



# Kamay Botany Bay National Park

## Revetment Wall







NSW National Parks and Wildlife Service acknowledges the traditional custodians of the land and pays respect to Elders past, present and future.

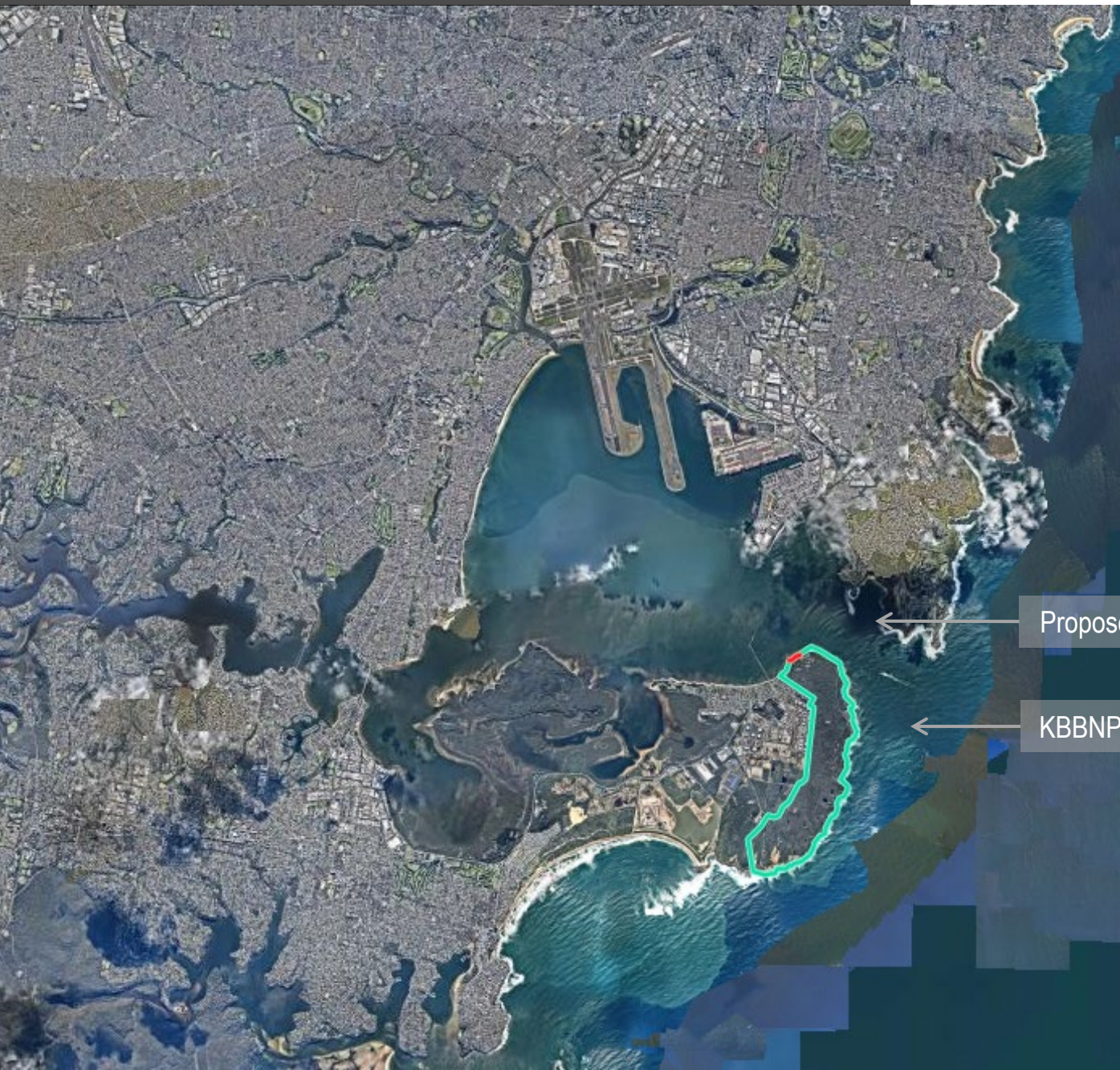
We recognise Australian Aboriginal and Torres Strait Islander peoples' unique cultural and spiritual relationships to place and their rich contribution to society.

