be advised that your contact details have been provided by The Aboriginal Cultural Heritage Regulation Branch- Heritage NSW - Department of Premier and Cabinet in accordance with Section 4.1.2 of the *Aboriginal cultural heritage consultation requirements for proponents* (DECCW, 2010) (hereafter referred as the Consultation Requirements) as a potential Aboriginal stakeholder who may have interest in registering to the abovementioned project.

Urbis has been commissioned by Taronga Conservation Society Australia (the Proponent) to conduct an Aboriginal Cultural Heritage Assessment (ACHA) for Taronga Zoo, Bradleys Head Road, Mosman, Lot 22 DP 843294, NSW (hereafter referred to as 'the subject area') (see attached figure). This is in relation to the establishment of a Reptile and Amphibian Conservation Centre within the grounds of the zoo.

This project is to be submitted to the Department of Planning, Industry and Environment (DPIE) as a State Significant Development Application (SSDA). The ACHA process is being commenced prior to the receipt of the Secretary's Environmental Assessment Requirements (SEARs) due to strict timeframes, however it is anticipated that the SEARs will require an ACHA to form part of the Environmental Impact Statement (EIS) for this project.

The ACHA is to be carried out in accordance with relevant guidelines under *the National Parks and Wildlife Act 1974* (NPW Act), including *the Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW* (OEH 2011). The assessment would detail any potential Aboriginal cultural heritage resources within the subject area and provide recommendations regarding management of those resources.

The Proponent can be contacted via:

Paul De Alwis
Project Manager, Corporate Services and Governance
Taronga Conservation Society [REDACTED]
[REDACTED]
[REDACTED]

OR

Matthew Spooner
Senior project Manager, Corporate Services and Governance
Taronga Conservation Society Australia
[REDACTED]
[REDACTED]



In accordance with the Consultation Requirements and Clause 80C of the *NSW National Parks and Wildlife Regulation 2009*, the Proponent will conduct a community consultation process with registered Aboriginal people to assist with the preparation of the ACHA.

In accordance with Section 4.1.2 of the Consultation Requirements Urbis proposes to invite Aboriginal people and/or organisations who may hold cultural knowledge relevant to determining the significance of Aboriginal objects and/or places that may exist within the subject area.

Should you wish to register your interest in this project, please respond in writing by clearly stating your interest and nominating a contact person by **10th March 2021**. Please send responses to the following:

Meggan Walker
Urbis
Consultant
mwalker@urbis.com.au
02 8233 7626
Level 8, 123 Pitt Street, Sydney, 2000.

Please be advised that, as per the Consultation Requirements, the Proponent is required to forward the names of Aboriginal persons and groups who register an interest (Registered Aboriginal Parties) to the Metropolitan Local Aboriginal Land Council and Department of Planning, Industry and Environment, unless the person or group specifies that they do not want their details released.

Please be advised that in accordance to Section 3.4 of the Consultation Requirements, inclusion in the consultation process does not automatically result in paid site assessment. The decision on who is engaged for delivering particular services is decided by the proponent and will be based on a range of considerations including skills, relevant experience, and providing necessary certificates of currency.

Please do not hesitate to contact us should you have any queries in relation to the provided information.

Yours sincerely,

A handwritten signature in blue ink, appearing to read "M Walker", with a stylized flourish at the end.

Meggan Walker
Consultant
+61 2 8233 7626
mwalker@urbis.com.au



Figure 1 – Regional Location of the Subject Area

Meggan Walker

From: Meggan Walker
Sent: Monday, 24 May 2021 2:39 PM
To: 'ceo@metrolalc.org.au'; Office Admin MLALC
Cc: Balazs Hansel; Alexandra Ribeny
Subject: ACHA Stage 1.6 - List of RAPs- Taronga Wildlife Hospital and Reptile and Amphibian Conservation Centre
Attachments: LALC_Stage1.6_TarongaWildlifeHospital.pdf; LALC_Stage1.6_TarongaRACC.pdf

Hello all,

Please find attached the Stage 1.6 notice for the Taronga Zoo Wildlife Hospital and Reptile and Amphibian Conservation Centre ACHAs currently in preparation by Urbis. Please let us know if you have any questions.

Kind regards,

MEGGAN WALKER
CONSULTANT

D +61 2 8233 7626

E mwalker@urbis.com.au

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COMMUNITIES**



ANGEL PLACE, LEVEL 8, 123 PITT STREET
SYDNEY, NSW 2000, AUSTRALIA

T +61 2 8233 9900

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Learn more about our [Reconciliation Action Plan](#).

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**ANGEL PLACE
LEVEL 8, 123 PITT STREET
SYDNEY NSW 2000**

URBIS.COM.AU
Urbis Pty Ltd
ABN 50 105 256 228

24 May 2021

Nathan Moran
CEO
Metropolitan Local Aboriginal Land Council
Via Email:
ceo@metrolalc.org.au

To whom it may concern,

**ABORIGINAL CULTURAL HERITAGE ASSESSMENT –TARONGA ZOO REPTILE
AND AMPHIBIAN CONSERVATION CENTRE – STAGE 1.6: LIST OF
REGISTERED ABORIGINAL PARTIES AND NOTIFICATION LETTER**

In accordance with Section 4.1.6 of the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW, 2010) please find below the compiled list of Registered Aboriginal Parties (RAPs) and notification letter under Section 4.1.3 for the abovementioned project.

Table 1 – List of Registered Aboriginal Parties

Name	Contact
Metropolitan Local Aboriginal Land Council (MLALC)	Selina Timothy
A1 Indigenous Services (A1)	Carolyn Hickey
Kamilaroi Yankuntjatjara Working Group	Phil Khan
Didge Ngunawal Clan	Lillie Carroll and Paul Boyd
Ginninderra Aboriginal Corporation (GAC)	Steven Johnson and Krystle Carroll
Wailwan Aboriginal Group (WAG)	Philip Boney
Ngambaa Cultural Connections (NCC)	Kaarina Slater
Butucarbin Aboriginal Coproration (BAC)	Jennifer Beale
MurraBidgeeMullangari	Ryan johnson
Gulaga	Wendy Smith
Goobah	Basil Smith

Please do not hesitate to contact us should you have any queries in relation to the provided information.

Yours sincerely,



Meggan Walker
Consultant
+61 2 8233 7626
mwalker@urbis.com.au



APPENDIX A

NOTIFICATION LETTER



**ANGEL PLACE
LEVEL 8, 123 PITT STREET
SYDNEY NSW 2000**

URBIS.COM.AU
Urbis Pty Ltd
ABN 50 105 256 228

22 February 2021

To whom it may concern ,

TARONGA ZOO REPTILE AND AMPHIBIAN CONSERVATION CENTRE - ABORIGINAL CULTURAL HERITAGE ASSESSMENT – ABORIGINAL COMMUNITY CONSULTATION STAGE 1 - INVITATION TO REGISTER

Please be advised that your contact details have been provided by The Aboriginal Cultural Heritage Regulation Branch- Heritage NSW - Department of Premier and Cabinet in accordance with Section 4.1.2 of the *Aboriginal cultural heritage consultation requirements for proponents* (DECCW, 2010) (hereafter referred as the Consultation Requirements) as a potential Aboriginal stakeholder who may have interest in registering to the abovementioned project.

Urbis has been commissioned by Taronga Conservation Society Australia (the Proponent) to conduct an Aboriginal Cultural Heritage Assessment (ACHA) for Taronga Zoo, Bradleys Head Road, Mosman, Lot 22 DP 843294, NSW (hereafter referred to as 'the subject area') (see attached figure). This is in relation to the establishment of a Reptile and Amphibian Conservation Centre within the grounds of the zoo.

This project is to be submitted to the Department of Planning, Industry and Environment (DPIE) as a State Significant Development Application (SSDA). The ACHA process is being commenced prior to the receipt of the Secretary's Environmental Assessment Requirements (SEARs) due to strict timeframes, however it is anticipated that the SEARs will require an ACHA to form part of the Environmental Impact Statement (EIS) for this project.

The ACHA is to be carried out in accordance with relevant guidelines under *the National Parks and Wildlife Act 1974* (NPW Act), including *the Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW* (OEH 2011). The assessment would detail any potential Aboriginal cultural heritage resources within the subject area and provide recommendations regarding management of those resources.

The Proponent can be contacted via:

Paul De Alwis
Project Manager, Corporate Services and Governance
Taronga Conservation Society Australia
[REDACTED]
[REDACTED]

OR

Matthew Spooner
Senior project Manager, Corporate Services and Governance
Taronga Conservation Society Australia
[REDACTED]
[REDACTED]



In accordance with the Consultation Requirements and Clause 80C of the *NSW National Parks and Wildlife Regulation 2009*, the Proponent will conduct a community consultation process with registered Aboriginal people to assist with the preparation of the ACHA.

In accordance with Section 4.1.2 of the Consultation Requirements Urbis proposes to invite Aboriginal people and/or organisations who may hold cultural knowledge relevant to determining the significance of Aboriginal objects and/or places that may exist within the subject area.

Should you wish to register your interest in this project, please respond in writing by clearly stating your interest and nominating a contact person by **10th March 2021**. Please send responses to the following:

Meggan Walker
Urbis
Consultant
mwalker@urbis.com.au
02 8233 7626
Level 8, 123 Pitt Street, Sydney, 2000.

Please be advised that, as per the Consultation Requirements, the Proponent is required to forward the names of Aboriginal persons and groups who register an interest (Registered Aboriginal Parties) to the Metropolitan Local Aboriginal Land Council and Department of Planning, Industry and Environment, unless the person or group specifies that they do not want their details released.

Please be advised that in accordance to Section 3.4 of the Consultation Requirements, inclusion in the consultation process does not automatically result in paid site assessment. The decision on who is engaged for delivering particular services is decided by the proponent and will be based on a range of considerations including skills, relevant experience, and providing necessary certificates of currency.

Please do not hesitate to contact us should you have any queries in relation to the provided information.

Yours sincerely,

A handwritten signature in blue ink, appearing to read "M Walker", with a stylized flourish at the end.

Meggan Walker
Consultant
+61 2 8233 7626
mwalker@urbis.com.au



Figure 1 – Regional Location of the Subject Area

Meggan Walker

From: Meggan Walker
Sent: Thursday, 13 May 2021 9:38 AM
To: Alexandra Ribeny
Cc: Balazs Hansel
Subject: Stage 2 and Stage 3 - Taronga Zoo, Reptile and Amphibian Conservation Centre - Our Ref P0031209
Attachments: P0031209_Stage2-3_TarongaRACC_FNL.pdf

Tracking:

Recipient

Alexandra Ribeny
Balazs Hansel
Gulaga
didgengunawalclan@yahoo.com.au
Ginninderra.corp@gmail.com
waarlan12@outlook.com
ngambaaculturalconnections@hotmail.com
Ryan Johnson
Dennis.Foley
nmoran@metrolalc.org.au
butuheritage@gmail.com
philip khan
Carolyn .H
goobahchts@gmail.com

Delivery

Delivered: 13/05/2021 9:39 AM
Delivered: 13/05/2021 9:39 AM

Hello all,

Please see attached the Stage 2 and 3 document for our project at Taronga Zoo for the Reptile and Amphibian Conservation Centre. Please provide any response in writing to myself or Alexandra Ribeny (details below) by **COB 10TH June 2021**.

