

SITE CLASSIFICATION CERTIFICATE

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|----------------------------|----------------------------------------------------|
| Project | Subdivision of Stage 1B: Millars Landing, Baldivis |
| Address | Lot 19 |
| Site Classification | Class A |
| Date | 17 December 2018 |
| Doc No. | 88804.11 Lot 19 |

This certificate has been prepared by a chartered geotechnical engineer registered on Engineers Australia's National Engineering Register (NER) under the 'Area of Practice: Subdivisional Geotechnics'.

Douglas Partners provided geotechnical supervision for 'Stage 1B of Millars Landing' residential subdivision in Baldivis. This included a predevelopment geotechnical investigation and regular site inspections during the bulk earthworks.

Following the completion of bulk earthworks and civil works Douglas Partners carried out subsequent inspection and testing across Stage 1B between 6 and 11 December 2018. The testing included the drilling of one borehole to assess the ground conditions in the centre of Lot 19 and Perth sand penetrometer (PSP) testing to assess the soil density at two locations across the lot.

Ground conditions encountered within Lot 19 consist of sand fill overlying sand (inferred Bassendean Sand) to a depth of at least 1.8 m. Results of PSP testing presented in the table below, indicate suitable compaction for residential development.

| Test Location | Depth | | |
|----------------------|------------------|------------------|-------------------|
| | 150 mm to 450 mm | 450 mm to 750 mm | 750 mm to 1050 mm |
| South retaining wall | 12 | >36 | - |
| Centre | 8 | 17 | 16 |

Note: > means refusal in very dense sand, with more than 20 blows for 150 mm penetration.

Results of the investigation indicate that Lot 19 can be classified as 'Class A' as described in the Australian Standard AS 2870-2011, 'Residential slabs and footings'.

Please contact the undersigned if you have any questions on this matter.

Yours faithfully

Douglas Partners Pty Ltd



Matt Williams MIEAust CPEng, NER
Geotechnical Engineer

Reviewed by



Dan Reeveley
Senior Associate