Artist and designer Nikita Ridgeway from Aboriginal design agency – Boss Lady Creative Designs, created the People and Community symbol.





## SITE LOCATION & PROJECT TEAM



### Client

National Parks and Wildlife Service

- Greg Abbott – Principal Project Officer
- Asher Seeto – Project Officer

### Planning

Arup

- Natalie Swannack – Associate Environmental Planner
- Charlie Sammoun - Senior Environmental Planner

### Landscape Architect

Oculus

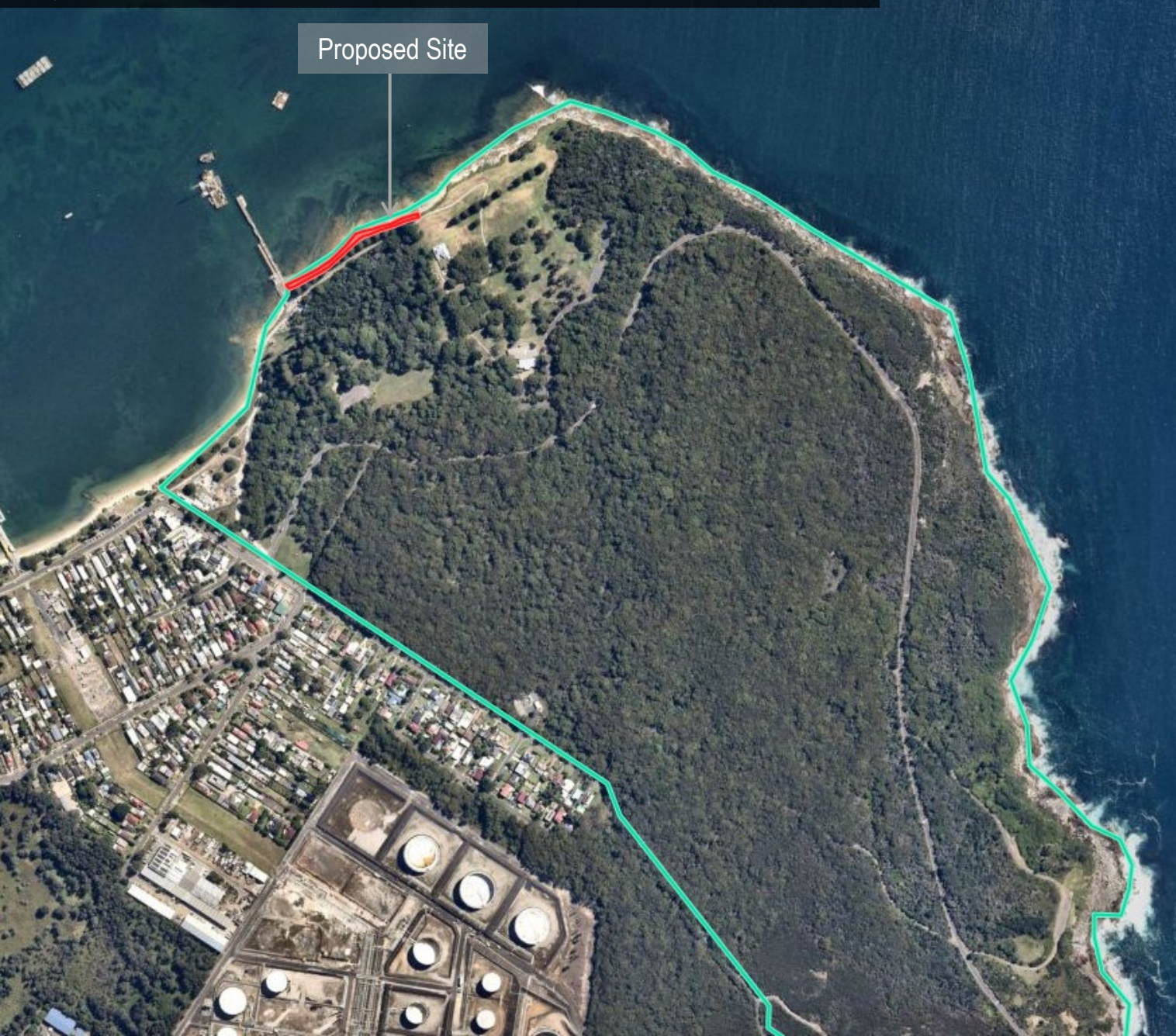
### Structural & Civil Engineer

Consult Marine





## PLANNING PATHWAY



- The Proposal is a component of broader works outlined in the KBBNP Master Plan, and NPWS has prepared a Review of Environmental Factors for the wider project under *Part 5 of the Environmental Planning and Assessment Act 1979 (EP&A Act)*.
- The Proposal however falls under Part 4 of the EP&A Act due to the Proposal being identified as development in a "coastal environment area" and "coastal use area" according to the *Resilience and Hazards SEPP 2021*.
- The Proposal aligns with the definition of "coastal protection works" under the *Coastal Management Act 2016*, which includes activities or works aimed at reducing the impact of coastal hazards on land adjacent to tidal waters, such as seawalls, revetments, and groynes.
