

COPYRIGHT NOTICE

This geotechnical log and its associated data (the Document) is licensed by McConnell Dowell under the [Creative Commons Attribution 4.0 Licence](#) (CC BY 4.0). When reusing the Document, in whole or in part, please attribute as follows: "(c) McConnell Dowell 2026, licensed under the CC BY 4.0 Licence, prepared by Golder Associates". This licence does not apply to logos or trademarks.

LIMITATION OF LIABILITY

The CC BY 4.0 Licence contains a comprehensive Disclaimer of Warranties and Limitation of Liability. In addition, please note that this Document was prepared for McConnell Dowell use only. Reuse of the Document by anyone for any other purpose could result in error and/or loss. You should obtain professional advice before making decisions based on the contents of the Document.

When reproducing any part of this Document, you must also reproduce this limitation of liability notice in addition to the italicised attribution statement above.

Retrieved from the Queensland Geotechnical Database <http://qgd.org.au/>



REPORT OF BOREHOLE: BH210

SHEET: 1 OF 4

DRILL RIG: FD500

CONTRACTOR: Foundril Pty Ltd

LOGGED: WJH DATE: 14/9/11

CHECKED: NK DATE: 26/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 82003.7 m E 61455.9 m N GCCC

PROJECT: Gold Coast Rapid Transit SURFACE RL: 11.19 m DATUM: AHD

LOCATION: Zone 2 INCLINATION: -90°

JOB NO: 117632047 HOLE DEPTH: 22.46 m

Drilling				Sampling		Field Material Description						
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USC SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
ADV		Groundwater not observed	0	11.19	SPT 1.00-1.45 m 3, 2, 6 N=8		CH	FILL: Silty SAND fine grained, sub-rounded, dark brown	M	L	F - St	
			0.25	10.94				FILL: Gravelly SAND fine to medium grained, sub-rounded, dark brown, fine to medium, sub-angular gravel				
			0.55	10.64				Silty CLAY high plasticity, pale grey and red brown				
			1						M (>PL)			
			2	2.20	SPT 2.50-2.92 m 11, 15, 30/120 mm N>45		ML-MH	Clayey SILT low to high plasticity, pale grey with brown			VSt	
			8.99									
			3									
			4									
			4		SPT 4.00-4.06 m 30/60 mm						H	
			5	4.90				pale grey and brown				
			6.29									
			5		SPT 5.50-5.55 m 30/50 mm							
			6									
			7									
			8									
			9									
			10									
WB			6		SPT 4.00-4.06 m 30/60 mm						H	
			7									
			8									
			9									
			10		SPT 5.50-5.55 m 30/50 mm							
			11									
			12									
			13									
			14									
			15									

This report of borehole must be read in conjunction with accompanying notes and abbreviations. It has been prepared for geotechnical purposes only, without attempt to assess possible contamination. Any references to potential contamination are for information only and do not necessarily indicate the presence or absence of soil or groundwater contamination.

GAP gINT FN. F01a
RL3



REPORT OF BOREHOLE: BH210

SHEET: 3 OF 4

DRILL RIG: FD500

CONTRACTOR: Foundril Pty Ltd

LOGGED: WJH DATE: 14/9/11

CHECKED: NK DATE: 26/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 82003.7 m E 61455.9 m N GCCC

