

6 July 2016 E22705 GB

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**Dear Anthony** 

RE: Changes to Architectural Drawings Proposed New Residence 2177 Pittwater Road, Church Point, NSW

At the request of Sahara Capital Pty Ltd (Sahara), El Australia (El) previously completed a geotechnical Assessment report for the proposed development at 2177 Pittwater Road, Church Point, NSW (the Site) referenced E22705 GA Rev1, dated 15 October 2015. El understands that the architectural drawings which were provided by Sahara for the preparation of the above referenced report have since been revised.

Sahara has provided EI with revised Architectural drawings of the proposed new residence prepared by N. Lycenko Architect – Project *Proposed New Residence* for No 2177 Pittwater Road, Church Point NSW, Drawing Nos. SEC82A/A01 to SEC82A/A11, dated 8 June 2015.

Following our telephone conversation with the architect and our review of the updated architectural drawings referenced above, we understand that the proposed bulk excavation levels for the basement and swimming pool have remained the same

Based on the above EI considers that the previous comments and recommendations outlined in the above referenced geotechnical report are adequate for the current proposed development.

### Limitations

This report has been prepared for the exclusive use of Sahara Capital Pty Ltd who is the only intended beneficiary of El's work. The scope of the inspections carried out for the purpose of this report is limited to those agreed with Sahara Capital Pty Ltd (Mr Anthony Khoury).

No other party should rely on the document without the prior written consent of EI, and EI undertakes no duty, or accepts any responsibility or liability, to any third party who purports to rely upon this document without EI's approval.

El has used a degree of care and skill ordinarily exercised in similar investigations by reputable members of the geotechnical industry in Australia as at the date of this document. No other warranty, expressed or implied, is made or intended. Each section of this report must be read in conjunction with the whole of this report, including its appendices and attachments.

The conclusions presented in this report are based on a limited investigation of conditions, with specific sampling locations chosen to be as representative as possible under the given circumstances.

El's professional opinions are reasonable and based on its professional judgment, experience, training and results from analytical data. El may also have relied upon information provided by the Client and other third parties to prepare this document, some of which may not have been verified by El.

El's professional opinions contained in this document are subject to modification if additional information is obtained through further investigation, observations, or validation testing and analysis during remedial activities. In some cases, further testing and analysis may be required, which may result in a further report with different conclusions.

RE: Changes to Architectural Drawings 2177 Pittwater Road, Church Point, NSW Report No. E22705 GB

Page | 2



# Closure

Please do not hesitate to contact the undersigned should you have any questions.

For and on behalf of,

**ENVIRONMENTAL INVESTIGATIONS** 

Alexander Mark Hanna

Geotechnical Engineer

Attachments: Important Information

Joseph Chaghouri

Senior Geotechnical Engineer

# **Important Information**



#### **SCOPE OF SERVICES**

The geotechnical report ("the report") has been prepared in accordance with the scope of services as set out in the contract, or as otherwise agreed, between the Client And El Australia ("El"). The scope of work may have been limited by a range of factors such as time, budget, access and/or site disturbance constraints.

#### **RELIANCE ON DATA**

El has relied on data provided by the Client and other individuals and organizations, to prepare the report. Such data may include surveys, analyses, designs, maps and plans. El has not verified the accuracy or completeness of the data except as stated in the report. To the extent that the statements, opinions, facts, information, conclusions and/or recommendations ("conclusions") are based in whole or part on the data, El will not be liable in relation to incorrect conclusions should any data, information or condition be incorrect or have been concealed, withheld, misrepresented or otherwise not fully disclosed to El.

## **GEOTECHNICAL ENGINEERING**

Geotechnical engineering is based extensively on judgment and opinion. It is far less exact than other engineering disciplines. Geotechnical engineering reports are prepared for a specific client, for a specific project and to meet specific needs, and may not be adequate for other clients or other purposes (e.g. a report prepared for a consulting civil engineer may not be adequate for a construction contractor). The report should not be used for other than its intended purpose without seeking additional geotechnical advice. Also, unless further geotechnical advice is obtained, the report cannot be used where the nature and/or details of the proposed development are changed.

#### LIMITATIONS OF SITE INVESTIGATION

The investigation programme undertaken is a professional estimate of the scope of investigation required to provide a general profile of subsurface conditions. The data derived from the site investigation programme and subsequent laboratory testing are extrapolated across the site to form an inferred geological model, and an engineering opinion is rendered about overall subsurface conditions and their likely behaviour with regard to the proposed development. Despite investigation, the actual conditions at the site might differ from those inferred to exist, since no subsurface exploration program, no matter how comprehensive, can reveal all subsurface details and anomalies. The engineering logs are the subjective interpretation of subsurface conditions at a particular location and time, made by trained personnel. The actual interface between materials may be more gradual or abrupt than a report indicates.

#### SUBSURFACE CONDITIONS ARE TIME DEPENDENT

Subsurface conditions can be modified by changing natural forces or man-made influences. The report is based on conditions that existed at the time of subsurface exploration. Construction operations adjacent to the site, and natural events such as floods, or ground water fluctuations, may also affect subsurface conditions, and thus the continuing adequacy of a geotechnical report. El should be kept appraised of any such events, and should be consulted to determine if any additional tests are necessary.

#### **VERIFICATION OF SITE CONDITIONS**

Where ground conditions encountered at the site differ significantly from those anticipated in the report, either due to natural variability of subsurface conditions or construction activities, it is a condition of the report that EI be notified of any variations and be provided with an opportunity to review the recommendations of this report. Recognition of change of soil and rock conditions requires experience and it is recommended that a suitably experienced geotechnical engineer be engaged to visit the site with sufficient frequency to detect if conditions have changed significantly.

#### REPRODUCTION OF REPORTS

This report is the subject of copyright and shall not be reproduced either totally or in part without the express permission of this Company. Where information from the accompanying report is to be included in contract documents or engineering specification for the project, the entire report should be included in order to minimize the likelihood of misinterpretation from logs.

# REPORT FOR BENEFIT OF CLIENT

The report has been prepared for the benefit of the Client and no other party. El assumes no responsibility and will not be liable to any other person or organisation for or in relation to any matter dealt with or conclusions expressed in the report, or for any loss or damage suffered by any other person or organisation arising from matters dealt with or conclusions expressed in the report (including without limitation matters arising from any negligent act or omission of El or for any loss or damage suffered by any other party relying upon the matters dealt with or conclusions expressed in the report). Other parties should not rely upon the report or the accuracy or completeness of any conclusions and should make their own inquiries and obtain independent advice in relation to such matters.

## OTHER LIMITATIONS

El will not be liable to update or revise the report to take into account any events or emergent circumstances or fact occurring or becoming apparent after the date of the report.