- The Proposal is classified as regionally significant development under *Schedule 6, clause 8A (Certain coastal protection works) of the Planning Systems SEPP*, and the Sydney Regional Planning Panel has been identified as the determining authority.



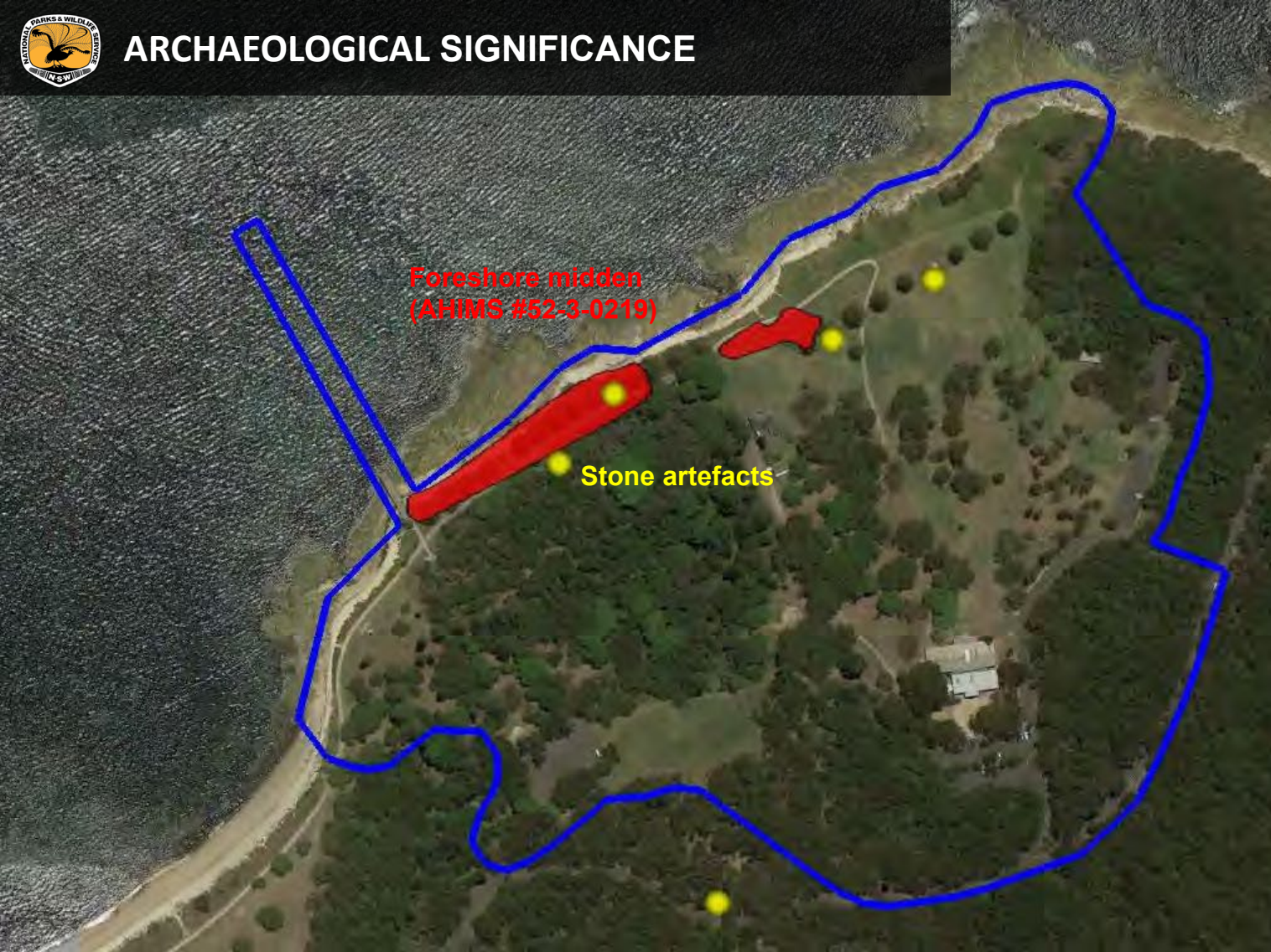
- Temporary sandbag revetment was built in 2018 to protect araucaria roots and midden from storm erosion, along 120m of foreshore
- Sandbags were suitable as an emergency measure, but the fabric has a limited lifespan, and a permanent solution is a requirement of the 2019 DA consent.
- Proposed revetment will replace the sandbags and extend 100m further east, with a break across the Freshwater Stream, to the edge of Commemoration Flat
- Stone stairs will be provided at the eastern end of the wall to provide access to the canoe sculptures, plus the revetment block structure will facilitate safe public foreshore access
- Existing sections of stone revetment adjacent to the Stream will be retained and the new works keyed-into the existing stone blocks with minimal impact