Alexandra Ribeny

aribeny@urbis.com.au

Level 8, 123 Pitt Street, Sydney, 2000

Please let us know if you have any questions.

Kind regards,

MEGGAN WALKER

CONSULTANT

D +61 2 8233 7626

T +61 2 8233 9900

E mwalker@urbis.com.au

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ANGEL PLACE, LEVEL 8, 123 PITT STREET
SYDNEY, NSW 2000, AUSTRALIA

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Learn more about our **Reconciliation Action Plan**.

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13th May 2021

Dear All,

ABORIGINAL CULTURAL HERITAGE ASSESSMENT - TARONGA ZOO REPTILE AND AMPHIBIAN CONSERVATION CENTRE - STAGE 2 PRESENTATION OF INFORMATION & STAGE 3 GATHERING INFORMATION ABOUT CULTURAL SIGNIFICANCE

1. BACKGROUND

Thank you for registering your interest in this project.

Urbis have been engaged by Taronga Conservation Society Australia (TSCA) to prepare an Aboriginal Cultural Heritage Assessment (ACHA) for a State Significant Development Application (SSDA 1743577) for the proposed redevelopment of facilities within Taronga Zoo to create a Reptile and Amphibian Conservation Centre. This will involve the demolition of existing structures including the meerkat enclosure and cantilevered footpath, and the construction of new building, as well as landscaping works. Secretary's Environmental Assessment Requirements (SEARs) for this project have been received, with the following requirements for Aboriginal archaeology:

an Aboriginal Cultural Heritage Assessment Report in accordance with relevant guidelines, identifying, describing and assessing any impacts for any Aboriginal cultural heritage values on the site, including archaeology.

The purpose of the community consultation is to assist the Proponent in the preparation of an ACHA Report (ACHAR) to develop an understanding of the cultural significance of the area.

The present communication seeks to provide all Registered Aboriginal Parties (RAPs) with information about the scope of the proposed project and the proposed ACHA process, in accordance with Section 4.2.1 of the *Aboriginal cultural heritage consultation requirements for proponents 2010* (Department of Environment, Climate Change and Water NSW) ('the Consultation Requirements'). It is further aimed at facilitating a process for RAPs to: (a) contribute to culturally appropriate information gathering and research methodology; (b) provide information that will enable the cultural significance of Aboriginal objects and/or places within or near the proposed project to be determined; and (c) have input into the development of any cultural heritage management options, in accordance with Section 4.2.2 of the Consultation Requirements.

In addition to giving broad consideration to the Aboriginal Cultural Heritage of the subject area, the ACHA process will focus on the following matters:

- The Aboriginal cultural heritage values of the wider Taronga Zoo site and Bradley's Head Peninsula.

1.1. DETAILS OF THE DEVELOPMENT

Taronga Zoo is located at Bradleys Head Road, Mosman and is situated in the Mosman Local Government area (LGA). The site is bounded by Bradleys Head Road to the east, Athol Wharf Road and Sydney Harbour to the south, Little Sirius Cove to the west and Whiting Beach Road to the north.

Taronga Zoo is legally described as Lot 22 on DP843294 and is Crown Land managed by the TCSA (the Taronga Conservation Society Australia).

The proposed Reptile and Amphibian Conservation Centre is located within the eastern portion of the Zoo grounds, within the area of the former seal theatre and penguin pond. The subject area is between two roads, with a steep gradient between the two owing to bulk excavation. The subject area is now largely vacant, with a small meerkat enclosure to the east.

The proposed development comprises the construction of the Reptile and Amphibian Conservation Centre (RACC). The RACC project will be relocated from the current Serpentina location and will provide a newly developed exhibit and experience to Taronga Zoo's guests. The new Centre will inspire excitement, encourage visitation, provide opportunities for connection and reflection and facilitate learning experiences to think about our everyday lives and behaviours that impact the conservation of wildlife.

The new facility will:

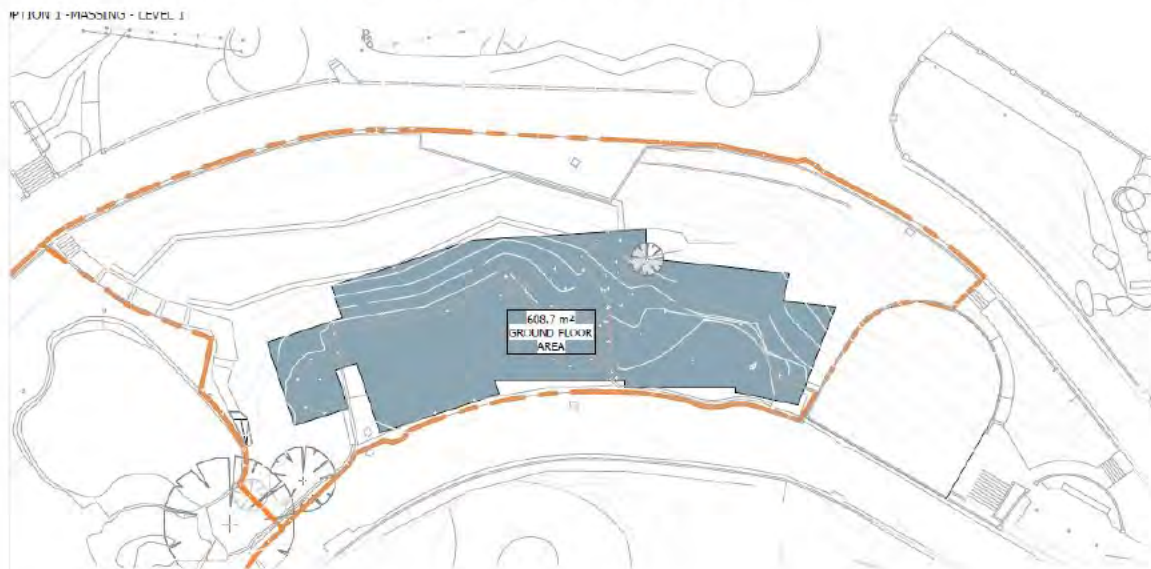
- Provide contemporary messages and call to action related to Reptile and Amphibian conservation.
- Create exciting, inspiring and compelling experiences that meet guest expectations, encourage revisitation and contribute to the financial sustainability of Taronga.
- Includes guest experience, keeper talks, encounters and tours.
- Improve positive animal welfare outcomes for the animals in our care.
- Showcase Taronga's relevant conservation recovery programs.
- Highlight culture and Indigenous communities and the role these animals play.
- Develop a built asset that considers sustainability, mature asset management principles and integrated asset systems e.g. fire, heating, ventilation, and air conditioning to ensure sustainable maintenance outcomes for asset lifecycle.

The proposed project area covers 1,712sqm. The proposed works will include the following:

- Site preparation works including animal relocation to temporary facilities and demolition of the meerkat exhibition.
- Construction of a two storey building with a new forecourt and entrance along the northern entrance to the site.
- Construction of a green wall along the southern façade of the building to provide screening and reflect the camouflage abilities of the animals on display.

The proposal will align with the existing terracing of the subject area and will not involve substantial excavation.

The plans below show the proposed works at the subject area.



OPTION 1 - MASSING - GROUND FLOOR

Figure 1 – Massing, ground floor level.



Figure 2 – Ground floor plan.

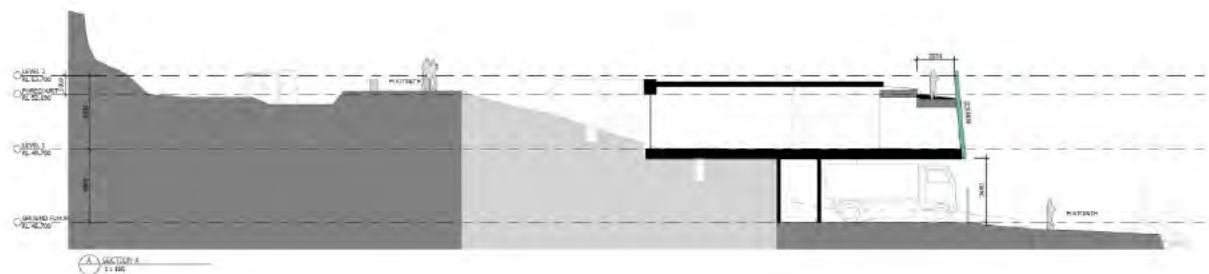


Figure 3 – Section, showing extent of excavation.

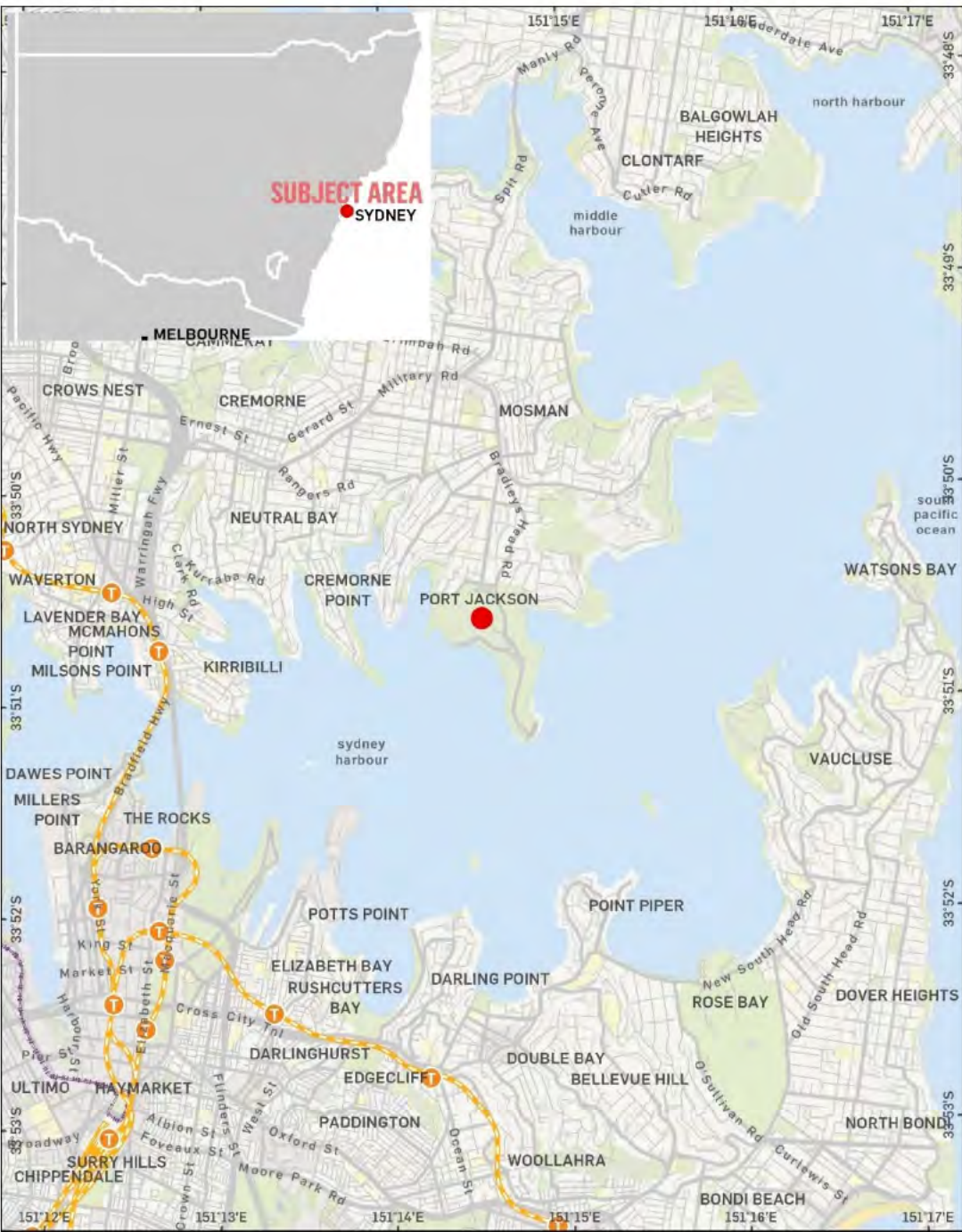


Figure 4 – Regional location



GDA 1994 MGA Zone 56

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40 M

Project No: P0031209 Reptile and Amphibian Conservation, Taronga Zoo, Bradley's Head Road, Mosman NSW
Project Manager: Balazs Hansel

