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:	04/07/2023
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
Demolish the existing seawall and pool and construct a new seawall, pool, boat ramp, and boatshed on the downhill side of the property by excavating to a maximum depth of ~1.9m for the boatshed

White Geotechnical Group 10.Sept 2019 advise:
No Acid Sulfate Soils were identified in the test holes. The pHF levels tested in all auger holes did not fall lower than 6.7. This is above a PH of 4 that is an indicator of acid sulfate soils. No Potential Acid Sulfate Soils were identified in the test holes. The measured pHF levels varied up to 0.7 from the measured pHFOX levels. A movement of 1 unit or more is an indicator of potential acid sulfate soils. In addition, the measured pHFOX for all tests did not fall lower than 6.8. A pHFOX <3 is a strong indicator of potential acid sulfate soils. No observable colour change or sulphurous odours were identified during the peroxide testing. No reactions to peroxide testing were observed.
This preliminary 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.