



Land Capability Services

6th March, 2024

AS 2870 Site Classification – Proposed Lot 63 in Lot 1 DP1272209, Harcourt Close, Sutton, NSW

A site inspection was carried out at the proposed house, shed and cottage sites across seven inspection pits to auger refusal or significant resistance in granodiorite of varying degrees of weathering at depths ranging from 60cm to maximum auger depth of 230cm. The site is a gently to moderately inclined slope of 4-7 degrees. Disturbed soils from recent tree/fence-line removal were observed across the shed and cottage sites

Topsoil	0-8cm:	sandy loam , weak structure, dry weak consistence, slightly plastic
	8-30cm:	sandy clay loam , weak structure, slightly moist weak consistence, moderately plastic, low wet strength
Subsoil	30-60cm:	sandy clay , weak structure, slightly moist firm consistence, very plastic
	60-150cm:	medium clay , moderate structure, moist weak consistence, very plastic
Substrate	150cm+:	weathered granodiorite

The site classification at the proposed house, cottage and shed sites according to AS 2870 is;

P (Expected site cut >50cm and/or fill depth greater than 40cm, disturbed soils from large tree removal cottage and shed sites)

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IMPORTANT NOTES:

Soil classification **Class M** in in-situ soil only. Characteristic surface movement $y_s = 32\text{mm}$. Note cut and filled sites may be expected to increase characteristic surface movement y_s , considerably.

Fall across house site estimated 3m, shed site 2m, cottage site 1.2m.

Weathered volcanic rock observed from 60cm to 150cm, varying states of weathering. Likely partial rock foundations if significant site cut.

Footing design is to be based on engineering principles for Class P conditions.

An agricultural drain should be constructed upslope of the building area to divert surface and seasonal groundwater flows.

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