 Subject Area  Contours

SUBJECT AREA

Taronga Conservation Society Australia

Figure 5 – Location of the Subject Area

1.2. PROJECT HISTORY

The decision to undertake the redevelopment of the subject area for the Reptile and Amphibian Conservation Centre (RACC) is informed by the overall masterplan prepared for the Zoo. This developed a staged capital works program including the development of the Reptile and Amphibian Conservation Centre, the Taronga Wildlife Hospital, The Upper Australia Habitat, the Taronga Platypus Conservation Centre, the Congo Forest and the African Savannah Precinct. The currently proposed works at Taronga Zoo are scheduled to occur over the next 3-4 years. Each project will likely be undertaken as a State Significant Development Application owing to the nature of the works. An ACHA was prepared by Urbis in 2020 for the Upper Australia Habitat, and is currently in preparation for the Taronga Wildlife Hospital. The African Savannah Precinct and Congo Forest have also been subject to Aboriginal archaeological investigation, undertaken by Dominic Steel Consulting Archaeology in 2017.

2. ARCHAEOLOGICAL CONTEXT

2.1.1. Aboriginal Heritage Information Management System (AHIMS)

The AHIMS database comprises previously registered Aboriginal archaeological objects and cultural heritage places in NSW and it is managed by the Department of Planning, Industry and Environment (DPIE) under Section 90Q of the *National Parks and Wildlife Act 1974* (NPW Act).

Aboriginal objects are the official terminology in AHIMS for Aboriginal archaeological sites. From this point in the assessment forward the terms of 'Aboriginal sites', 'AHIMS sites' or 'sites' will be used to describe the nature and spatial distribution of archaeological resources in relation to the subject area.

The search of the AHIMS was carried out on 9th February 2021 (Client Service ID: 566678) for an area of approximately 2 km². The search found no registered Aboriginal sites within or adjacent to the subject area.

The search results are shown on Figure 7, discussed in Table 1 and Figure 6, and included as Appendix A.

AHIMS Search Results (CSID: 566678)

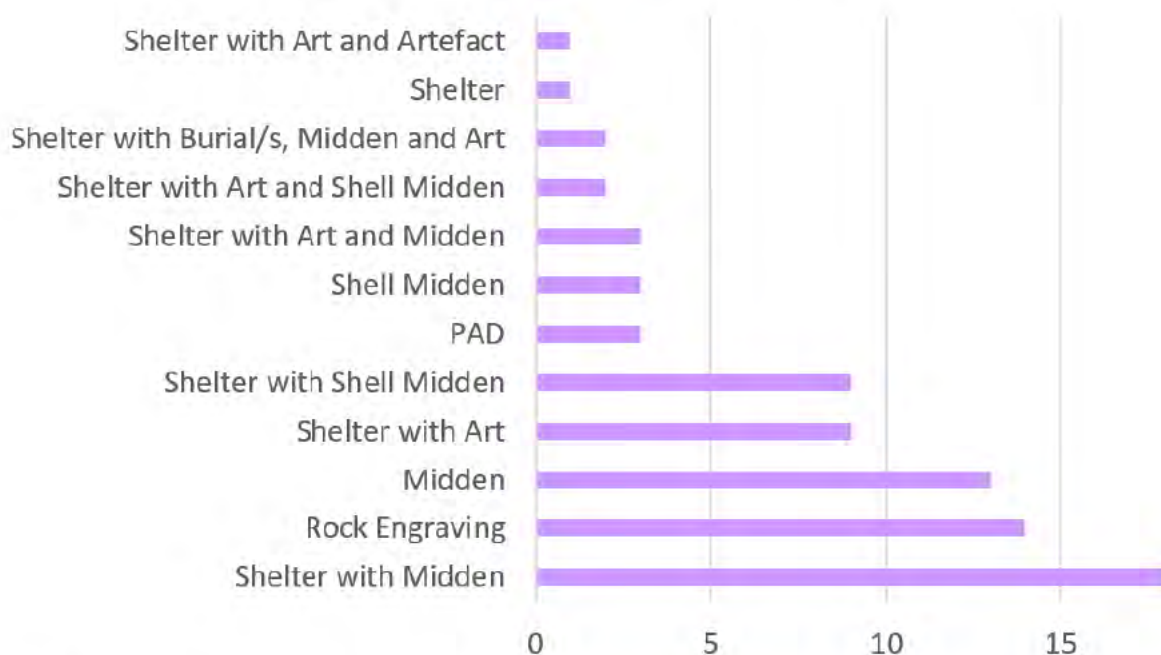


Figure 6 – AHIMS search results (Client Service ID: 566678)

Table 1 – AHIMS search results (Client Service ID: 566678)

Site Type	Number	Percentage
Shelter with Midden	18	23.1%
Rock Engraving	14	17.9%
Midden	13	16.7%
Shelter with Art	9	11.5%
Shelter with Shell Midden	9	11.5%
PAD	3	3.8%
Shell Midden	3	3.8%
Shelter with Art and Midden	3	3.8%
Shelter with Art and Shell Midden	2	2.6%
Shelter with Burial/s, Midden and Art	2	2.6%
Shelter	1	1.3%
Shelter with Art and Artefact	1	1.3%
Total	78	100%

In the above table, 'shell midden' describes a shell deposits which contains exclusively shell as identified on the AHIMS site card, whereas 'midden' described a deposit containing both culturally modified lithics and shell.

The types of sites identified reflect the landscape and environment of the search area. 'Open' context sites are sites which occur in open space, whereas 'closed' context sites are those which occur within rock shelters. Closed context sites dominated the search results, comprising 58% (n=45). This is due to the general topography and geology of the site, where sandstone outcrops are common. As a results, site which are dependent on sandstone (including shelter sites and rock engravings) comprised 79% (n=62) of search results. These site types are typically indicative of habitation and long term occupation across the area. Shelters are sites of habitation, and typically correlate with additional archaeological resources including art, shell middens and artefacts.

40% (n=31) of registered sites within the search area contained art. Art within shelters, typically in the form of pigment applied to the shelter wall, comprised 55% (n=17) of art sites, while rock engravings in open context comprised 45% (n=14) of art sites. Pigment art is typically associated with areas of habitation and sustenance, while engravings are typically located on flat sandstone outcrops, on ridges where vistas occur. All art sites are indicative of prolonged use and occupation/habitation within an area, and typically are of high cultural significance due to their rarity, caused by post-settlement destruction and natural erosion and wear processes. Art sites within shelters often correlate with middens, artefacts and burials.

Middens are sites containing deposits of edible shell indicative of habitation, sustenance and resource extraction. Middens are typically located within shelters and/or in close proximity to watercourses where edible shells were extracted and subsequently processed. Midden may represent a single meal or an accumulation over a long period of time involving many different activities. Shell middens are delineated in this report as containing exclusively shell, whereas 'Middens' refers to sites which also contain culturally modified lithics (stone artefacts).

Burials are commonly found within middens and sand bodies. Aboriginal burial of the dead often took place relatively close to camp site locations. Burials are highly culturally significant and strongly protected under legislation. Sites containing human remains comprised 2.6% (n=2) of site types within the search area, with the remains identified within shelters with middens and art.

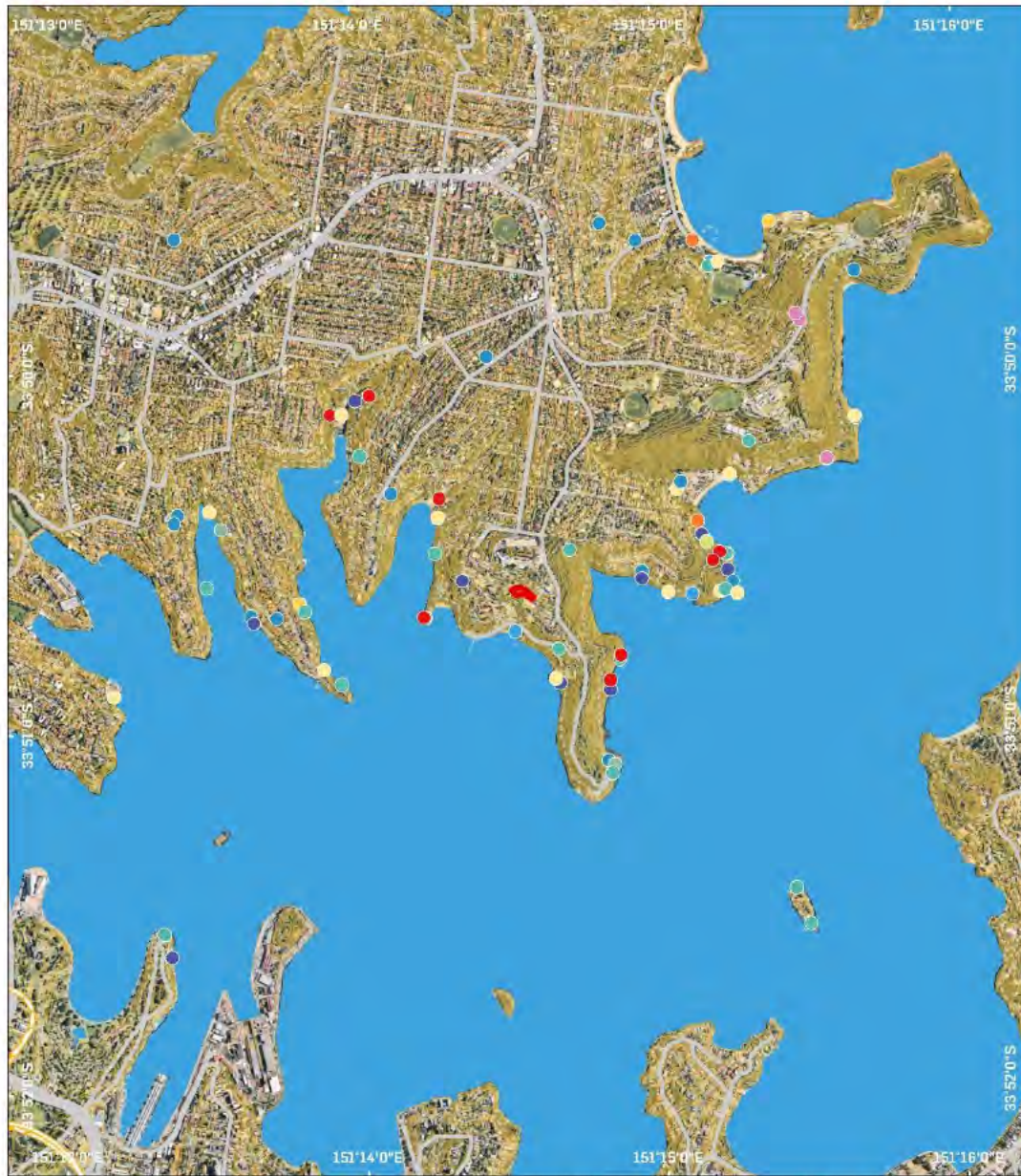
Sites containing stone artefacts comprised 47% (n=37) of site types. This included artefacts in open and closed context, with scatters of varying densities and associated with other materials. Artefact scatter sites are sites with multiple culturally modified lithics within a 10m area. Artefact scatters range in size; from small, low intensity, 'background' scatter, to large scatters of hundreds of artefacts, with accompanying materials which would indicate use of the area for long term habitation purposes.

