Environmental Health Referral Response - acid sulfate soils

Application Number:	DA2023/0721
Proposed Development:	Alterations and Additions - Construction of a jetty, stairs and associated works
Date:	19/07/2023
Responsible Officer	Megan Surtees
Land to be developed (Address):	Lot E DP 404485 , 1742 Pittwater Road BAYVIEW NSW 2104 Lot 4 DP 455969 , 1742 Pittwater Road BAYVIEW NSW 2104 Lot LIC 627828 , 1742 Pittwater Road BAYVIEW NSW 2104 Lot B DP 390788 , 1744 Pittwater Road BAYVIEW NSW 2104 Lot PO 164136 , 1744 Pittwater Road BAYVIEW NSW 2104

Reasons for referral

This application seeks consent for one or more of the following:

- All development in class 1 land
- Any works below ground surface or will lower water table in area class 2 land
- Any works beyond 1 metre or lower water table by 1 metre in class 3 land
- Any works beyond 2 metres or lower water table by 2 metres in class 4 land
- Works on land below 10 metres AHD and within 500m of class 1, 2, 3 or 4 land which are likely to lower water table below 1 metre

And as such, Council's Environmental Investigations officers are required to consider the likely impacts.

Officer comments
General Comments
The applicant advises in the SEE :
Acid Sulphate Soils (PLEP 7.1)
• The Acid Sulphate Soils Map ASS_011 indicates part of the subject freehold land as Class 5 and part Class 2, and the land below the MHW boundary as Class 1. The proposal does not require consent in accordance with section 7.1(6) of PLEP as the proposal does not involve the disturbance of more than 1 tonne of soil for the reconfiguration of the corner of No.1742 seawall and access steps,
• The Impacts of the proposal on Acid Sulfate Soils have been documented in the preliminary assessment of Acid Sulfate Soils for both properties and for the proposed shared jetty by White Geotechnical Group (reports enclosed).

The White Geotechnical Group Report 30 May 2023 states:
Acid Sulfate Soils
The clays encountered near the lower boundary are in situ and derived from the Newport Formation Shales. This formation is Middle Triassic in age and is much older than the Holocene sediments from which acid sulphates are generally derived from on the east coast. Additionally, Newport Formation Shale does not contain high concentrations of sulphides which can provide the required iron concentrations for acid generation in older bedrock.
In the location of the jetty over the river sediment, as driven pile foundations do not require

excavation and exposure of the subsurface soil profile to oxygen, there is little potential for acid generation.

This assessment indicates that an Acid Sulfate Soils management plan is not required for the proposed works.

Environmental Health supports the proposal with conditions.

The proposal is therefore supported.

Note: Should you have any concerns with the referral comments above, please discuss these with the Responsible Officer.

Recommended Environmental Investigations Conditions:

CONDITIONS TO BE COMPLIED WITH DURING DEMOLITION AND BUILDING WORK

Requirement to notify about new Acid Sulfate Soils evidence
Any new information revealed during excavation works that has the potential to alter previous conclusions about Acid Sulfate Soils shall be immediately notified to the Council and the Principal Certifier and a report be obtained from a suitably qualified person. Any recommendations provided by the report are to be complied with during works.

Reason: To protect the environment.