Date: 17th May, 2011
Reference number: 11C 474 (71)

SITE CLASSIFICATION

Client: Dunlop & Pitson Earthmoving
24 Jewell Court
Bendigo, VIC 3550

Project: Lot 71 Evergreen Links, Eaglehawk

1 INTRODUCTION

Dunlop & Pitson Earthmoving commissioned Geotechnical Testing Services to conduct a geotechnical investigation for a proposed residential development located at Lot 71 Evergreen Links, Eaglehawk.

The investigation has been conducted for the purpose of assessing general subsurface conditions at the site and consequently assigning a Site Classification in accordance with AS2870 – 2011 "Residential Slabs and Footings".

2 INVESTIGATION

The investigation was carried out by a technician on the 9th May, 2011 using a vehicle mounted drill-rig and drilling 2 boreholes to depth of 1.0 to 1.5 metres within the designated area. The subsequent soil profiles are presented in page 4 and the location of the boreholes are presented on page 5.

At the time of this investigation, the type of residential development proposed was unknown to GTS.

3 SITE CONDITIONS

There is a slight fall towards the rear of the site and is currently vacant. The surface of the site was dry with no ground covering. There was no visual evidence of surface cracking. No groundwater seepage was encountered over the investigated depths.

Full details of soil conditions are presented in the borehole logs.

4 SITE CLASSIFICATION

After allowing due consideration to the site geology, soil conditions, drainage and known details of the proposed structure, and that the fill has been placed under controlled conditions (tested and certified by GTS – Reference 11C 486) the site is classified as **Class M** (AS2870-2011).

Foundations designed in accordance with this classification are to be subject to the overriding conditions of Section 5 below.

5 DISCUSSION

Particular attention should be paid to the design of footings as required by AS2870 – 2011.

In addition to the normal founding requirements arising from the above classification, particular conditions at the site dictate that the founding medium and minimum depth below existing surface levels for all footings should be as follows:

- Controlled Fill: Gravelly Silty CLAY, low plasticity, dry, brown, stiff
  At depths below 0.1 metres

An allowable bearing pressure of 100kPa is available for edge beams, strips and stump footings founded as above.

6 IMPORTANT NOTES ABOUT THIS REPORT

- The site classification presented in Section 4 assumes that the current natural drainage and infiltration conditions at the site will not be markedly affected by the proposed site development work. Care should therefore be taken to ensure that surface water is not permitted to collect adjacent to the structure and that significant changes to seasonal soil moisture equilibria do not develop as a result of service trench construction or tree root action.

- Attention is drawn to Appendix B of AS 2870 and CSIRO document, BTF 18 – "Foundation Maintenance and Footing Performance: A Homeowner's Guide" as a guide to maintenance requirement for the proposed structure.

- This is not a comprehensive investigation nor is it economic or practical to determine every subsurface feature on the site. Although this investigation indicates that soil conditions are relatively uniform across the site, it is recommended that the base of all footing excavations be inspected to ensure that the founding medium meets that requirements referenced herein with respect to type and strength of founding materials. If further variations in descriptions in soil types, colour or depths are discovered during

construction, this office should be notified immediately so that potential influence on the footings may be assessed.

- The soil colours provided in the borelogs attached may vary with soil moisture content and individual interpretation, therefore colour alone should not be used to identify these soils.
- Strength characteristics of soils often exhibit a large variation between wet and dry conditions. Soil characteristics of a soil profile are given on the soil conditions at the time of the investigation.
- In the event of significant earthworks being undertaken on the site after this investigation, this report may require an amendment if appropriate.

Should you have any further queries concerning these results, please do not hesitate in contacting this office on 5441 4881

Yours faithfully

Shane Hampton BE (Hons)
Senior Geotechnical Engineer

Enclosed
Borelogs (Page 4)
Brief Site Map (Page 5)

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TESTING SERVICES PTY LTD

Test Report

Borehole Logs

Client:	Dunlop and Pitson	Borehole Log No.:	1 – 2
		Report Number:	11C 474
		Date Drilled:	09/05/11
Project:	Lot 71 Evergreen Links Eaglehawk	Logged By:	MB
		Drilling Method	AS
		Sheet 4 of 5	

Profile (mm):	* Structure: (see key)	Material Description:	Moisture Description:	Cohesion Density:	Plasticity:	Testing / Sampling:
0 to 300	Controlled Fill	BL-1 Gravelly Silty Clay Brown	D	ST	L	No
to 1300	Soil Profile	Silty Clay Brown	M	ST	M	No
to 1500	Rock	Extremely Weathered Siltstone Pale Brown	D	H	-	No
0 to 300	Controlled Fill	BL-2 Gravelly Silty Clay Brown	D	ST	L	No
to 600	Soil Profile	Silty Clay Brown	M	ST	M	No
to 1000	Rock	Extremely Weathered Siltstone Pale Brown	D	H	-	No

Key:

Drilling Method:	Moisture Condition	Cohesion:	Density:	Testing/Sampling:
AS - Auger Screwing	D - Dry	VS - Very Soft	VL - Very Loose	PP – Pocket Penetrometer
HA - Hand Auger	M - Moist	S - Soft	L - Loose	V – Hand Vane Sheer
	W - Wet	F - Firm	MD - Medium Dense	DCP – Dynamic Cone Penetrometer
		ST - Stiff	D - Dense	SPT – Standard Penetration Test
		VST - Very Stiff	VD - Very Dense	US – Undisturbed Sampling
		H - Hard		DS – Disturbed Sampling
		VH – Very hard		* See notes on borelog location page (last).

