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# Site Classification Report

**Proposed Retaining Wall Construction**

**130 (LOT 49) Bill Watson Wy**

**Pallara QLD 4110**

**Prepared for**

**Ealias Kollamparambil Joy**

**Document Reference**

**Date 20/03/2024 Our Ref: 24MS067**



Viper Soil Testing Pty Ltd has completed a site investigation for this project only and solely for the purposes as described in this report.

## PREAMBLE

Viper Soil Testing was requested by Ealias Kollamparambil Joy to undertake a site investigation at 130 (LOT 49) Bill Watson Wy, Pallara QLD 4110 and to report the site classification in accordance with Australian Standard AS 2870 “Residential slabs and footings”.

Our investigation was aimed at providing data to enable us to classify the site at the location of the proposed retaining wall by drilling three boreholes with a 100mm truck mounted auger to a depth of three metres, samples were taken and the profile was logged. As such the investigation is limited in extent and does not constitute a comprehensive geotechnical investigation. While AS 2870 relates to residential style construction, it is a valuable method of classification and provides useful information on the site soil conditions for the design of other structures.

## SITE CLASSIFICATION

A site investigation was carried out to classify the site into one of the standard classes defined in AS 2870. From this classification, an appropriate footing and slab system can be recommended to enable adequate performance of the footing for the site soil conditions. The investigation included an attempt to locate existing underground services. Soil sample testing and classification was carried out under the provisions of AS 2870.

This investigation included drilling a limited number of boreholes to establish the existing soil conditions at the time of the investigation, and therefore there is a possibility of local variations in subsurface conditions. If variations are found onsite to those in this report during footing construction it is important that this office and the design engineer be contacted for further advice.

Testing was undertaken on a representative soil sample from this site to determine the reactivity of the soil. Results of this testing were as follows:

| Soil Sample Location    | Soil Description                                                                      | Shrink Swell Index, $I_{ss}$ (%) |
|-------------------------|---------------------------------------------------------------------------------------|----------------------------------|
| Borehole 1<br>1200-1500 | Sandy Silty Clay (Orange, Light Brown, Grey) Moist, High Plasticity, Very Stiff<br>CH | 5.5                              |

On the conclusion of our site investigation, testing, and our experience with the materials found, the soils on this site are considered to be highly reactive to normal variation in seasonal soil moisture content with an estimated design surface movement (ys) of between 60mm and 75mm.

The bearing capacity was tested using a dynamic cone penetrometer (DCP) and found existing stiff materials encountered on site that are considered to have sufficient strength to support >100kPa loads.

Due to the depth of fill encountered on site, this site is defined by the Australian Standard AS 2870 as:

### **Class P**

With respect to potential surface movements, the reactivity of the soil profile would generally be considered equivalent to a Class **H2** site.

## **DESIGN CONSTRUCTION AND MAINTENANCE**

The site classification in this report is based upon site soil information that was obtained during the site investigation. Information supplied by the client, including the type of building proposed, location of the building and any known details of the past history of the site is taken into account when determining the site classification. The design of footings and slabs for a residence on this site should be carried out in accordance with the requirements of AS 2870 “Residential Slabs and Footings” code. Construction practices and standard of workmanship generally are to be strictly in accordance with the requirements of that Standard. Design and construction of other structures should be carried out in accordance with engineering principles.

For plumbing purposes, articulation is recommended satisfying a **H2** class site.

This site investigation was limited in the identification and location of underground services. As the influence of buried services can be extensive and damaging, it is vital that the location and depth of such services be determined and appropriately allowed for in the design and construction.

This site classification does not take into account changes made to the site after the investigation date. Changes may include cutting or filling the site, and introduction of trees and shrubs. Special attention should be given to the CSIRO, BTF 18, “foundation Maintenance and Footing Performance: A Homeowners Guide” document.

## **LIMITATIONS**

The site investigation and classification of this site has been carried out by Viper Soil Testing for this project and it should not be relied upon for other projects or purposes on this or another site. The classification of this site has been based on a limited, surface-based investigation. If the more extensive examination allowed by platform construction and footing excavation reveals conditions different from those expected, it is important that the classification and design be confirmed prior to construction. If you require any further information concerning this report, please contact this office.

