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# GEOTECHNICAL BOREHOLE LOG 21-BH16

In Accordance with AS1726:2017

Beaudesert-Beenleigh Road Upgrade  
 Beaudesert-Beenleigh road  
 Beenleigh  
 18840.000.001

Client : AHS  
 Date : 10/08/2021  
 Hole Depth : 12 m  
 Core Diameter : 100 mm  
 Drilling Method : Solid Flight Auger

Drilling Contractor : Redlands Drilling  
 Logged/Reviewed By : RC/SF  
 Easting/Northing (MGA94) : 519153.354 / 6933373.011  
 Page : 1 / 2  
 Datum/Surface RL : AHD/25.674 m

Depth (m BGL)	Drilling Method	Water Level	Elevation (RL)	TCR (%) / RQD (%)	Stratigraphic Unit	Group Symbol (USCS)	MATERIAL DESCRIPTION	Log Symbol	Weathering	Estimated Intact Strength	Average Defect Spacing (ISO14689:2017)	Additional Comments	Test Results		
														Very Low	Low
0	Auger				FILL	CL	<b>TOPSOIL</b> Sandy Clay								
0.5	SPT				Residual	GC	<b>Sandy Clayey GRAVEL (FILL)</b> Brown, moist, stiff. Fine to medium, angular gravel. Fine to coarse Sand.						SPT 'A' 8.5.4 N=9		
1.5	Auger					CI	<b>Gravelly CLAY trace Sand (Residual)</b> Brown-red, moist, firm and becoming very stiff with depth. Medium plasticity. Fine to medium angular gravel. Fine sand.						SPT 'B' 3.2.2 N=4		
2.5	SPT				Residual	CI	2.5: Becoming hard						SPT 'C' 30/145mm		
3.5	Auger						<b>BOULDER MW</b> Metegreywacke, fine to medium grained, medium strength.						No SPT. NMLC 3.0m to 3.7m		
4.5	SPT						<b>Sandy CLAY trace gravel (Residual)</b> Brown, moist, very stiff. Low to medium plasticity. Fine to medium grained sand. Fine angular gravel.								
5.5	Auger				Residual	CI	<b>Sandy CLAY with Gravel (Residual)</b> Dark grey, moist, hard. Medium plasticity fines. Fine to medium sand. Fine angular gravel.						SPT 'E' 15.30/150mm. hb %F<75µm = 51 MC = 20.6 LL = 39% PI = 23% LS = 10.5%		
6.5	SPT													SPT 'F' 21.30/35mm. hb	
7.5	Auger				Dcf		<b>ARGILLITE (Dcf)</b> MW: Dark grey and red-grey, fine grained, foliated, medium to high strength. - FP: 30°-60° (4-6/m) Sm, OP-TI, Fe Std or Clay Vr - Js: 0°-20° (6-10/m) Sm, OP-TI, Fe Std or Clay Vr	HW				6.85m-6.9m: Cs	7.89 $I_{t50}(D)$ = 1.9Mpa		
8.0	NMLC							XW							7.0m-7.1m: Cs
8.5								MW							7.1-7.2m: Clay seam
9.0								SW							7.2-7.28m: Cs
9.5								HW							7.7-7.75m: Cs
10.0								MW							7.8-7.83m: Cs
10.5													9.06 $I_{t50}(D)$ = 1.6Mpa		
11.0													9.26 $I_{t50}(D)$ = 2Mpa		
11.5													9.46-9.50m: Cs		
12.0													9.54-9.57m: Cs		

**Notes:**

Dcf: Naranleigh Fernvale Beds

GEOTECHNICAL BOREHOLE LOG - AU 18840.000.001 - BEAUDESERT - BEENLEIGH RD UPGRADE PROJECT.GPJ NZ DATA TEMPLATE 2.GDT 9/9/21



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11	NMLC		15	100 / 5	Dcf		<b>ARGILLITE (Dcf)</b> <b>MW:</b> Dark grey and red-grey, fine grained, foliated, medium to high strength. - FP: 30°-60° (4-6/m) Sm, OP-TI, Fe Std or Clay Vr - Js: 0°-20° (6-10/m) Sm, OP-TI, Fe Std or Clay Vr	MW, HW, MW, SW	Very Low, Low, Medium, High, Very High, Extremely High, Extremely Close, Very Close, Close, Medium, Wide, Very Wide			10.60-10.75m: Cs	11.52 $I_{p50}(D)$ = 1.7Mpa
12							End of Hole Depth : 12 m						

**Notes:**

Dcf: Naranleigh Fernvale Beds

GEOTECHNICAL BOREHOLE LOG - AU 18840.000.001 - BEAUDESERT - BEENLEIGH RD UPGRADE PROJECT.GPJ NZ DATA TEMPLATE 2.GDT 9/9/21

<b>Borehole No.: 21-BH16</b>		<b>Depth Range: 6.70 – 12.00m</b>		<b>Box: 1/1</b>	
0m		0.5m		1.0m	
	<b>Supplementary Geotechnical Investigation Borehole Photos</b>	<b>Client:</b> RoadTek			
		<b>Project:</b> Beaudesert-Beenleigh Road upgrade		<b>Drawn:</b> RC	<b>Page No.</b> 1/1
		<b>Project No.</b> 18840.000.001		<b>Checked:</b> SF	<b>Size:</b> A4
		<b>Date Drilled:</b> 11/08/2021		<b>Revision:</b> 01	<b>Scale:</b> N/A