

## Geotechnical Reports Information Sheet

### 1. General

Geotechnical Reports certify that the land is physically capable of development or provide advice of the required remedial works. A geotechnical report is required for the following reasons:

- (i) Subdivision or development of a lot previously undeveloped.
- (ii) Subdivision or development of a lot previously developed but where geotechnical information was not obtained at that time.
- (iii) Subdivision or development of a lot provided with sub-soil drainage and/or a lot connection (into the Town's systems).
- (iv) Survey strata of a lot previously undeveloped.
- (v) Survey Strata of a large lot previously developed but where geotechnical information was not obtained at that time.
- (vi) Survey Strata of a lot provided with sub-soil drainage and/or a lot connection (into the Town's systems).
- (vii) All lots where there is concern regarding the fill level, fill material, water table level and soil condition.
- (viii) BCA 3.1.1 Earthworks acceptable construction practice, 3.1.1.0 Performance requirement, P2.1.1 and Part 3.2 classified Class A or Class S.

### 2. Specific requirements of a Geotechnical Report within the Town of Bassendean:

A Geotechnical Report is required to:

- (i) Identify the substrata and its classification.
- (ii) Recommend remedial measures to have the site reclassified as Class "A" or Class "S" in accordance with AS2870.1-1989.
- (iii) Determine the water table level for the site.
- (iv) Recommend measures for the disposal of stormwater, either onsite or via a comprehensive subsoil drainage network.

- (v) Supervise the remedial work and certify that the works have been undertaken in accordance with the recommendations of the Geotechnical Report.
- (vi) Confirm that the foundation material is capable of an allowable bearing pressure of 100kpa.
- (vii) In the case of commercial / Industrial development the bearing pressure of 150kpa shall be achieved.

### 3. Site Classifications used in Geotechnical Reports

Class	Type of Soil	YS Value	Description
A	Rock	0mm - 10mm	Rock sites have no ground movement.
A	Sand	0mm - 10mm	Sand has little or no movement.
S	Clay – slightly reactive	10mm - 20mm	Slight ground movement due to moisture changes.
M	Clay – moderately reactive	20mm - 40mm	Moderate ground movement due to moisture changes.
H1	Clay – moderately to high reactive	40mm - 60mm	Moderate ground movement due to moisture changes.
H2	Clay – highly reactive	60mm - 75mm	High ground movement due to moisture changes.
E	Clay – extremely reactive	75mm +	Extreme ground movement due to moisture changes.
P	Problem	Varies	Sites which include soft soils, loose sands, landslip, collapsing soils, erosion, abnormal moisture conditions or sites which cannot be classified otherwise.