

Ref: 16042
30 November 2020
FKG GROUP
36 Aplin Street
Cairns, QLD 4870

**RE: DCP TESTS AT ATHERTON TABLELAND HOSPITAL –
BUILDING PAD – LOCATIONS PF32 & PF34 – Dated 24/11/2020**

We have received DCP Results, from FKG
Location Numbers PF32 – #1 and PF34 – #2-4 - Dated 24/11/2020 and
Location PF32 – Secondary Tests – DCP1, DCP2, DCP3 – Dated 26/11/2020.

Based on the reports received, it appears as though the results would yield the following average values:

PF32 – Location # 1

Result 1 - WS = 215 kPa; LS = 322 kPa

Result 2 - WS = 190 kPa; LS = 285 kPa (*Does not reach 220 KPa*)

Result 3 - WS = 248 kPa; LS = 372 kPa

PF32 – Location # 1 – SECONDARY TESTS

DCP1 – WS = 198 kPa; LS = 297 kPa

(Reaches more than 8 blows per 100mm – 220 KPa at -800mm)

Average Result 2 from -800 - WS = 240 kPa; LS = 360 kPa

DCP2 – WS = 178 kPa; LS = 267 kPa

(Reaches more than 8 blows per 100mm – 220 KPa at -900mm)

Average Result 2 from -900 - WS = 265 kPa; LS = 397 kPa

DCP3 – WS = 180 kPa; LS = 270 kPa

(Reaches more than 8 blows per 100mm – 220 KPa at -800mm)

Average Result 2 from -800 - WS = 238 kPa; LS = 357 kPa

Overall, location 1 reaches adequate allowable bearing capacity under working stress of 220 KPa from -900mm. Therefore, the nominated footing for location 1 (PF32) on Drawing 010041-CD-ST-B2-300-09, noted to be 920 deep, will be satisfactory.

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PF34 – Location # 2

Result 1 - WS = 270 kPa; LS = 405 kPa

Result 2 - WS = 285 kPa; LS = 427 kPa

PF34 – Location # 3

Result 1 - WS = 260 kPa; LS = 390 kPa

Result 2 - WS = 241 kPa; LS = 361 kPa

PF34 – Location # 4

Result 1 - WS = 208 kPa; LS = 312 kPa

Result 2 - WS = 188 kPa; LS = 282 kPa

(Reaches more than 8 blows per 100mm – 220 KPa at -600mm)

Average Result 2 from -600 - WS = 266 kPa; LS = 399 kPa

Location 4 (PF34) reaches adequate allowable bearing capacity under working stress of 220 KPa from -600mm. The nominated footing on Drawing 010041-CD-ST-B2-300-09, for location 4 (PF34) noted to be 1000mm deep, will be satisfactory.

If you require anything further please contact us.



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