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Our Ref: PSM2541-180L

24 February 2017

Urban Planning Consultant
Cityscapeplanning+projects
PO Box 127
GLENBROOK NSW 2773

ATTENTION: MR VINCE HARDY
By email: vhardy@cityscape.net.au

Dear Vince

**RE: LOT 1 IN DP1181666 - 259 WEST WILCHARDS ROAD, CASTLEREAGH –
SITE CLASSIFICATION**

This letter provides the site classification for the house pad at 259 West WilcharDS Road, Castlereagh. The site classification has been undertaken in accordance with AS2870-2011. Figure 1 presents the site survey including the extents of the house pad.

In assessing the site classification we have relied on:

1. Conditions observed by a PSM geotechnical engineer during his site visit during placement of the house pad fill in May 2016.
2. Review of the following earthworks control and survey documents:
 - a. STS Earthwork Control Testing – West Wilchard Road Castlereagh, NSW – Certification of Earthworks between 22/04/2016 and 27/05/2016 – dated 9/06/2016 – Ref No. L3884E
 - b. STS Earthwork Control Testing – West Wilchard Road Castlereagh, NSW – Certification of Earthworks for 13/02/2017– dated 15/02/2017 – Ref No. L3884E

These documents from STS verify that the earthworks comply with landform specifications for urban land for the Penrith Lakes Scheme.

On the above basis, we assess the house pad to comprise of:

1. 0.6 m thick layer of sandstone fill placed at a compaction ratio between 98% and 103.5% SMDD and between 2% dry and 2% wet of OMC, overlying
2. Up to 5 m of shale/shaley clay fill placed at a compaction ratio between 98% and 102% SMDD and between 2% dry and 2% wet of OMC, overlying
3. Natural ground.

Having given consideration to the above, we recommend that a Class M classification be adopted for the house pad for a residential dwelling in accordance with AS2870-2011. This is based on the following considerations:

1. Strictly speaking the site is a Class P site (due to the presence of fill across the site).
2. The reactivity of the shale and sandstone fill would place it in Class S/Class M classification.
3. The presence of up to 5 m of fill and movements associated with that means that appropriate caution is to classify as a Class M site.

Please do not hesitate to contact the undersigned should you have any queries.

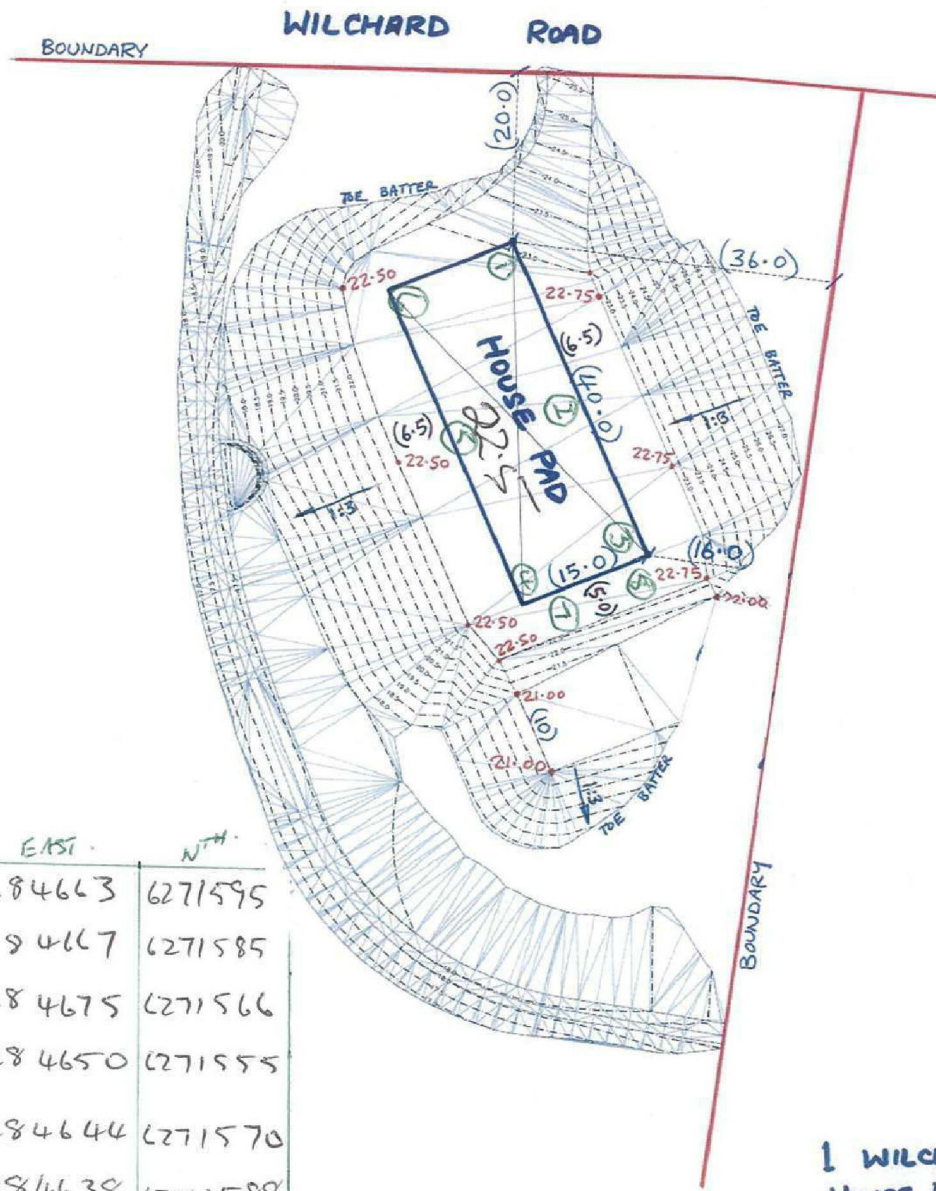
For and on behalf of
PELLS SULLIVAN MEYNINK



DAVID PICCOLO
Principal

Encl. Figure 1 Work as executed site survey

N.



	R.L.	EAST.	NTH.
①	22.79	28 4663	6271595
②	22.72	28 4667	6271585
③	22.65	28 4675	6271566
④	22.47	28 4650	6271555
⑤	22.46	28 4644	6271570
⑥	22.51	28 4638	6271588
⑦	21.69	28 4655	6271548
⑧	21.69	28 4666	6271552

1 WILCHARD ROAD
HOUSE PAD AND
BUILDING PLATFORM
110088/SK 50

1:500

13/4/16

**PENRITH LAKES
RESIDENTIAL DEVELOPMENT
WEST WILCHARD ROAD CASTLEREAGH
WORK AS EXECUTED SITE SURVEY**



Pells Sullivan Meynink Pty Ltd

PSM2541-180L

Figure 1

Q:\PSM2541\Eng\EARTHWORKS\Residential Development\Figure 1 - Site Survey.xls\standard figure border - NEW