## ARCHAEOLOGICAL SIGNIFICANCE

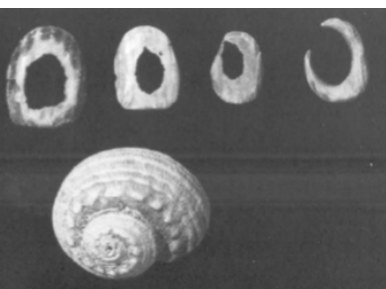


*"The Kurnell section of Kamay Botany Bay National Park... is a highly significant Aboriginal landscape. Aboriginal people have been camping along this shore for thousands of years, and have left traces of their lives engraved on rocks and in large campsites."*

- P. Irish 2023

*"This substantial midden extends several hundred metres along the foreshore... It is of high scientific and historical significance due to its excellent preservation of a range and quantity of shell, stone and bone implements (including the largest documented number of shell fish hooks in Australia), a wide range of fish and animal bones and shellfish, and evidence of continuing occupation after the arrival of Europeans."*

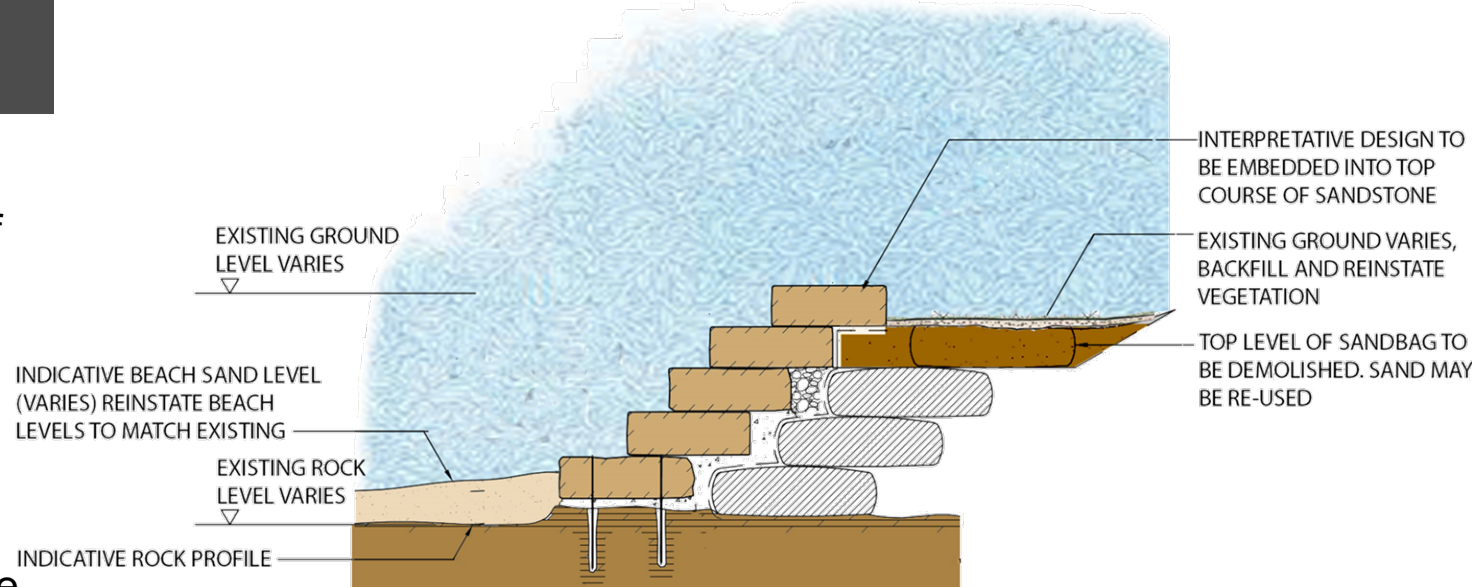