M.R. McG

Mitchell McGilvery (Director)

QBCC Site Classifier Licence No. 15391189

**Viper Soil Testing PTY LTD**

QBCC Site Classifier Licence No. 15305939

## Site Investigation Record

|                                                                                                           |                                                                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Client:</b> Ealias Kollamparambil Joy<br><b>Address:</b> 130 (LOT 49) Bill Watson Wy, Pallara QLD 4110 | <b>Site Description:</b> The site contains an existing residence with a slope from front to rear. The site appears to be moderately drained.<br><br><b>ROCK:</b> No<br><b>WATER TABLE:</b> No<br><b>FILL:</b> Yes |
|-----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Borehole 1:**
**Location:** Refer to site plan. Truck mounted continuous flight auger.

| Depth                                  | Group Symbol       | Description                                                                     |  | Founding Material | D<br>C<br>P |
|----------------------------------------|--------------------|---------------------------------------------------------------------------------|--|-------------------|-------------|
| 0                                      | SM                 | Sandy Silt (Brown, Light Brown)                                                 |  | Suitable          | 3           |
| 100                                    | STIFF NATURAL      | Moist, Stiff                                                                    |  | >100kPa           | 3           |
| 200                                    |                    |                                                                                 |  |                   | 4           |
| 300                                    |                    |                                                                                 |  |                   |             |
| 400                                    | CH                 | Sandy Silty Clay (Orange, Light Brown) Moist, High Plasticity, Stiff            |  | Suitable          | 4           |
| 500                                    | STIFF NATURAL      |                                                                                 |  | >100kPa           | 4           |
| 600                                    |                    |                                                                                 |  |                   | 4           |
| 700                                    |                    |                                                                                 |  |                   | 3           |
| 800                                    |                    |                                                                                 |  |                   | 4           |
| 900                                    |                    |                                                                                 |  |                   | 4           |
| 1000                                   |                    |                                                                                 |  |                   | 5           |
| 1100                                   |                    |                                                                                 |  |                   | 4           |
| 1200                                   | CH                 | Sandy Silty Clay (Orange, Light Brown, Grey) Moist, High Plasticity, Very Stiff |  | Suitable          | 5           |
| 1300                                   | VERY STIFF NATURAL |                                                                                 |  | >100kPa           | 5           |
| 1400                                   |                    |                                                                                 |  |                   | 5           |
| 1500                                   |                    |                                                                                 |  |                   | 6           |
| 1600                                   |                    |                                                                                 |  |                   | 5           |
| 1700                                   |                    |                                                                                 |  |                   | 5           |
| 1800                                   |                    |                                                                                 |  |                   | 6           |
| 1900                                   |                    |                                                                                 |  |                   | 6           |
| 2000                                   |                    |                                                                                 |  |                   |             |
| 2100                                   |                    |                                                                                 |  |                   |             |
| 2200                                   |                    |                                                                                 |  |                   |             |
| 2300                                   |                    |                                                                                 |  |                   |             |
| 2400                                   |                    |                                                                                 |  |                   |             |
| 2500                                   |                    |                                                                                 |  |                   |             |
| 2600                                   |                    |                                                                                 |  |                   |             |
| 2700                                   |                    |                                                                                 |  |                   |             |
| 2800                                   |                    |                                                                                 |  |                   |             |
| 2900                                   |                    |                                                                                 |  |                   |             |
| 3000                                   |                    |                                                                                 |  |                   |             |
| Termination of Log. End of Borehole 1. |                    |                                                                                 |  |                   |             |