PROJECT: Gold Coast Rapid Transit SURFACE RL: 11.19 m DATUM: AHD

LOCATION: Zone 2 INCLINATION: -90°

JOB NO: 117632047 HOLE DEPTH: 22.46 m

Drilling					Field Material Description				Defect Information			
METHOD	WATER	TCR	RQD (SCR)	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH Is(50) MPa	DEFECT DESCRIPTION & Additional Observations		AVERAGE DEFECT SPACING (mm)
NMLC	Groundwater not observed		100	75 (100)	10	1.19	grey ARGILLACEOUS SILTSTONE fine grained, grey with white quartz	MW		9.93 m: HB		
										10.16 m: J, 10°, Un, Ro, Sn-Vr		
										10.26 m: J, 30°, Pl, Ro, Ct		
										10.60 m: J, 70°, Pl, Ro, Vr		
										10.70 m: J, 35°, Un, Ro, Ct		
										10.93 m: J, 50°		
										11.10 m: J, 40°, Pl, Sn-Vr		
										11.33 m: J, 10°, Un, Ro, Sn-Vr		
										11.64 m: J, 70°, Pl, Ro, Vr		
			93	52 (60)	11	11.72 -0.53	CORE LOSS	MW				
					12	12.06 -0.87	ARGILLACEOUS SILTSTONE grey			12.06-12.26 m: FZ		
										12.50 m: J, 50°, Pl, Ro, Sn		
										12.71 m: J, 45°, Pl, Ro, Ct		
										12.79 m: DB		
										12.83 m: DB		
										12.94 m: DB		
										13.06 m: J, 50°, Pl, Ro, Sn-Vr		
			100	69 (93)	13					13.58 m: J, 50°, Pl, Ro, Sn-Vr		
										13.74 m: J, 45°, Un, Ro, Vr		
										13.81 m: J, 45°, Un, Sn-Vr		
										13.92 m: J, 70°, Pl, Ro, Sn-Vr		
										14.17 m: DB		
										14.40-14.50 m: DB		
			100	0 (0)	14	14.30 -3.11	some quartz seams	HW		14.60-15.00 m: CZ		
						14.60 -3.41	no quartz					
										15.12 m: J, 45°, Pl, Ro, Sn-Vr		
										15.25 m: J, 45°, Pl, Ro, Sn		
			100	100 (100)	15			MW		15.70 m: J, Un, Ro, Sn		
										15.85 m: J, 35°, Pl, Ro, Sn		
										15.92 m: HB		
										15.97 m: HB		
										16.17 m: J, 80°, Un, Ro, Cn		
										16.30-17.42 m: J, 90°, Un, Ro, Ct		
			100	62 (75)	16			SW				
										17.42-17.55 m: FZ		
			100	0 (0)	17					17.77 m: J, 60°, Un, Ro, Cn		
										17.90-18.40 m: FZ		
			100	23 (42)	18							
										19.25 m: J, 40°, Pl, Ro, Cn		
										19.36 m: J, 60°, Pl, Ro, Cn		
										19.50 m: J, 70°, Ro, Cn		
			100	37 (52)	19					19.69 m: J, 30°, Ro, Cn		
										19.72 m: J, 10°, Ro, Cn		
			100	55 (55)								
			100	81 (100)	20							

This report of borehole must be read in conjunction with accompanying notes and abbreviations. It has been prepared for geotechnical purposes only, without attempt to assess possible contamination. Any references to potential contamination are for information only and do not necessarily indicate the presence or absence of soil or groundwater contamination.

GAP gINT FN. F02a
RL3



REPORT OF BOREHOLE: BH210

SHEET: 4 OF 4

DRILL RIG: FD500

CONTRACTOR: Foundril Pty Ltd

LOGGED: WJH DATE: 14/9/11

CHECKED: NK DATE: 26/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 82003.7 m E 61455.9 m N GCCC

PROJECT: Gold Coast Rapid Transit SURFACE RL: 11.19 m DATUM: AHD

LOCATION: Zone 2 INCLINATION: -90°

JOB NO: 117632047 HOLE DEPTH: 22.46 m

Drilling					Field Material Description					Defect Information					
METHOD	WATER	TCR	RQD (SCR)	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH Is(50) MPa	DEFECT DESCRIPTION & Additional Observations			AVERAGE DEFECT SPACING (mm)		
NMLC	Groundwater not observed	100	81 (100)	20			ARGILLACEOUS SILTSTONE grey	SW		19.89 m: J, Un, Ro, Cn					
				20.21 m: DB											
		100	100 (100)	21						20.57 m: DB 20.71 m: J, 15°, Pl, Ro, Cn 20.74 m: J, 15°, Pl, Ro, Cn 20.81 m: DB 21.00 m: HB 21.13 m: J, 50°, Pl, Ro, Cn					
				21.84 m: DB											
				22						22.20 m: J, 50°, Pl, Ro, Cn					
				22.46	-11.27		END OF BOREHOLE @ 22.46 m TARGET DEPTH GROUNDWATER NOT OBSERVED Borehole moved 8.0 m west to avoid a basalt rock wall								
				23											
				24											
				25											
				26											
				27											
				28											
				29											
				30											

This report of borehole must be read in conjunction with accompanying notes and abbreviations. It has been prepared for geotechnical purposes only, without attempt to assess possible contamination. Any references to potential contamination are for information only and do not necessarily indicate the presence or absence of soil or groundwater contamination.