Potential Archaeological Deposits (PAD) sites comprised 3.8% (n=3) of results, and occurred only in isolation across the search area, rather than being associated with other sites. PADs typically represent areas where the environmental context and level of disturbance are such that subsurface remains are deemed to be likely, and the registering of PADs is usually followed by test excavation which will either realise this potential through the identification of sites, or result in the de-registering of the area due to the absence of materials. PADs are typically registered within areas where deposits indicative of habitation are anticipated to occur.

It should be noted that the AHIMS register does not represent a comprehensive list of all Aboriginal objects or sites in a specified area. It lists recorded sites identified during previous archaeological survey effort. The wider surroundings of the subject area have experienced various levels and intensity of archaeological investigations during the last few decades. Most of the registered sites have

been identified through targeted, pre-development surveys for infrastructure and maintenance works, with the restrictions on extent and scope of those developments.

Furthermore, it is important to note that archaeological sites alone will not provide the full context of how Aboriginal people might have used the landscape in the past and how their every day and ceremonial activities shaped the landscape and provided the cultural connection to the natural environment. Archaeological resources comprise only one aspect (tangible) of Aboriginal cultural heritage and intangible cultural heritage provides a more holistic context of past and present Aboriginal life.



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1 KM

ABORIGINAL HERITAGE CONSTRAINTS

Project No: P0031209 Reptile and Amphibian Conservation, Taronga Zoo, Bradley's Head Road, Mosman NSW
Project Manager: Balazs Hansel

- | | | | | |
|---|---|--|---|---|
| Subject Area | ● Midden and Artefact | ● Rock Engraving | ● Shelter with Art | ● Shelter with Artefact |
| — Contours | ● Midden with Artefact | ● Rock engraving | ● Shelter with Art and Artefact | ● Shelter with Burial/s, Art and Midden |
| — Hydrology | ● Not an Aboriginal Site | ● Shell Midden | ● Shelter with Art and Midden | ● Shelter with Midden |
| ● Midden | ● PAD | ● Shelter | ● Shelter with Art and Shell Midden | ● Shelter with Midden and Artefact |
| | | | | ● Shelter with PAD |
| | | | | ● Shelter with Shell Midden |

Figure 7 – Registered Aboriginal sites in search area

2.1.2. Aboriginal Archaeological Management Plan

There is an existing Aboriginal Archaeological Management Plan (AMP) for the wider Taronga Zoo Park. This was prepared in 2004 by GML. The Archaeological Management Plan assessed the archaeological, environmental and historical land use context of the Taronga Zoo site to inform a system by which the zoo was divided into Management Zones which correlated to archaeological potential and thus management strategies for potential Aboriginal archaeological sites. 5 zones were identified, discussed in the table below.

Table 2 – Management Zones

Zone	Description	Corresponding Potential
1	Identified Art Site	High
2	Unassessed area outside Zoo boundary wall	N/A
3	Rock surface unmodified by European development. Areas of original bushland unmodified by European development.	High
4	Areas heavily modified by European Development.	Medium to Low
5	Areas which have previously been excavated down to bedrock, or culturally sterile soils.	Nil

Source: GML, 2004.

The 2004 AMP identifies the subject area as within the following zones (Figure 8):

- Zone 4.
- Zone 5.

Accordingly, the subject area is registered as having low Aboriginal archaeological potential according to this assessment. Management strategies identified for these zones include an Archaeological Induction for all contractors if subsurface disturbance is proposed and a chance find procedure developed.

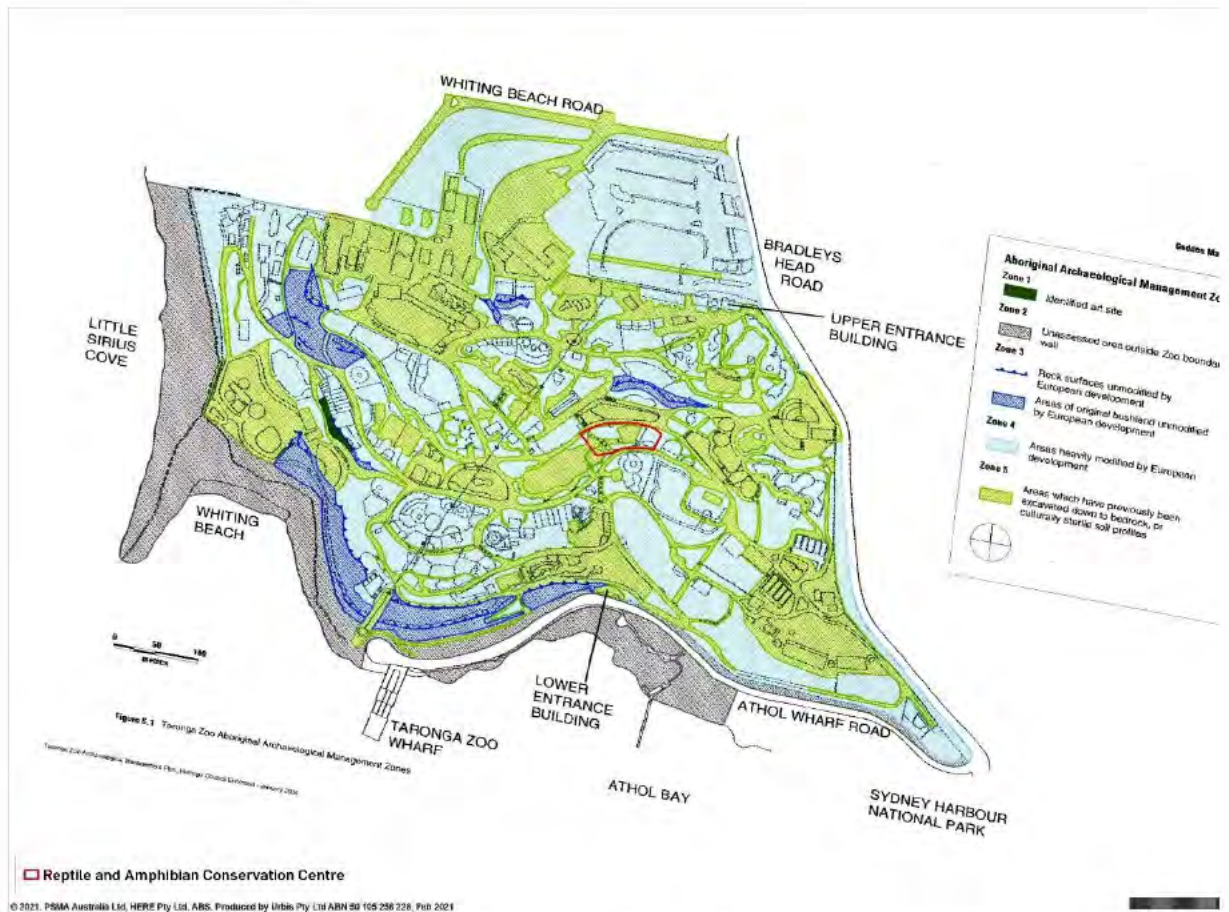


Figure 8 – Aboriginal Archaeological Management Zones

Source: Taronga Zoo AMP, 2004.

3. ENVIRONMENTAL CONTEXT

3.1. GEOLOGY AND SOILS

The subject area is located within the Sydney Basin Bioregion. The underlying geology of the Mosman area consists of Triassic Hawkesbury Sandstone, which is exposed along the shoreline (Chapman & Murphy 1989). The Hawkesbury Sandstone is a medium to coarse-grained quartz sandstone with minor shale and laminite lenses. The subject area is located on a peninsula which extends south into Port Jackson (Sydney Harbour).

The subject area is located within the Gynea Lambert soil landscape (gy), which consists of undulating to rolling rises and low hills on Hawkesbury Sandstone. Soils consist of shallow to moderately deep (30-100 cm) Yellow Earths and Earthy Sands on crests and inside of benches, shallow (<20 cm) Siliceous Sands on leading edges of benches, localised Gleyed Podzolic Soils and Yellow Podzolic Soils on shale lenses and shallow to moderately deep (<100 cm) Siliceous Sands and Leached Sands along drainage lines (Figure 9).

A small portion of the south west of the subject area is within the Hawkesbury Soil Landscape (ha), which occurs on rugged, rolling to very steep hills on Hawkesbury Sandstone. Soils consist of shallow (>50cm), discontinuous Lithosols/Siliceous Sands associated with rock outcrop; Earthy Sands, Yellow Earths, and some Yellow Podzolic soils on inside of benches and along joints and fractures; localised Yellow and Red Podzolic Soils associated with shale lenses; siliceous sands and secondary Yellow Earths along drainage lines.

The depth of natural soils is relevant to the potential for archaeological deposits to be present, especially in areas where disturbance is high. Most of the Mosman area is highly disturbed as a result of moderate density residential development during the 20th Century.

3.2. TOPOGRAPHY

The wider Taronga Zoo area is characterised by the presence of intersecting sandstone ledges that sloped towards the harbour foreshore. The site has been subject to high levels of disturbance relating to its use as a zoo, which necessitated the creation of level building terraces by cutting and filling sections of the sandstone bedrock. The stratigraphy of the subject area is therefore comprised of alternating sections of shallow sandstone bedrock and fill.

3.3. HYDROLOGY

Taylor's Gully drains into the harbour approximately 330m to the north east of the subject area. There is currently a highly modified creek to the north of the subject area which feeds the wetlands ponds. Generally, water exhibits such as the seal pond to the north of the subject area were located across the Zoo in areas of previous gully's or creeks.

3.4. HISTORICAL LAND USE

The subject area has experienced high to extreme levels of disturbance associated with the clearance of vegetation, the construction and demolition of Zoo facilities, including the seal theatre and the penguin pond, road and path construction, and the bulk excavation of the site for existing facilities such as the meerkat enclosure. Details regarding the historical use of the site and an analysis of historical aerials will be included in the full ACHA.