- P. Irish 2010



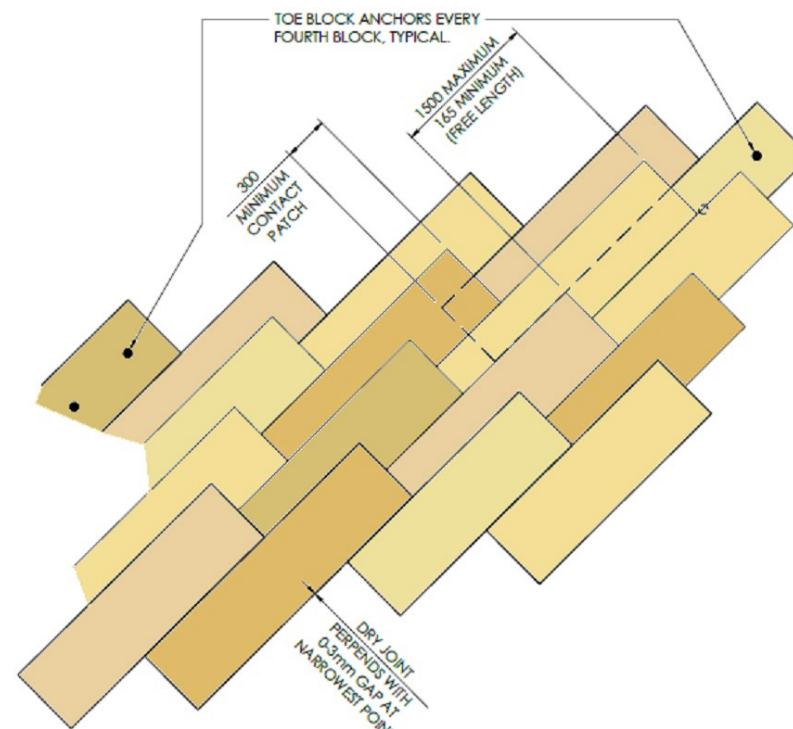


The revetment structure will be formed using sandstone logs, nominal size 2.0 x 0.5 x 0.5m, positioned in front of the existing sandbags, which will:

- Minimise impact on midden & araucaria roots
- Provide foreshore access while addressing public safety
- Provide a staggered bayside face that will minimise reflection of waves and impacts on adjacent foreshore areas
- Adopt sympathetic materials that:
  - Are similar to the rock platform beneath the revetment is to be located,
  - Are similar to existing heritage structures at Kamay
  - Have less visual impact than other alternatives
- Support interpretation via engravings in the top course of stone, a connection to country element being developed with Gujaga Foundation and community



