

Environmental Health Referral Response - acid sulfate soils

Application Number:	DA2022/0948
Date:	01/07/2022
Responsible Officer	Dean Pattalis
Land to be developed (Address):	Lot 100 DP 1196629 , 129 Riverview Road AVALON BEACH NSW 2107

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

Proposal for a jetty, piles and floating pontoon has triggered a review of risk of exposing acid sulfate soils (ASS). Due to the nature of the works in Class 1 soils, it is highly unlikely that significant ASS will be oxidised through exposure to air. Piles will be driven into the soil resulting in sediment remaining underwater. As stated in the ASS report, we recommend the below conditions of precautionary measures be taken during works.

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

Precautionary Acid Sulfate Soil Protection Measures

During works the following measures must be implemented to reduced the likelihood of oxidation of acid sulfate soils:

- Use of silt curtains to minimise any movement, specifically outwards spread, of sediment and hasten the settlement process once the disturbance has ceased.
- The use of specific barge mounted piling equipment.
- The washing down, from the water barge, of any removed piles prior to relocate them for

destruction or reuse. If immediate washing down is not possible, then the cleaning of said piles into water within a short window (usually 12-18 hours) and the recording of such activities for future reference.

Reason: Prevent environmental harm.