It is considered likely that these high levels of disturbance will have impacted the archaeological potential of the subject area. The Taronga Zoo Archaeological Management Plan (AMP) identifies the subject area as being heavily modified by European development.

The archaeological potential of the subject area is therefore determined to be low.

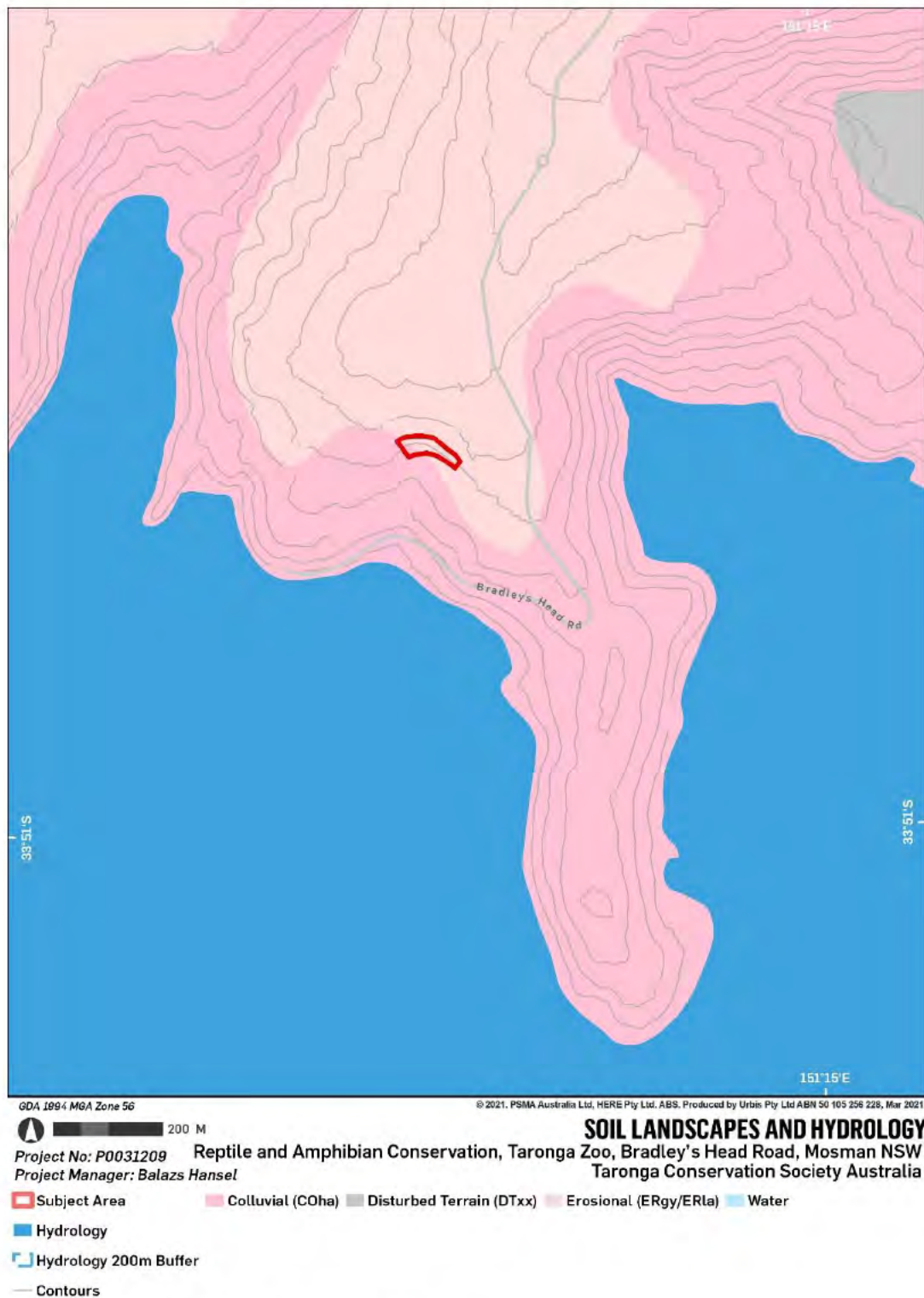


Figure 9 – Soils landscapes and hydrology

4. METHODOLOGY

The proposed impact assessment process for the ACHA, including the input points into the investigation and assessment activities for RAPs, is outlined below, in accordance with Section 4.2.2(b) of the Consultation Requirements.

The ACHA will be conducted in accordance with Part 6 of the *National Parks and Wildlife Act 1974* ('NPW Act'), Part 5 of the *National Parks and Wildlife Regulation 2019* ('NPW Reg') and will adhere to the following guidelines:

- The Consultation Requirements.
- *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales* (Department of Environment, Climate Change and Water NSW, 2010).
- *Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in New South Wales* (Office of Environment and Heritage, Department of Premier and Cabinet, 2011).
- *The Burra Charter: The Australia ICOMOS Charter for Places of Cultural Significance* (Australia ICOMOS, 2013).

The ACHA will follow the general methodology described in Table 3 below.

Table 3 – Aboriginal cultural heritage assessment methodology

Process Method	Description
Desktop assessment	Collection and evaluation of background information, including archaeological and historical resources and environmental conditions, to develop a predictive model for archaeological potential.
Consultation with RAPs	Providing information on the project to RAPs and gathering information about the proposed methodology and the Aboriginal cultural heritage values and significance of the subject area.
Site inspection with RAPs (if approved by Proponent)	On-site meeting including site inspection of the subject area with the RAPs to allow further opportunity for cultural information to be provided and for the RAPs to familiarise themselves with the subject area and discuss the archaeological approach.
Preparation of draft ACHA report	Synthesis of all information collected during the ACHA process to prepare a draft assessment report and provision of the draft report to the Proponent and the RAPs for comments. The report will include an assessment of significance of any Aboriginal objects or Aboriginal cultural heritage values that may exist within the subject area, an

Process Method	Description
	impact assessment and provide management and mitigation measures.
Finalisation of ACHA report	Incorporation of all comments from the Proponent and RAPs into ACHA report and finalisation.

Urbis welcomes input and information from the RAPs at any stage throughout the entire process of the ACHA. Consistent with the Consultation Requirements, the formal input points for the consultation are the following:

- During Stage 2 and 3 – Following review of the current communication, which presents information about the proposed project and ACHA methodology.
- During Stage 2 and 3 – During or following the onsite inspection, should such an inspection be approved by the Proponent.
- During Stage 4 – Following review of the draft ACHA.

The critical timelines for the above stages are provided in Section 5 below.

4.1. ROLES, FUNCTIONS AND RESPONSIBILITIES

The roles, functions and responsibilities of the proponent and RAPs are defined below, in accordance with Section 4.2.2(d) of the Consultation Requirements.

The roles, functions and responsibilities of the Proponent, Urbis (acting on behalf of the Proponent), RAPs and any other parties involved in the consultation process are those defined in Section 5 of the Consultation Requirements.

Please note that, in accordance with Section 3.4 of the Consultation Requirements, consultation does not include the employment of Aboriginal people to assist in field assessment and/or site monitoring. Furthermore, there is no obligation on the Proponent to employ Aboriginal people registered for consultation. Aboriginal people may provide services to the Proponent through a contractual arrangement separate to the consultation process. Consultation will continue irrespective of potential or actual employment opportunities for Aboriginal people.

4.2. GATHERING CULTURAL INFORMATION

Urbis is providing the opportunity for RAPs to identify, raise and discuss their cultural concerns, perspectives and assessment requirements (if any), in accordance with Section 4.2.2(e) of the Consultation Requirements.

Urbis is actively seeking information on the cultural heritage and cultural significance of the subject area. Such information includes the existence of any Aboriginal objects of cultural value to Aboriginal people in or near the subject area and the existence of any places of cultural value to Aboriginal people in or near the subject area (whether declared under s.84 of the NPW Act or not), including places of social, spiritual and cultural value, historic places with cultural significance and potential places/areas of historic, social, spiritual and/or cultural significance.

Please also consider the following when providing information:

- Do you have information on any Aboriginal objects within or near the subject area?
- Do you or somebody you know have information of cultural values, stories in relation to the subject area and if that information can be shared?

If you or your organisation has sensitive or restricted public access information for determining or managing the heritage values of the subject area, it is proposed that the proponent will manage this information (if provided by the Aboriginal community) in accordance with a sensitive cultural information management protocol. It is anticipated that the protocol will include making note of and managing the material in accordance with the following key limitations as advised by Aboriginal people at the time of the information being provided:

- Any restrictions on access of the material.
- Any restrictions on communication of the material (confidentiality).
- Any restrictions on the location/storage of the material.
- Any cultural recommendations on handling the material.
- Any names and contact details of persons authorised within the relevant Aboriginal group to make decisions concerning the Aboriginal material and degree of authorisation.
- Any details of any consent given in accordance with customary law.
- Any access and use by the RAPs of the cultural information in the material.

Please consider the above list when providing your recommendations regarding any culturally sensitive information.

4.3. QUESTIONNAIRE

To streamline information gathering during Stage 2 and 3, and to inform the proponent for any field inspection component, Urbis requests the following information from you:

1. **Cultural connection:** Please describe the nature of your cultural connection to the country on which the subject area is situated. Please include any relevant cultural knowledge or knowledge of Aboriginal objects or places within the subject area. Have you ever lived in or near the subject area? If you are a Traditional Owner, please state this clearly.
2. **Representing your community members:** Please state who you or your organisation represents. Do you or your organisation represent other members of the Aboriginal community? If so, please describe how information is provided to the other members, and how their information and knowledge may be provided back to the proponent and Urbis.
3. **Previous experience:** Please list your relevant (for example, in the area of the proposed project) previous experience in providing cultural heritage advice and survey participation.
4. **Schedule of Rates:** Please provide your Certificate of Currency including Product and Public Liability Insurance and Worker's Compensation. Please also include a schedule of rates (hourly/half day/day) for fieldwork participation, and include any expenses you may expect to incur, and these will be sought to be reimbursed. Please note that it is for the discretion for the proponent to decide if they invite RAPs for site works and the consultation process does not guarantee paid employment.



The above questions are provided as a questionnaire in Appendix B, for your convenience.

5. CRITICAL TIMELINES

The critical timelines and milestones for the completion of the ACHA and delivery of reports are presented in Table 4 below, in accordance with Section 4.2.2(c) of the Consultation Requirements. Please note that the presented timeframes are estimates only and are intended as a guided to allow forward planning of personnel and resources.

Table 4 – Critical timelines

Project Stage	Deadline
Stage 2 and 3: Provision of comments on the provided project information and proposed methodology (this document).	COB 10th June 2021
Stage 3: Site survey (if agreed to by proponent).	On or after 11th June 2021
Stage 4: Provision of the draft ACHA report (including the proposed management and mitigation measures) to the RAPs.	Within 2 business days of the site inspection
Stage 4: Provision of comments on draft ACHA report.	Within 28 days from delivery of the draft ACHA to RAPs
Stage 4: Finalisation of the ACHA report including the consideration of all comments and feedback.	Within one week of the closing of the comment period for the draft ACHA report.