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Borehole Locations

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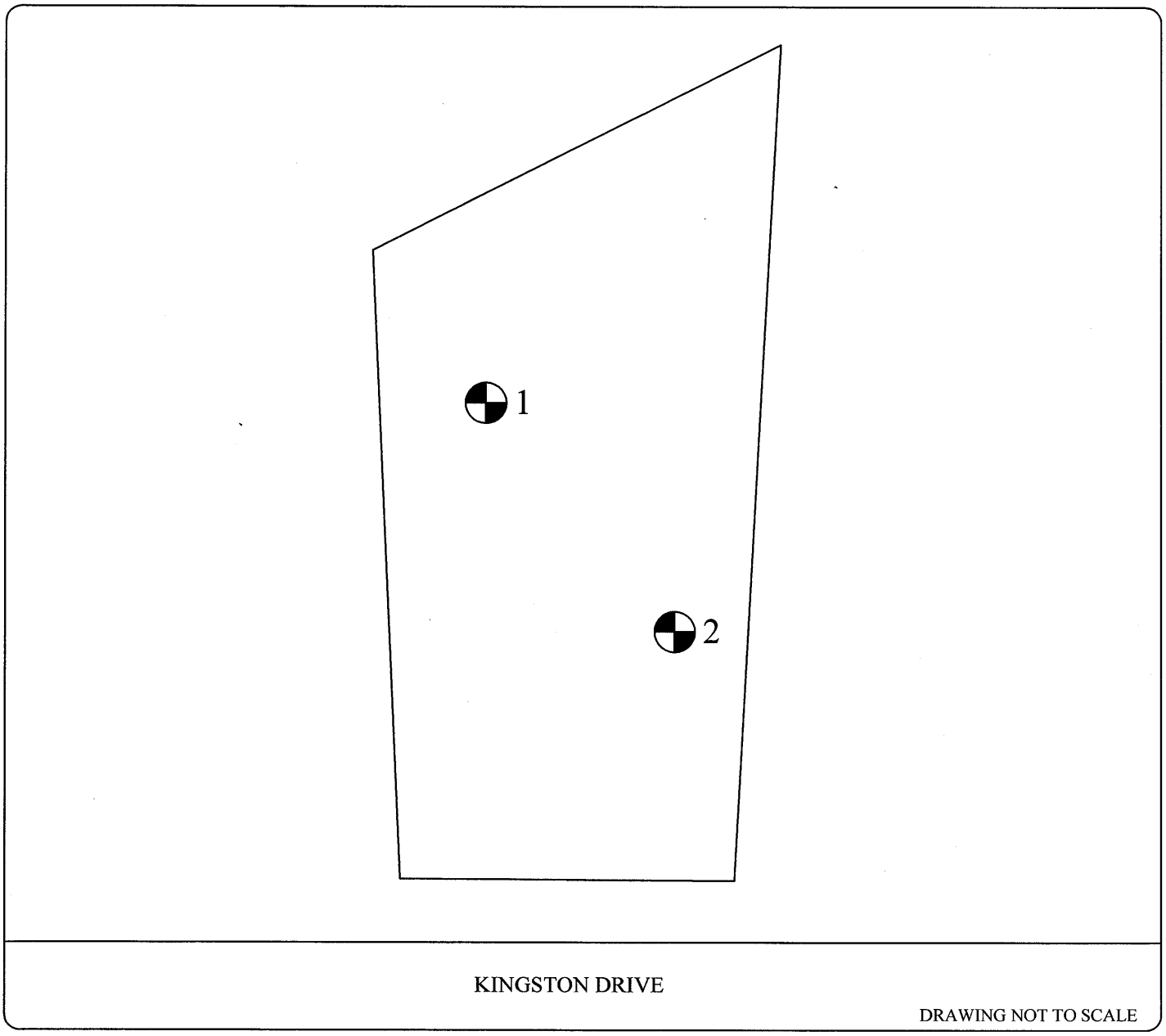
Client :	DUNLOP AND PITSON
Project:	LOT 71 EVERGREEN LINKS EAGLEHAWK

Borehole No. :	1 & 2
Report No. :	11C 474
Date Drilled :	09/05/11
Operator:	MB
Drilling Method:	A.S
Page No.:	5 of 5



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