GAP gINT FN. F02a
RL3

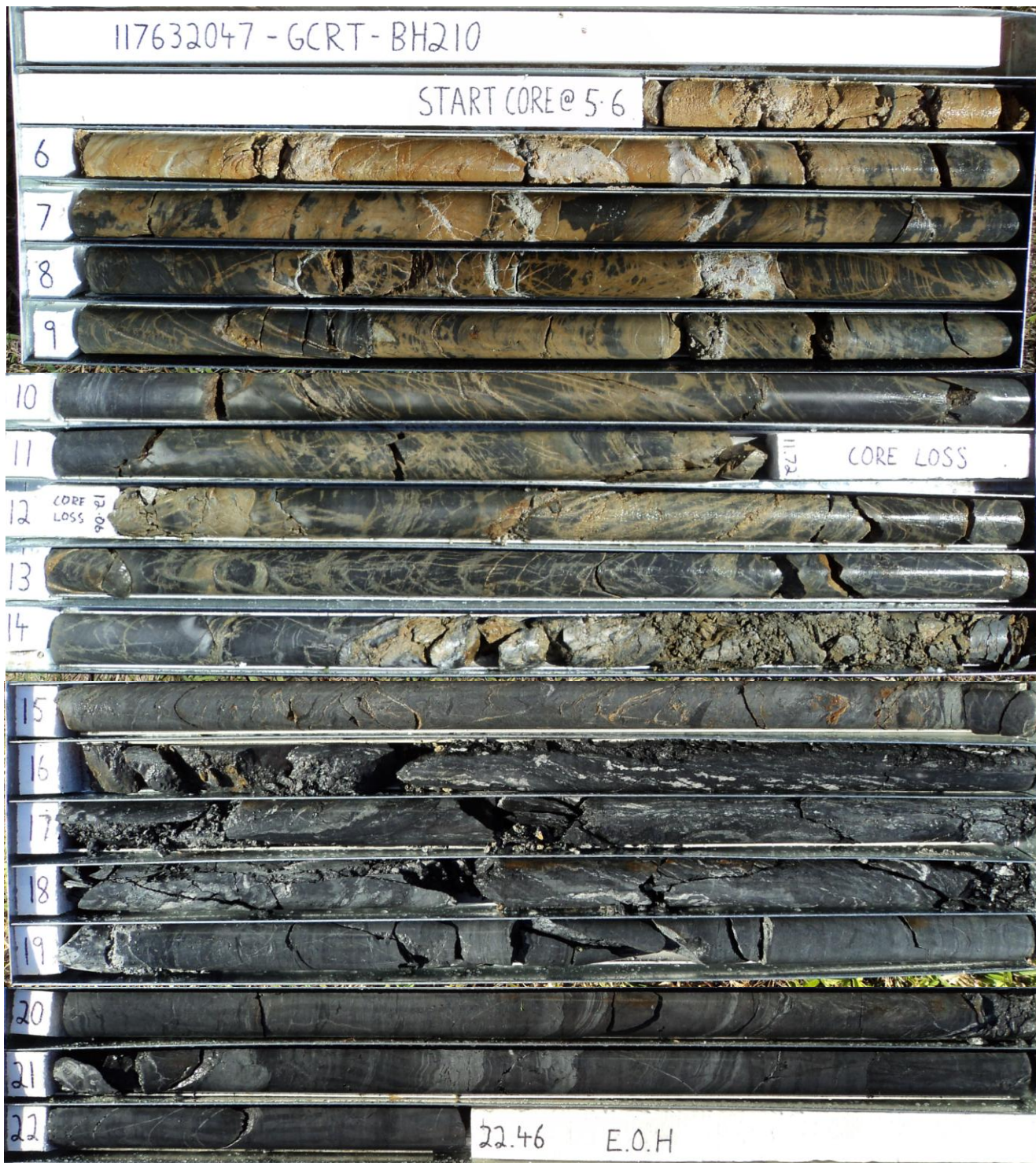


REPORT OF CORE PHOTOGRAPHS: BH210

CLIENT: McConnell Dowell Constructors
PROJECT: Gold Coast Rapid Transit
LOCATION: Zone 2
JOB NO: 117632047

COORDS: 82003.7 m E, 61455.9 m N
SURFACE RL: 11.19 m DATUM: AHD
INCLINATION: -90°
HOLE DEPTH: 22.46 m

DEPTH RANGE: 5.60 – 22.46 m
DRILL RIG: FD500
DRILLER: Foundril Pty Ltd
LOGGED: WJH DATE: 14/09/11
CHECKED: NK DATE: 26/09/11



5.60 – 22.46 m