Please provide the requested information by **Close of Business 10th June 2021**.

Comments received after this date might be excluded from the draft ACHA. Please provide your comments in writing to

Meggan Walker
Consultant
Urbis
Level 8, 123 Pitt Street
mwalker@urbis.com.au
02 8233 7626

If you have any questions, please do not hesitate to contact us.

Yours sincerely,



Meggan Walker
Consultant
+61 2 8233 7626
mwalker@urbis.com.au



APPENDIX A

AHIMS RESULTS – BASIC AND EXTENSIVE



APPENDIX B

ACHA QUESTIONNAIRE

Meggan Walker

From: Gulaga <gulagachts@gmail.com>
Sent: Friday, 14 May 2021 6:16 PM
To: Meggan Walker
Cc: Alexandra Ribeny; Balazs Hansel
Subject: Re: Stage 2 and Stage 3 - Taronga Zoo, Reptile and Amphibian Conservation Centre - Our Ref P0031209

Follow Up Flag: Follow up
Flag Status: Flagged

Received, thank you.
Please keep Gulaga updated in the future.

Kind Regards
Wendy Smith
Cultural Heritage Officer
Gulaga
[REDACTED]

[REDACTED] 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.

On Thu, May 13, 2021 at 9:38 AM Meggan Walker <mwalker@urbis.com.au> wrote:

Hello all,

Please see attached the Stage 2 and 3 document for our project at Taronga Zoo for the Reptile and Amphibian Conservation Centre. Please provide any response in writing to myself or Alexandra Ribeny (details below) by **COB 10TH June 2021**.

Alexandra Ribeny

aribeny@urbis.com.au

Level 8, 123 Pitt Street, Sydney, 2000

Please let us know if you have any questions.

Kind regards,

MEGGAN WALKER
CONSULTANT

D +61 2 8233 7626
T +61 2 8233 9900
E mwalker@urbis.com.au

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Meggan Walker

From: philip khan <philipkhan.acn@live.com.au>
Sent: Wednesday, 19 May 2021 10:12 AM
To: Meggan Walker
Subject: Re: Stage 2 and Stage 3 - Taronga Zoo, Reptile and Amphibian Conservation Centre - Our Ref P0031209

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Meggan,

Thank you for your ACHA for Taronga Zoo reptile and Amphibian Conservation Centre. Aboriginal people have walked this land for tens of thousands of years and continue to do so, we care for mother earth and she rewards us with her resources. Which we only take what we need and always give back to mother earth that's the way of the lore. We have a deep connection to our mother earth; we follow the skies and the stars of the night sky they guide us. We have connection to the flora and fauna, totems are sacred to us as they made us, water ways are of great importance to us they hold life and provide us with resources.

The study area is of highly significant to us Aboriginal people as the environment would have been very different to today. The flora and fauna would have been thriving and full of resources for Aboriginal people. Water ways would have covered the area & would be utilised for fishing, stone tool manufacturing, birthing and wooden tool making. This suggests the area would also been used for hunting, gathering and ceremonial practices.

I highly recommend further testing/ salvaging of the site, as it is highly significant to the Aboriginal community. I would like to mention Aboriginal interpretation, does the proponent have a plan? It is highly important that we are acknowledging one of the oldest continuing culture in the world, by recognising them through interpretation. This could be in the form of art, 3D artefact display, native gardens, and app or signage expressing the history of Aboriginal people within the area. I can't stress the importance of acknowledging the real traditional owners of which is being developed on. I would like to agree to your recommendations and support your methodology.

Kind Regards

Kadibulla Khan



From: Meggan Walker <mwalker@urbis.com.au>
Sent: Thursday, 13 May 2021 9:37 AM
To: Alexandra Ribeny <aribeny@urbis.com.au>

Cc: Balazs Hansel <bhansel@urbis.com.au>

Subject: Stage 2 and Stage 3 - Taronga Zoo, Reptile and Amphibian Conservation Centre - Our Ref P0031209

Hello all,

Please see attached the Stage 2 and 3 document for our project at Taronga Zoo for the Reptile and Amphibian Conservation Centre. Please provide any response in writing to myself or Alexandra Ribeny (details below) by **COB 10TH June 2021**.

Alexandra Ribeny

aribeny@urbis.com.au

Level 8, 123 Pitt Street, Sydney, 2000

Please let us know if you have any questions.

Kind regards,

MEGGAN WALKER

CONSULTANT

D +61 2 8233 7626

T +61 2 8233 9900

E mwalker@urbis.com.au

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Meggan Walker

From: Kaarina Slater <Ngambaaculturalconnections@hotmail.com>
Sent: Thursday, 20 May 2021 2:27 PM
To: Meggan Walker; Alexandra Ribeny
Cc: Balazs Hansel
Subject: Re: Stage 2 and Stage 3 - Taronga Zoo, Reptile and Amphibian Conservation Centre - Our Ref P0031209

Follow Up Flag: Follow up
Flag Status: Flagged

Thanks Meggan

Confirming NCC has reviewed stage 2&3 reports.
No further comments at this stage

Kind Regards
Kaarina Slater
NCC

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From: Meggan Walker <mwalker@urbis.com.au>
Sent: Thursday, May 13, 2021 9:37:45 AM
To: Alexandra Ribeny <aribeny@urbis.com.au>
Cc: Balazs Hansel <bhansel@urbis.com.au>
Subject: Stage 2 and Stage 3 - Taronga Zoo, Reptile and Amphibian Conservation Centre - Our Ref P0031209

Hello all,

Please see attached the Stage 2 and 3 document for our project at Taronga Zoo for the Reptile and Amphibian Conservation Centre. Please provide any response in writing to myself or Alexandra Ribeny (details below) by **COB 10TH June 2021**.

Alexandra Ribeny
aribeny@urbis.com.au
Level 8, 123 Pitt Street, Sydney, 2000

Please let us know if you have any questions.

Kind regards,

MEGGAN WALKER
CONSULTANT

D +61 2 8233 7626
T +61 2 8233 9900
E mwalker@urbis.com.au



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Meggan Walker

From: Meggan Walker
Sent: Tuesday, 8 June 2021 4:20 PM
To: Balazs Hansel; Alexandra Ribeny
Subject: ACHA - Taronga Zoo Reptile and Amphibian Conservation Centre - EOI Site Visit (Our Ref # P0031209)
Attachments: 01_P0031209_EOISiteVisit_TarongaRACC.pdf

Hello All,

Please find attached an invitation to register for the site visit at Taronga Zoo, to take place on **16th June 10:30am-12:30pm**. Please note we **require all responses by 12pm 15th June 2021** in order to confirm attendees with the Proponent.

Should you have any questions, please don't hesitate to contact me on 02 8233 7626 or via return email. All registrations for the site visit must be in writing, preferably by return email.

Further details will be provided to those who register by 5pm on the 15th of June 2021.

Kind regards,

MEGGAN WALKER
CONSULTANT

D +61 2 8233 7626
E mwalker@urbis.com.au

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**ANGEL PLACE
LEVEL 8, 123 PITT STREET
SYDNEY NSW 2000**

URBIS.COM.AU
Urbis Pty Ltd
ABN 50 105 256 228

8 June 2021

Dear All,

ABORIGINAL CULTURAL HERITAGE ASSESSMENT - TARONGA ZOO REPTILE AND AMPHIBIAN CONSERVATION CENTRE - SITE VISIT EXPRESSION OF INTEREST

1. BACKGROUND

Thank you for registering your interest and taking an active role in the consultation process for the Aboriginal Cultural Heritage Assessment (ACHA) for the proposed development of a Reptile and Amphibian Conservation Centre within a portion of Lot 22 on DP843294. We appreciate your engagement with the process to date.

Urbis, on behalf of the Taronga Conservation Society of Australia (TCSA) (the Proponent) would like to invite you to attend a site visit for this project following the close of the Stage 2 and 3 comment period, in accordance with Section 4.2 and 4.3 of the *Aboriginal cultural heritage consultation requirements for proponents* (DECCW, 2010) (hereafter referred as the Consultation Requirements). This meeting will provide the opportunity to familiarise yourself with the subject area through field survey, and then to discuss the cultural heritage approach and raise any cultural heritage information or concerns in accordance with Section 4.3 of the Consultation Requirements.

The site visit will include a brief presentation on the findings of the Aboriginal Cultural Heritage Assessment (ACHA) so far followed by a walkover of the subject area. There will be the opportunity for questions and for RAPs to provide any comment on the cultural significance of the subject area. RAPs will be accompanied by Urbis Archaeologists and representatives from the Proponent.

1.1. PROPOSED ACTIVITY

The proposed Reptile and Amphibian Conservation Centre is located within the eastern portion of the Zoo grounds, within the area of the former seal theatre and penguin pond. The subject area is between two roads, with a steep gradient between the two owing to bulk excavation. The subject area is now largely vacant, with a small meerkat enclosure to the east.

The proposed development comprises the construction of the Reptile and Amphibian Conservation Centre (RACC). The RACC project will be relocated from the current Serpentina location and will provide a newly developed exhibit and experience to Taronga Zoo's guests. The new Centre will inspire excitement, encourage visitation, provide opportunities for connection and reflection and facilitate learning experiences to think about our everyday lives and behaviours that impact the conservation of wildlife.

The new facility will:

- Provide contemporary messages and call to action related to Reptile and Amphibian conservation.
- Create exciting, inspiring and compelling experiences that meet guest expectations, encourage revisitation and contribute to the financial sustainability of Taronga.
- Includes guest experience, keeper talks, encounters and tours.
- Improve positive animal welfare outcomes for the animals in our care.
- Showcase Taronga's relevant conservation recovery programs.
- Highlight culture and Indigenous communities and the role these animals play.
- Develop a built asset that considers sustainability, mature asset management principles and integrated asset systems e.g. fire, heating, ventilation, and air conditioning to ensure sustainable maintenance outcomes for asset lifecycle.

The proposed project area covers 1,712sqm. The proposed works will include the following:

- Site preparation works including animal relocation to temporary facilities and demolition of the meerkat exhibition.
- Construction of a two storey building with a new forecourt and entrance along the northern entrance to the site.
- Construction of a green wall along the southern façade of the building to provide screening and reflect the camouflage abilities of the animals on display.

The proposal will align with the existing terracing of the subject area and will not involve substantial excavation.

The plans below show the proposed works at the subject area.



Figure 1 – Massing, ground floor level.

01_P0031209_EOISiteVisit_TarongaRACC_BHed



2. DETAILS

The site visit is currently scheduled to take place on **16th June 2021 at 10:30am-12:30pm.**

Please also be advised that due to the current environment around social distancing rules for COVID19, one representative from each RAP group is invited to attend. There will be additional measures implemented that will need to be adhered to, including not attending site visit if you feel unwell or have been sick with the relevant symptoms, or if you have been in Melbourne in the two weeks prior to the site visit.

To register your interest for the site visit, please provide:

- Digital copy of your Certificate of currency, including public liability insurance and workers' compensation insurance (if they have not already been provided),
- Name and contact details of the nominated site officer.

