alliance

 Phone:
 1800 288 188

 Email:
 office@allgeo.com.au

 Website:
 www.allgeo.com.au

 ABN:
 62 106 885 214

3/12/2024

Ref: 18412-ER-1-1

Pittwater RSL Club Ltd 82 Mona Vale Rd Mona Vale NSW 2103

Attention: Jarrod Simpson (jarrod.simpson@linkedpm.com.au)

Project: Acid Sulfate Soils Assessment at Pittwater RSL Club, 82 Mona Vale Rd, Mona Vale NSW 2103

1 Introduction

Alliance Geotechnical Pty Ltd (Alliance) was engaged by Pittwater RSL Club Ltd (the client) c/o Linked Project Management to provide environmental consulting services (the Services) for Pittwater RSL Club, 82 Mona Vale Rd, Mona Vale NSW 2103 (the site). The site boundaries and existing site layout are provided within **Figure 1**.

Alliance understands that:

- The site is comprised of Lot 52 in DP1237461;
- The site covers an area of approximately 15,500m²;
- The site is owned by the client;
- The site is an existing RSL club, which is proposed for redevelopment, including construction of a new lift and lift access corridor below the existing ground slab level, and new carpark pavement in the western portion of the site. A copy of the redevelopment plans are attached to this letter; and
- The client requires an acid sulfate soils (ASS) assessment to assist the client address development consent decision making processes relevant to Clause 7.1 of the Pittwater Local Environmental Plan 2014; and
- The maximum depth of soil disturbance associated with the redevelopment will be greater than 3m below ground level (bgl), however rock is anticipated from approximately 2.5m bgl.

2 Objectives

Alliance understands the objectives of this project were:

- Assess the potential for ASS to be present at the site, that may be disturbed by the proposed redevelopment works;
- Assess whether the proposed redevelopment works will be carried out on land that is within 500 metres of adjacent Class 1, 2, 3 or 4 land that is below 5 metres Australian Height Datum (AHD) and by which the watertable is likely to be lowered below 1 metre AHD on adjacent Class 1, 2, 3 or 4 land; and
- Provide recommendations for further ASS assessment and/or management (if warranted).

3 Scope of Work

Alliance undertook the following scope of work to address the project objective:

a desktop review; and

• data assessment and reporting.

4 Desktop Review

4.1 Geology

The Department of Mineral Resources Geological Survey of NSW Sydney 1:100,000 Geological Series Sheet 9130 (Edition 1) 1983, indicated that the site is likely to be underlain by the Newport Formation comprising Interbedded laminite, shale and sandstone; white quartz to quartz-lithic, very fine- to medium-grained sandstone; minor shale breccia and pebble polymictic conglomerate (at base of sandstone units); minor red clays.

4.2 Site Topography and Elevation

A review of 10m topographic contours accessed via https://minview.geoscience.nsw.gov.au/ indicated that:

- The elevation of the west of the site is approximately 30m AHD, with the site sloping upwards towards the east;
- The elevation of the east of the site is approximately 40m AHD;
- The lowest elevation in a 500m radius to the site is approximately 12m AHD; and
- The highest elevation in a 500m radius to the site is approximately 60m AHD.

4.3 Acid Sulfate Soils Mapping

A review of https://www.environment.nsw.gov.au/eSpade2Webapp indicated that the site is located in an area mapped as:

• N: no known occurrence.

This mapping dataset is shown on **Figure 2** with a 500m radius added around the site. The dataset indicates there are no areas of mapped acid sulfate soils within 500m of the site.

4.4 Local Environmental Plan Mapping

A review of the Pittwater Local Environmental Plan 2014 Acid Sulfate Soils Map – Sheet ASS_012 indicates that:

- the site is located on Class 5 land; and
- land located within a 500m radius of the site is located on Class 5 land, and not Class 1, 2, 3 or 4 land:

An extract of this map sheet is provided within Figure 3, along with a 500m radius mark up around the site.

4.5 Proposed Development

The proposed development works will include:

- excavations for the lift pit and lift foundations; and
- excavations for the carpark pavement works.

Based on Alliance's experience in similar site settings and on comparable projects, Alliance considers the potential for the proposed development works to result in lowering of the groundwater table, to be negligible.

5 Conclusions

Based on the findings of Alliance's desktop review, Alliance makes the following conclusions:

- The potential for ASS to be present at the site, that may be disturbed by the proposed redevelopment works, is negligible;
- The proposed development works, in the context of Clause 7.1 of the Pittwater Local Environmental Plan 2014:
 - will not be carried out on land that is within 500 metres of adjacent Class 1, 2, 3 or 4 land that is below 5 metres Australian Height Datum (AHD); and
 - will not result in the water table being lowered below 1 metre AHD on adjacent Class 1, 2, 3 or 4 land.

6 Closing

Sam Willis

We trust this advice meets with your current needs. Should you require clarification on its content, please contact the undersigned.

The advice in this letter must be read in conjunction with the attached 'Important Information About This Report'.

For and on behalf of Alliance Geotechnical Pty Ltd



Attachments Important Information About This Report Figures Proposed Development Plans

Important Information About This Report

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This report must be reviewed in its entirety and in conjunction with the objectives, scope, and terms applicable to Alliance's engagement. The report must not be used for any purpose other than the purpose specified at the time Alliance was engaged to prepare the report.

The findings presented in this report are based on specific data and information made available during the course of this project. To the best of Alliance's knowledge, these findings represent a reasonable interpretation of the general condition of the site at the time of report completion.

No warranties are made as to the information provided in this report. All conclusions and recommendations made in this report are of the professional opinions of personnel involved with the project and while normal checking of the accuracy of data has been conducted, any circumstances outside the scope of this report or which are not made known to personnel and which may impact on those opinions is not the responsibility of Alliance.

Logs, figures, and drawings are generated for this report based on individual Alliance consultant interpretations of nominated data, as well as observations made at the time fieldwork was undertaken.

Data and/or information presented in this report must not be redrawn for its inclusion in other reports, plans or documents, nor should that data and/or information be separated from this report in any way.

Should additional information that may impact on the findings of this report be encountered or site conditions change, Alliance reserves the right to review and amend this report.





Produced by **Datanest.earth**

Title: Site Location and Layout Plan

Client: Pittwater RSL Club Ltd		Size: A3
Project: Pittwater RSL Club	Drawn: SW	Figure No.: 1
Date: 29-11-2024	Checked: CC	
Proj No: 18412	Scale: 1:1340	Version: ER-1-1



Legend

Site Boundary
 500m Radius

0 250 m 500 m © Nearmap, NSW Department of Planning and

. Environment

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Produced by **Datanest.earth**

Title: Acid Sulfate Probability

Client: Pittwater RSL Club Ltd		Size: A3
Project: Pittwater RSL Club	Drawn: SW	Figure No.: 2
Date: 29-11-2024	Checked: CC	
Proj No: 18412	Scale: 1:11239	Version: ER-1-1





Legend

🔲 Site Boundary 500m Radius

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0	250 m	500 m
	© Nearmap	

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Produced by **Datanest.earth**

Title: Pittwater LEP Acid Sulfate Map Extract

1000	Client: Pittwater RSL Club Ltd		Size: A3
	Project: Pittwater RSL Club	Drawn: SW	Figure No.: 3
	Date: 29-11-2024	Checked: CC	
	Proj No: 18412	Scale: 1:13426	Version: ER-1-1







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