**Borehole 2:****Location:** Refer to site plan. Truck mounted continuous flight auger.

| Depth                                  | Group Symbol             | Description                                                                         |  | Founding Material   | D<br>C<br>P |
|----------------------------------------|--------------------------|-------------------------------------------------------------------------------------|--|---------------------|-------------|
| 0                                      | SM<br>FILL               | Sandy Silt (Brown) Moist, Stiff                                                     |  | Unsuitable (FILL)   |             |
| 100                                    | CH<br>FILL               | Sandy Silty Clay (Brown, Light Brown) Moist, High Plasticity, Stiff                 |  | Unsuitable (FILL)   | 3           |
| 200                                    |                          |                                                                                     |  |                     | 4           |
| 300                                    |                          |                                                                                     |  |                     | 4           |
| 400                                    |                          |                                                                                     |  |                     | 4           |
| 500                                    | CH<br>FILL               | Sandy Silty Clay (Dark Brown, Light Brown, Grey, Red) Moist, High Plasticity, Stiff |  | Unsuitable (FILL)   | 4           |
| 600                                    |                          |                                                                                     |  |                     | 4           |
| 700                                    |                          |                                                                                     |  |                     | 3           |
| 800                                    |                          |                                                                                     |  |                     | 4           |
| 900                                    |                          |                                                                                     |  |                     | 3           |
| 1000                                   | CH<br>FILL               | Sandy Silty Clay with Gravel (Dark Brown, Grey) Moist, High Plasticity, Stiff       |  | Unsuitable (FILL)   | 4           |
| 1100                                   |                          |                                                                                     |  |                     | 4           |
| 1200                                   | CH<br>STIFF NATURAL      | Sandy Silty Clay (Orange, Light Brown) Moist, High Plasticity, Stiff                |  | Suitable<br>>100kPa | 4           |
| 1300                                   |                          |                                                                                     |  |                     | 5           |
| 1400                                   |                          |                                                                                     |  |                     | 4           |
| 1500                                   | CH<br>VERY STIFF NATURAL | Sandy Silty Clay (Orange, Light Brown, Grey) Moist, High Plasticity, Very Stiff     |  | Suitable<br>>100kPa | 5           |
| 1600                                   |                          |                                                                                     |  |                     | 6           |
| 1700                                   |                          |                                                                                     |  |                     | 6           |
| 1800                                   |                          |                                                                                     |  |                     | 5           |
| 1900                                   |                          |                                                                                     |  |                     | 6           |
| 2000                                   |                          |                                                                                     |  |                     |             |
| 2100                                   |                          |                                                                                     |  |                     |             |
| 2200                                   |                          |                                                                                     |  |                     |             |
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| 2400                                   |                          |                                                                                     |  |                     |             |
| 2500                                   |                          |                                                                                     |  |                     |             |
| 2600                                   |                          |                                                                                     |  |                     |             |
| 2700                                   |                          |                                                                                     |  |                     |             |
| 2800                                   |                          |                                                                                     |  |                     |             |
| 2900                                   |                          |                                                                                     |  |                     |             |
| 3000                                   |                          |                                                                                     |  |                     |             |
| Termination of Log. End of Borehole 2. |                          |                                                                                     |  |                     |             |

**Borehole 3:****Location:** Refer to site plan. Truck mounted continuous flight auger.

| Depth                                                                                                                                                | Group Symbol             | Description                                                                          |  | Founding Material   | D<br>C<br>P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| 0<br>100<br>200<br>300<br>400<br>500<br>600<br>700                                                                                                   | CH<br>FILL               | Sandy Silty Clay with Gravel (Dark Brown, Light Brown) Moist, High Plasticity, Stiff |  | Unsuitable (FILL)   | 4<br>3<br>4<br>4<br>5<br>4<br>4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| 800<br>900<br>1000<br>1100                                                                                                                           | CH<br>STIFF NATURAL      | Sandy Silty Clay (Orange, Light Brown) Moist, High Plasticity, Stiff                 |  | Suitable<br>>100kPa | 4<br>5<br>5<br>5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 1200<br>1300<br>1400<br>1500<br>1600<br>1700<br>1800<br>1900<br>2000<br>2100<br>2200<br>2300<br>2400<br>2500<br>2600<br>2700<br>2800<br>2900<br>3000 | CH<br>VERY STIFF NATURAL | Sandy Silty Clay (Orange, Light Brown, Grey) Moist, High Plasticity, Very Stiff      |  | Suitable<br>>100kPa | 6<br>6<br>6<br>5<br>5<br>5<br>5<br>5<br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br>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## SITE PLAN