The proponent has agreed to remuneration for:

- One representative from each invited RAP group for the site visit. The hourly rate agreed to be the Proponent is \$150/ph.
- **Note:** Travel costs will not be remunerated. These conditions are non-negotiable.
- Invoicing details will be provided after the site visit. Please note that payment is subject to the invoicing schedule between Urbis and Taronga Zoo. Payments will be made when Urbis receives the funds as per the monthly invoicing cycle.

If you agree to the above provisions, please provide the requested information no later than **12pm Tuesday 15th June 2021**. Late registrations will **not** be accepted as we need to provide the Proponent with a list of attendees.

Please provide your registration of interest and associate documentation to:

Meggan Walker
Urbis Pty Ltd
Angel Place
level 8, 123 Pitt Street
Sydney, 2000 NSW
D: 02 8233 7626
Email: mwalker@urbis.com.au

Please do not hesitate to contact us should you have any queries in relation to the provided information.

Yours sincerely,

A handwritten signature in blue ink, appearing to read "M Walker", with a stylized flourish at the end.

Meggan Walker
Consultant
+61 2 8233 7626



mwalker@urbis.com.au

Meggan Walker

From: Butucarbin Heritage <butuheritage@gmail.com>
Sent: Tuesday, 15 June 2021 12:16 PM
To: Meggan Walker
Subject: Re: ACHA - Taronga Zoo Reptile and Amphibian Conservation Centre - EOI Site Visit (Our Ref # P0031209)

Hi Meggan,
Thank you for doing that. I will send the necessary documents before 5pm.

It should be noted that \$150 per hour does not meet those requirements. Like many other RAPs, Butucarbin operates as a consultancy.
Our normal Consultancy rate for meetings is \$120 per hour + loss of work and travel expenses. For this particular meeting (assuming the meeting would last two hours) Butucarbin would normally charge, \$240 consultancy rate + \$240 loss of work + travel expenses.

In future, it may be beneficial for Urbis to ask RAP's rates before the meeting takes place, to ensure proper negotiation between the proponent and RAPs.

Kind regards,
Lowanna

On Tue, 15 Jun 2021 at 11:10 am, Meggan Walker <mwalker@urbis.com.au> wrote:

Hi Lowanna,

That's fine – we will note your registration and see you on site tomorrow.

I understand and your comments will be noted and passed onto the proponent, however the agreed rate of \$150/hr is intended to meet this section of the requirements.

We will send details shortly regarding meeting place for tomorrows site visit, looking forward to seeing you then.

Kind regards,

MEGGAN WALKER
CONSULTANT

D +61 2 8233 7626
E mwalker@urbis.com.au



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From: Butucarbin Heritage <butuheritage@gmail.com>

Sent: Tuesday, 15 June 2021 11:03 AM

To: Meggan Walker <mwalker@urbis.com.au>

Subject: Re: ACHA - Taronga Zoo Reptile and Amphibian Conservation Centre - EOI Site Visit (Our Ref # P0031209)

Hi Meggan,

Butucarbin would like to register for the site visit tomorrow. Unfortunately, I am on site at the moment and cannot send you the relevant documents until I finish. I could probably send these before 5pm. Please let me know if this is okay.

Also, I understand the document stipulates that travel expenses are not reimbursed and that this is non-negotiable. Normally, Butucarbin does charge for travel expenses and loss of work (pursuant to s 3.4 of the Aboriginal Cultural Heritage Consultation Requirements for Proponents). I urge, in future that Urbis ensures the proponent is aware of the requirements they may consider.

Kind regards,

Lowanna

On Tue, 8 Jun 2021 at 4:19 pm, Meggan Walker <mwalker@urbis.com.au> wrote:

Hello All,

Please find attached an invitation to register for the site visit at Taronga Zoo, to take place on **16th June 10:30am-12:30pm**. Please note we **require all responses by 12pm 15th June 2021** in order to confirm attendees with the Proponent.

Should you have any questions, please don't hesitate to contact me on 02 8233 7626 or via return email. All registrations for the site visit must be in writing, preferably by return email.

Further details will be provided to those who register by 5pm on the 15th of June 2021.

Kind regards,

MEGGAN WALKER
CONSULTANT

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E mwalker@urbis.com.au

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--

Lowanna Gibson

Project Manager for Butucarbin Cultural Heritage Assessments

B.A Archaeology/Anthropology USYD

Juris Doctor UTS

--

Lowanna Gibson

Project Manager for Butucarbin Cultural Heritage Assessments

B.A Archaeology/Anthropology USYD

Juris Doctor UTS

Meggan Walker

From: lilly carroll <didgengunawalclan@yahoo.com.au>
Sent: Tuesday, 8 June 2021 4:21 PM
To: Meggan Walker; Balazs Hansel; Alexandra Ribeny
Subject: Re: ACHA - Taronga Zoo Reptile and Amphibian Conservation Centre - EOI Site Visit (Our Ref # P0031209)

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Meggan

DNC would like to register an interest into the site visit at Taronga zoo cheers Paul

[Sent from Yahoo Mail for iPhone](#)

On Tuesday, June 8, 2021, 4:19 pm, Meggan Walker <mwalker@urbis.com.au> wrote:

Hello All,

Please find attached an invitation to register for the site visit at Taronga Zoo, to take place on **16th June 10:30am-12:30pm**. Please note we **require all responses by 12pm 15th June 2021** in order to confirm attendees with the Proponent.

Should you have any questions, please don't hesitate to contact me on 02 8233 7626 or via return email. All registrations for the site visit must be in writing, preferably by return email.

Further details will be provided to those who register by 5pm on the 15th of June 2021.

Kind regards,

MEGGAN WALKER
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Meggan Walker

From: Ginninderra Aboriginal Corporation <ginninderra.corp@gmail.com>
Sent: Wednesday, 9 June 2021 4:50 PM
To: Meggan Walker
Subject: Re: ACHA - Taronga Zoo Reptile and Amphibian Conservation Centre - EOI Site Visit (Our Ref # P0031209)

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Meggan,

Please register Ginninderra for the site visit on the 16th. Thank you 😊

Kind regards,

Krystle Carroll-Elliott
Ginninderra Aboriginal Corporation



☐ We acknowledge the Traditional Owners of Country throughout Australia and recognise their connection to land, water, and community.
We pay our respects to them, their cultures, and to Elders past and present.

On 8 Jun 2021, at 4:19 pm, Meggan Walker <mwalker@urbis.com.au> wrote:

Hello All,

Please find attached an invitation to register for the site visit at Taronga Zoo, to take place on **16th June 10:30am-12:30pm**. Please note we **require all responses by 12pm 15th June 2021** in order to confirm attendees with the Proponent.
Should you have any questions, please don't hesitate to contact me on 02 8233 7626 or via return email. All registrations for the site visit must be in writing, preferably by return email.

Further details will be provided to those who register by 5pm on the 15th of June 2021.

Kind regards,

MEGGAN WALKER
CONSULTANT
<image001.gif>
D +61 2 8233 7626
E mwalker@urbis.com.au

<image002.png>

<image003.png><image004.png><image005.png><image006.png>

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<01_P0031209_EOISiteVisit_TarongaRACC.pdf>

Meggan Walker

From: philip khan <philipkhan.acn@live.com.au>
Sent: Wednesday, 9 June 2021 1:16 PM
To: Meggan Walker
Subject: RE: ACHA - Taronga Zoo Reptile and Amphibian Conservation Centre - EOI Site Visit (Our Ref # P0031209)
Attachments: Workers Insurance Certificate of Currency - 2021 Correct.pdf; Public Liability Kamilaroi 2021 to 2022.pdf
Follow Up Flag: Follow up
Flag Status: Flagged

Hi Meggan,

Thank you for informing us that Urbis will be involved in an Aboriginal Cultural Heritage Assessment at Taronga Zoo Reptile and Amphibian Conservation Centre & that you are inviting Aboriginal organisations to register, if they wish too be involved in the community consultation process.

As a senior Aboriginal person for the past 40yrs, I actively participate in the protection of the Aboriginal Cultural Heritage throughout the Sydney Basin, & particularly throughout Western Sydney, on behalf of Kamilaroi Yankuntjatjara Working Group I wish to provide to you my organisation's registration of interest.

I wish to be involved & participate in all levels of consultation/project involvement. I wish to attend all meetings, participate in available field work & receive a copy of the report.

I have attached a copy of Kamilaroi Yankuntjatjara Working group's Public Liability Insurance & Workers Compensation certificate.

Our Rates - \$100 per hour, \$400 half day & \$800 full day (Exc. GST)

Our RAPS have up to 15yrs Cultural Heritage experience in – field work which involves manual excavation (digging), sieving, identifying artefacts, setting up transits, setting up equipment, packing equipment, site surveys & attending meetings.

Please lock us in for the site meeting and am I able to advise you of the RAPS details closer to the date once I have completed my rosters for that week?

Should you wish me to provide further information, please do not hesitate to contact me on 04 [REDACTED] or Stefanie on 0 [REDACTED]

Kind Regards
Phil Khan
0434545982



From: Meggan Walker <mwalker@urbis.com.au>

Sent: Tuesday, June 8, 2021 4:19:39 PM

To: Balazs Hansel <bhansel@urbis.com.au>; Alexandra Ribeny <aribeny@urbis.com.au>

Subject: ACHA - Taronga Zoo Reptile and Amphibian Conservation Centre - EOI Site Visit (Our Ref # P0031209)

Hello All,

Please find attached an invitation to register for the site visit at Taronga Zoo, to take place on **16th June 10:30am-12:30pm**. Please note we **require all responses by 12pm 15th June 2021** in order to confirm attendees with the Proponent.

Should you have any questions, please don't hesitate to contact me on 02 8233 7626 or via return email. All registrations for the site visit must be in writing, preferably by return email.

Further details will be provided to those who register by 5pm on the 15th of June 2021.

Kind regards,

MEGGAN WALKER
CONSULTANT

D +61 2 8233 7626

E mwalker@urbis.com.au

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Meggan Walker

From: Ryan Johnson <murrabidgeemullangari@yahoo.com.au>
Sent: Tuesday, 8 June 2021 4:31 PM
To: Meggan Walker
Subject: Re: ACHA - Taronga Zoo Reptile and Amphibian Conservation Centre - EOI Site Visit (Our Ref # P0031209)

Hi Megan
We will be available
Thanks
Ryan Johnson

On 8 Jun 2021, at 4:19 pm, Meggan Walker <mwalker@urbis.com.au> wrote:

Hello All,

Please find attached an invitation to register for the site visit at Taronga Zoo, to take place on **16th June 10:30am-12:30pm**. Please note we **require all responses by 12pm 15th June 2021** in order to confirm attendees with the Proponent.
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Further details will be provided to those who register by 5pm on the 15th of June 2021.