## PROPOSED CROSS SECTION



## PROPOSED BLOCK PLACEMENT





# PROPOSED DESIGN



PROPOSED PLAN



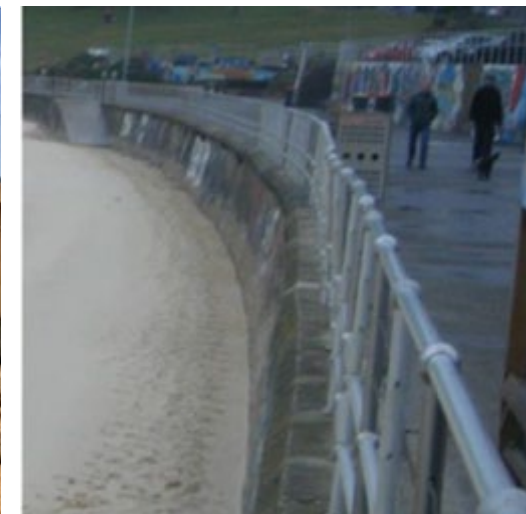
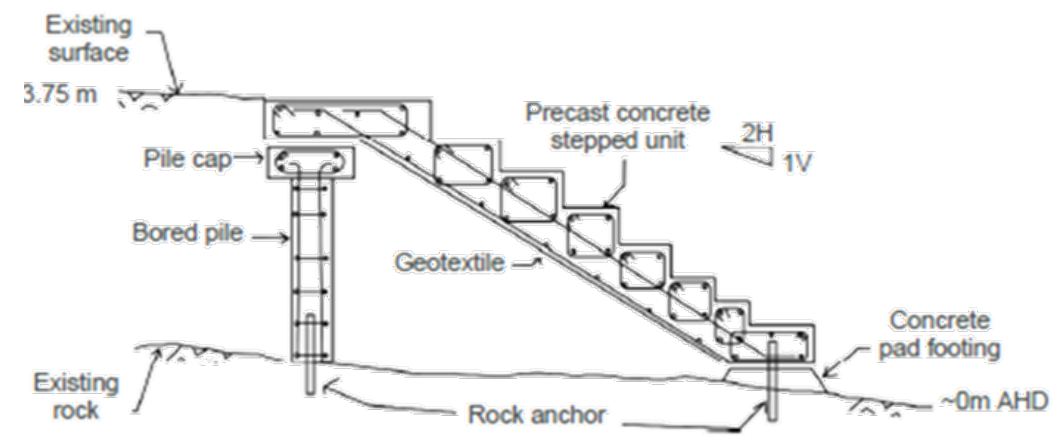
INDICATIVE MATERIALITY





## ALTERNATE CONSIDERED DESIGNS

- Options report commissioned in 2018 analysed sea level rise forecasts, swell wave height, sediment transportation and shoreline evolution, archaeological considerations and wave propagation onto Silver Beach and costs, and identified a range of approaches to address the 2018 storm erosion. This resulted in the temporary sandbags being installed pending design of a long-term revetment.
- Further coastal process reporting in 2021 further analysed these factors and concluded the entire 220m section of foreshore between the wharf and Commemoration Flat needed protection.
- Alternatives considered during the design process included a range of concrete, stone and rock armour options, however each of these lacked many of the benefits of the sandstone log design as proposed.





REPORTS AND APPROVALS	DATE
Statement of Environmental Effects	May 2024
Department of Primary Industries Compliance Letter	May 2024
Aquatic Ecology Assessment	April 2024
Section 60 Heritage Approval	February 2024
Aboriginal Cultural Heritage Assessment Report	December 2023
Heritage Impact Statement	September 2023
Historical Archaeological Assessment	September 2023
Biodiversity Assessment Report	March 2023
Flora and Fauna Assessment Report	September 2022
Kamay Botany Bay National Park Master Plan	February 2019



COMMUNITY CONSULTATION	DATE
Pre-Master Plan targeted community and stakeholder engagement managed by Context Pty Ltd, including stakeholder workshops and interviews, focus groups, online and on-site surveys, community information sessions, presentations	June to December 2016
Public exhibition of the draft Master Plan	April to August 2018
Appointment of Kamay Project Board comprising key stakeholder representatives	November 2018
Community information day presenting developed designs to invitees from the La Perouse community	October 2021
La Perouse Local Aboriginal Land Council online briefing	September 2021
La Perouse Local Aboriginal Land Council site briefing	November 2021
Community drop-in sessions with Transport for NSW held at Kurnell	December 2023
Community drop-in sessions held at Kurnell on 2 separate dates	January 2024
Community drop-in sessions with Transport for NSW held at La Perouse	February 2024
Gujaga Foundation ongoing engagement for interpretation design	Ongoing



# Thank you!



Department of Climate Change, Energy, the Environment and Water