CITY OF CANNING
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INFRASTRUCTURE AND ENVIRONMENT

General Advice on Geotechnical Reports

Amended 21 November 2016

Why a geotechnical report may be required:-

A geotechnical report is requested for the following reasons:

1. Subdivision of a lot previously undeveloped. (Greenfield)
2. Subdivision of a large lot previously developed but where geotechnical information was not obtained at that time.
3. Subdivision of a lot provided with sub-soil drainage and / or a lot connection.
4. Survey Strata of a lot previously undeveloped.
5. Survey Strata of a large lot previously developed but where geotechnical information was not obtained at that time.
6. Survey Strata of a lot provided with sub-soil drainage and / or a lot connection.
7. All lots where there is concern regarding the fill level, fill material, water table level and soil condition.
8. 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.

Specific requirements of a geotechnical report for areas within the City of Canning:-

A geotechnical report is required to:

1. Identify the substrata and its classification.
2. Recommend remedial measures to have the site reclassified as Class “A” or Class “S” in Accordance with AS 2870.1-1989.
3. Determine the water table level for the site.
4. Recommend measures for the disposal of stormwater, either onsite or via a comprehensive subsoil drainage network.
5. Supervise the remedial work and certify that the works have been undertaken in accordance with the recommendations of the Geotechnical Report.
6. Confirm that the foundation material is capable of an allowable bearing pressure of 100kpa.
7. In the case of commercial / industrial the bearing pressure of 150kpa shall be achieved.

Geotechnical report requirements:-

1. When a geotechnical report is received, the records section will scan the report and attach it to the relevant application(s).
2. Copy relevant data to the Geotechnical Reports Register.
3. Mark the location of the geotechnical report on plan with a red dot and draw a red line around the boundary of the lot.
4. Review requirements for development of the site such as lot fill level, fill material, stormwater disposal method and site classification.
5. Send e-mail to GIS co-ordinator containing advice on stormwater disposal requirements.

Current list of the City's accepted Geotechnical Consultants:-

Company	Phone	Contact
Coffey Geotechnics Pty Ltd	(08) 9347 0000	David Fulsham
Golder Associates Pty Ltd	(08) 9213 7600	Doug Stewart
Stats Pty Ltd	(08) 94553654	Aiden Seck
ATC Williams Pty Ltd	(08) 9355 8700	Colin Jenner perth@atcwilliams.com.au
Structerre Consulting Chartered Engineers	(08) 9205 4520	Melvyn Castle
Douglas Partners Pty Ltd	(08) 9204 3511	Fred Verheyde
Galt Geotechnics	(08) 6272 0200	Owen Woodland
Prompt Certification	(08) 7324 7130	Michael Young
RSA Consulting Engineers	(08) 9317 3331	Robin Salter
Local Geotechnics	0425 545 508 0413 815 899	Dr. Harun Meer admin@localgeotechnics.com.au
Optimum Engineering Consultants	0457 856 134 0424 239 770	Santiago Abueva, JR. Gerald Abueva Optimumengconsultants@gmail.com
CMW Geosciences Pty Ltd	0400 816 525 0448 328 083	Mr Alex Petty Mr Phil Chapman
Cardno Geotech Pty Ltd	(08) 9726 2187	Mr Adrian Kho
4DG Geotechnics Pty Ltd	(08) 6212 9000	Guyon Smith gms@4dg.com.au
AusWest Ground Engineering Pty Ltd	(08) 655 81710	Dr Ruhul Khan admin@awge.com.au

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.

Standard geotechnical report summary sheet:-

This sheet is to be filled in by the geotechnical consultant and included with their report:

Geotechnical Investigation Summary Sheet

Doc_ID_No	Complete all sections listed on this form and include this document with each copy of the final report provided to the applicant and / or Local Authority.

Geotechnical_Consultant	WAPC_No
Geotechnical_Ref_No	Date_of_Investigation
Subdivision	Stage_No
Lot_No	Street_Name
ST_No	Suburb

Recommended_Remedial_Works (ie. Compaction, Excavation and Controlled Refilling, Additional Fill, Subsoil)

Initial_Site_Classification		Remediated_Site_Classification	
Existing_Surface_Level_(AHD)		Recommended_Surface_Level_(AHD)	

Other – Give_Details
Maximum_Groundwater_Level_(AHD)
Recommended_Stormwater_Disposal_Method
Certification_By_Geotech_Consultant