Kind regards,

MEGGAN WALKER

CONSULTANT

<image001.gif>

D +61 2 8233 7626

E mwalker@urbis.com.au

<image002.png>

<image003.png><image004.png><image005.png><image006.png>

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<01_P0031209_EOISiteVisit_TarongaRACC.pdf>

Meggan Walker

From: Darleen Johnson <murrabidgeemullangari@yahoo.com.au>
Sent: Tuesday, 15 June 2021 1:47 PM
To: Meggan Walker
Subject: Re: ACHA - Taronga Zoo Reptile and Amphibian Conservation Centre - EOI Site Visit (Our Ref # P0031209)
Attachments: murrabidgee workers compensation 2021.pdf; murrabidgee public liability insurance 2021.pdf
Follow Up Flag: Follow up
Flag Status: Flagged

Hi Meggan,
Please see attached insurances,
Thanks

7

On Tuesday, 8 June 2021, 04:31:16 pm AEST, Ryan Johnson <murrabidgeemullangari@yahoo.com.au> wrote:

Hi Megan
We will be available
Thanks
Ryan johnson

On 8 Jun 2021, at 4:19 pm, Meggan Walker <mwalker@urbis.com.au> wrote:

Hello All,

Please find attached an invitation to register for the site visit at Taronga Zoo, to take place on **16th June 10:30am-12:30pm**. Please note we **require all responses by 12pm 15th June 2021** in order to confirm attendees with the Proponent.

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Kind regards,

MEGGAN WALKER

CONSULTANT

<image001.gif>

D +61 2 8233 7626

E mwalker@urbis.com.au

<image002.png>

[<image003.png><image004.png><image005.png><image006.png>](#)

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<01_P0031209_EOISiteVisit_TarongaRACC.pdf>

Meggan Walker

From: Kaarina Slater <Ngambaaculturalconnections@hotmail.com>
Sent: Wednesday, 9 June 2021 6:27 AM
To: Meggan Walker; Balazs Hansel; Alexandra Ribeny
Subject: Re: ACHA - Taronga Zoo Reptile and Amphibian Conservation Centre - EOI Site Visit (Our Ref # P0031209)

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Meggan

Hope all is well

Confirmation myself Kaarina Slater will be at the site visit on behalf of Ngambaa Cultural Connections

Regards
K.Slater
NCC

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From: Meggan Walker <mwalker@urbis.com.au>
Sent: Tuesday, June 8, 2021 4:19:39 PM
To: Balazs Hansel <bhansel@urbis.com.au>; Alexandra Ribeny <aribeny@urbis.com.au>
Subject: ACHA - Taronga Zoo Reptile and Amphibian Conservation Centre - EOI Site Visit (Our Ref # P0031209)

Hello All,

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Should you have any questions, please don't hesitate to contact me on 02 8233 7626 or via return email. All registrations for the site visit must be in writing, preferably by return email.

Further details will be provided to those who register by 5pm on the 15th of June 2021.

Kind regards,

MEGGAN WALKER
CONSULTANT

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E mwalker@urbis.com.au

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2nd July 2021

Dear All,

TARONGA ZOO REPTILE AND AMPHIBIAN CONSERVATION CENTRE - ABORIGINAL CULTURAL HERITAGE ASSESSMENT - PROJECT UPDATE

This letter is intended to serve as an update under Stage 2 and 3 of the consultation process, for our project being the Aboriginal Cultural Heritage Assessment (ACHA) for the construction of a Reptile and Amphibian Conservation Centre (RACC) at Taronga Zoo, Mosman, on behalf of the Taronga Conservation Society Australia (TCSA).

In previous correspondence, we have indicated the subject area in accordance with Figure 1 below, as indicated by the red polygon. However, there has been a change to the subject area boundary resulting from a need to provide upgraded access to the proposed new building. The new subject area boundary is indicated in red on Figure 2.

While this includes an area to the east of the subject area not previously indicated, impacts proposed in this additional portion are minimal, and include only the demolition of existing pavement and stair and upgrade to improve access, with a section of the existing aviary wall to be removed and some minor landscape works. Furthermore, we have reviewed the archaeological, environmental and historical context of the updated subject area and do not believe this has a material impact on the conclusions and recommendations provided in the Stage 2 and 3 document and discussed during the site visit on 16th June 2021. This additional area is still highly modified with no remnant natural vegetation or soils identified, and no outcrops of sandstone occurring. Furthermore, the additional portion of the subject area is still within Zone 4 and 5 as identified in the GML Archaeological Zoning Plan for Taronga Zoo (GML, 2004). For reference, the management zones and their corresponding potential are reproduced below.

Table 1 – Management Zones

Zone	Description	Corresponding Potential
1	Identified Art Site	High
2	Unassessed area outside Zoo boundary wall	N/A
3	Rock surface unmodified by European development. Areas of original bushland unmodified by European development.	High
4	Areas heavily modified by European Development.	Medium to Low
5	Areas which have previously been excavated down to bedrock, or culturally sterile soils.	Nil

Source: GML, 2004.



Figure 1 – Original subject area boundary indicated in red, as provided in the Stage 2 and 3 document.



Figure 2 – Updated subject area boundary indicated in red polygon, inclusive of area to the east.



The updated boundary as indicated in the red polygon in Figure 2 will be the subject area boundary assessed for the Stage 4 Draft ACHA which will be provided to all Registered Aboriginal Parties (RAPs) for comment in due course.

This letter has been provided to all RAPS so that you may provide any updated comments on cultural significance for the modified subject area or raise any concerns. In order for comments to be addressed in the Stage 4 Draft ACHA, please provide any additional comments in writing and preferably by return email by **5pm 6th July 2021**. Urbis will be in contact over the coming days to confirm your receipt of this letter and acknowledgement of the change in site boundary.

Yours sincerely,

A handwritten signature in blue ink, appearing to read "M. Walker", with a stylized flourish at the end.

Meggan Walker
Consultant
+61 2 8233 7626
mwalker@urbis.com.au

Meggan Walker

From: lilly carroll <didgengunawalclan@yahoo.com.au>
Sent: Friday, 2 July 2021 7:30 PM
To: Meggan Walker; Balazs Hansel
Subject: Re: Taronga Reptile and Amphibian Conservation Centre - ACHA Project Update - Our Ref P0031209

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Meggan

DNC is happy with the updates

[Sent from Yahoo Mail for iPhone](#)

On Friday, July 2, 2021, 10:46 am, Meggan Walker <mwalker@urbis.com.au> wrote:

Hello all,

Please see the attached letter providing an update on the subject area boundary for the ACHA for the proposed Reptile and Amphibian Conservation Centre (RACC) within the bounds of Taronga Zoo, Mosman. Please let us know if you have any questions or comments.

Kind regards,
MEGGAN WALKER
CONSULTANT

D +61 2 8233 7626
E mwalker@urbis.com.au

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Meggan Walker

From: Gulaga <gulagachts@gmail.com>
Sent: Tuesday, 6 July 2021 3:46 PM
To: Meggan Walker
Cc: Balazs Hansel
Subject: Re: Taronga Reptile and Amphibian Conservation Centre - ACHA Project Update - Our Ref P0031209

Thank you for the update.
Gulaga makes no comment at this stage.

Kind Regards
Wendy Smith
Cultural Heritage Officer
Gulaga


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On Fri, Jul 2, 2021 at 10:46 AM Meggan Walker <mwalker@urbis.com.au> wrote:

Hello all,

Please see the attached letter providing an update on the subject area boundary for the ACHA for the proposed Reptile and Amphibian Conservation Centre (RACC) within the bounds of Taronga Zoo, Mosman. Please let us know if you have any questions or comments.

Kind regards,
MEGGAN WALKER
CONSULTANT

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E mwalker@urbis.com.au

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Meggan Walker

From: philip khan <philipkhan.acn@live.com.au>
Sent: Monday, 5 July 2021 3:33 PM
To: Meggan Walker
Subject: Re: Taronga Reptile and Amphibian Conservation Centre - ACHA Project Update - Our Ref P0031209

Follow Up Flag: Follow up
Flag Status: Flagged

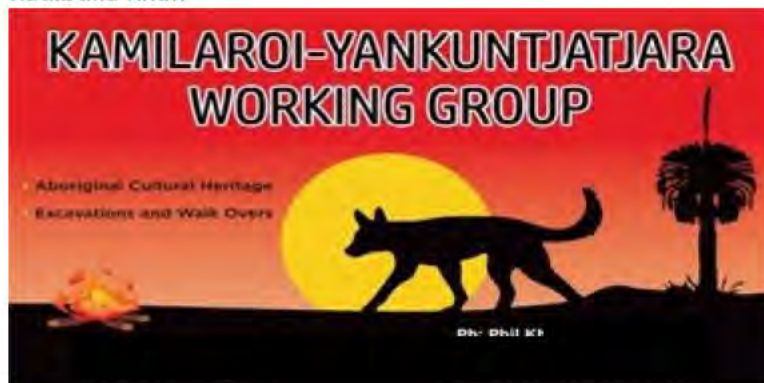
Dear Meggan,

Thank you for your update letter for your ACHA for the proposed Reptile and Amphibian Conservation Centre (RACC) within the bounds of Taronga Zoo, Mosman. Our people have walked this land for tens of thousands of years and continue to do so. We have had a spiritual connection to this land since long ago, we live a life full of great wise people, our ancestors passed their knowledge to the younger generations and so on. We hold lore and kingship within our community we have a belief system, one practiced for tens of thousands of years some still practiced today. We did not just hunt and gather we utilised the land through craftsmanship, our tools were made of organic materials. Our way of giving back to mother earth our way of conservation. Our water ways are highly significant to us as we follow the water ways, utilised them for fishing, bathing, drinking water, healing etc and we looked to the skies for guidance as we read the sky to navigate. Our burials are still unfound and we need to be aware of them, as they are highly significant to our people. Interpretation some ways you can incorporate culture in interpretation is through native gardens, art work, design, digital display, yarning circles and or an app highlighting the Aboriginal culture, these are just some examples. Excavation beneath the large bolder should be carried out, and monitoring of the rest of the study area should be done by RAPs. After our site visit, we agree with the ACHA, we believe that the project is on the right direction to and we support your report.

We look forwards to working along side you on this project.

Kind Regards

Kadibulla Khan



From: Meggan Walker <mwalker@urbis.com.au>
Sent: Friday, 2 July 2021 10:46 AM
To: Balazs Hansel <bhansel@urbis.com.au>
Subject: Taronga Reptile and Amphibian Conservation Centre - ACHA Project Update - Our Ref P0031209

Hello all,

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Kind regards,

MEGGAN WALKER
CONSULTANT

D +61 2 8233 7626

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Meggan Walker

From: Phillip Boney <Waarlan12@outlook.com>
Sent: Sunday, 4 July 2021 8:12 PM
To: Meggan Walker; Balazs Hansel
Subject: Re: Taronga Reptile and Amphibian Conservation Centre - ACHA Project Update - Our Ref P0031209

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Meghan,

Phil Boney here. I have nothing to add at this time.

Regards, Phil Boney

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From: Meggan Walker <mwalker@urbis.com.au>
Sent: Friday, July 2, 2021 10:46:28 AM
To: Balazs Hansel <bhansel@urbis.com.au>
Subject: Taronga Reptile and Amphibian Conservation Centre - ACHA Project Update - Our Ref P0031209

Hello all,

Please see the attached letter providing an update on the subject area boundary for the ACHA for the proposed Reptile and Amphibian Conservation Centre (RACC) within the bounds of Taronga Zoo, Mosman. Please let us know if you have any questions or comments.

Kind regards,

MEGGAN WALKER
CONSULTANT

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E mwalker@urbis.com.au

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APPENDIX C

CONSULTATION LOG

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

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

