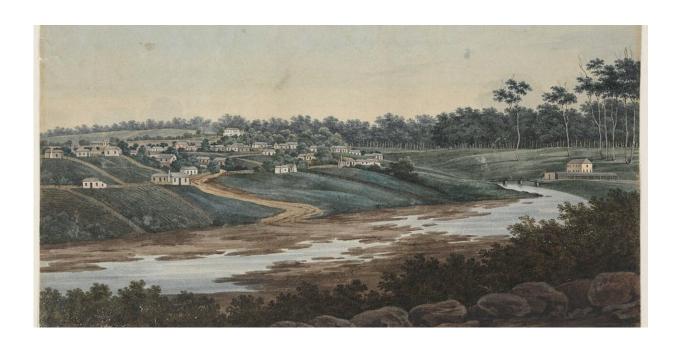


We revisited Parramatta's archaeological past to reveal the deep-time history of the heart of Sydney

November 9 2021, by Alan N Williams, Jo McDonald



Australian paintings by J.W. Lewin, G.P. Harris, G.W. Evans and others, 1796-1809; State Library of NSW, Author provided

We know quite a lot about the past 200 years of history in Parramatta. Located in Sydney's geographical center, on the Parramatta River, it was the first township to be established outside Sydney Cove's penal colony after the First Fleet arrived at Port Jackson in 1788.



Parramatta became the breadbasket of the early European colony, with land clearing and farming dispossessing the Darug people of the Cumberland Plain. This formed the focus of Aboriginal resistance, culminating in the 1797 Battle of Parramatta led by the great freedom fighter <u>Pemulwuy</u>.

Parramatta's European history is evident to those who wander through it today—with the remains of old buildings and signs of historical events on almost every corner.

But what about before 1788?

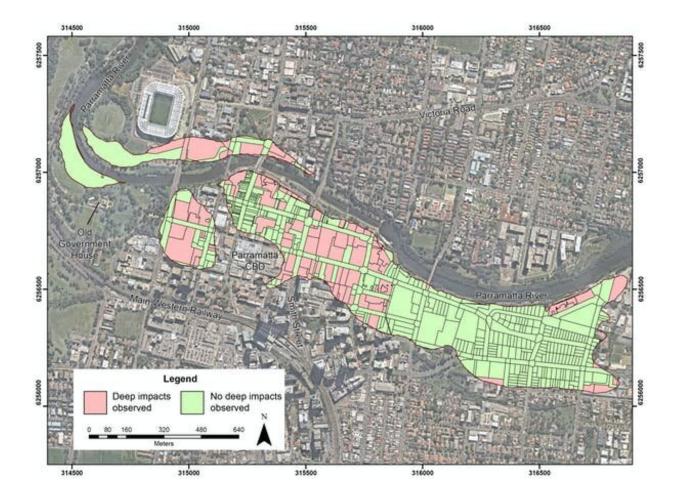
Parramatta has seen intensified development in recent years. High-rise buildings, light rail, road upgrades and landscaping have all impacted the remaining <u>archaeological record</u> of both its deep history and more recent colonial past.

New South Wales's current state planning laws require each new development to have an archaeological investigation conducted before it proceeds. The aim is to identify <u>archaeological evidence</u> before development starts, and make sure it is managed appropriately.

Where sites are of high cultural or scientific significance, there is an emphasis on protection. Otherwise, the evidence is recorded and recovered before development proceeds. There have been more than 40 such studies in the past 15 or so years.

In our <u>article published today</u> we review these studies to provide a definitive understanding of their results, and reiterate the importance of Parramatta's culturally significant deep-time history.





A map showing the distribution of the sand body, and areas where sand deposits have been disturbed or removed (in red).

14,000 years of Indigenous history

Paramatta's urban center has grown upon a more than 3-meter-thick layer of <u>sand</u>. This sand began to be deposited by the Parramatta River 50,000–60,000 years ago as a result of massive floods and other extreme environmental conditions. It continued to be deposited sporadically until about 5,000 years ago.

It's estimated about 800,000 tons of sand were deposited across two



kilometers of the CBD, where it is still found today. This is all the more impressive when you consider the Parramatta River is fed by only a relatively small catchment upstream.

This sand was blown around during the last Ice Age (or the "Last Glacial Maximum") between 20,000 and 30,000 years ago. Ultimately this reworking resulted in a sand sheet of about 70 hectares, or roughly 100 football fields. Unfortunately, our study found some 29% of these deposits have been destroyed through development over the past 15 years or so.

This sand body has been in place since the First Nations people arrived on the continent 50,000 (or more) years ago. It retains an amazing archive of evidence that reveals their use of the landscape in deep time, and also records major climatic changes.





An excavation at the corner of Charles and George Street revealed Indigenous and historic remains survived the construction of a factory here in the 1950s. The site has now been destroyed by subterranean car parking for apartments. Credit: Jo McDonald CHM 2005 report

So far, our earliest evidence for Aboriginal people in the Sydney region is from along the Hawkesbury-Nepean River around <u>36,000 years ago</u>.

While the Parramatta sand sheet does provide glimmers of evidence for people using it back then, our analyses show they mostly visited this part of the Parramatta River after the Ice Age, which is supported by layers of artifacts in the area dated to this time.

Moving with the tide

Specifically, our paper explores three archaeological projects on the sand sheet at George Street, Hassall and Wigram Streets, and in the grounds of the Bayanami School. All of these sites show increased human use at a time of significant sea-level change.

About 14,000 years ago, the large ice sheets that characterized the glacial period began to melt rapidly. By 9,000 years ago, the <u>sea level</u> in Australia went from 125 meters below current levels to current levels.





An andalusite hornfels stone tool found on the north side of Parramatta River was dated to 14,000 years ago, more than 70km away from the CBD. Credit: Laressa Barry

This inundation of more than 2 million square kilometers drove people off the continental shelf all around Australia, including from the Sydney Basin. We find fewer sites in Sydney, or indeed the entire southeast corner of Australia, that date to before this sea-level rise.

A previous <u>study</u> of one of these key archaeological sites showed people were highly mobile as a result of this sea-level rise beginning 14,000 years ago. One stone artifact dated to 14,000 years ago was sourced from



the Megalong Valley, west of the Blue Mountains, 70km from Parramatta. Most earlier artifacts were sourced from the Hawkesbury River gravels, about 40km away.

Then, over the past 10,000 years, we see a massive increase in local site use and visitation. People used a different stone material for artifacts sourced widely from across the <u>Cumberland Plain</u> (western Sydney), reflecting greater local knowledge of stone resources, longer occupations and likely different trade and exchange networks.

A range of tools have also been found, including grindstones, ax-heads, backed artifacts (such as spear barbs), hearths with heat retainers and heat-treated raw materials—all of which indicate repeated residence over long periods.

Similarly, parts of the sand body with more artifacts also show evidence of camping sites which have retained their structure, demonstrating repeated use. One rare finding at the corner of Charles and George Streets was a pierced shark tooth that was probably used as a hair decoration.





Sharks tooth ornament overlain on an image painted at Port Jackson of an Aboriginal man with fishing gear and fish teeth hair ornaments. Credit: Excerpt from a work by the Port Jackson Painter 1788-1792

Our analysis fills an important gap in the Indigenous past of one of the oldest townships in Australia. It reinforces the importance of undertaking heritage assessments in areas which are thought to already be "disturbed."

It also provides a timely reminder these archaeological and cultural landscapes are finite, and are being lost at an unprecedented rate.



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