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REPORT OF BOREHOLE: BH213

SHEET: 1 OF 4

DRILL RIG: FD500

CONTRACTOR: Foundril Pty Ltd

LOGGED: WJH DATE: 1/9/11

CHECKED: NK DATE: 26/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 82075.0 m E 61381.4 m N GCCC

PROJECT: Gold Coast Rapid Transit SURFACE RL: 19.37 m DATUM: AHD

LOCATION: Zone 2 INCLINATION: -90°

JOB NO: 117632047 HOLE DEPTH: 23.70 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	M	Groundwater not observed	0	19.37					FILL: Sandy CLAY high plasticity, brown	M (>PL)	S - F			
			1	1.20 18.17	SPT 1.00-1.34 m 1, 30/40 N>30			FILL dark grey, trace fine gravel, rubbish, high wood content, plastic			300 mm layer of wood			
2			SPT 2.50-2.95 m 4, 1, 1 N=2											
3														
4			SPT 4.00-4.45 m 4, 8, 6 N=14											
5			SPT 5.50-5.95 m 7, 3, 9 N=12			M - W								
6														
7			SPT 7.00-7.45 m 2, 3, 2 N=5											
8														
9			SPT 8.50-8.95 m 7, 8, 7 N=15											
10														

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: BH213

SHEET: 2 OF 4

DRILL RIG: FD500

CONTRACTOR: Foundril Pty Ltd

LOGGED: WJH DATE: 1/9/11

CHECKED: NK DATE: 26/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 82075.0 m E 61381.4 m N GCCC

PROJECT: Gold Coast Rapid Transit

SURFACE RL: 19.37 m DATUM: AHD

LOCATION: Zone 2

INCLINATION: -90°

JOB NO: 117632047

HOLE DEPTH: 23.70 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
RT	M-H	Groundwater not observed	10		SPT 10.00-10.28 m 5, 30/130 N>30				FILL dark grey, trace fine gravel, rubbish, high wood content, plastic				
			11										
			12		SPT 11.50-11.95 m 11, 8, 17 N=25								
			13		SPT 13.00-13.45 m 7, 6, 6 N=12								
			14										
			15		SPT 14.50-14.95 m 23, 12, 13 N=25								
			16										
			17										
			18		SPT 17.50-17.95 m 3, 3, 3 N=6								
			19	19.00 0.37	SPT 19.00-19.45 m 8, 11, 25 N=36			CH			Silty CLAY high plasticity, pale grey and brown		

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GAP gINT FN. F01a
RL3



REPORT OF BOREHOLE: BH213

SHEET: 3 OF 4

DRILL RIG: FD500

CONTRACTOR: Foundril Pty Ltd

LOGGED: WJH DATE: 1/9/11

CHECKED: NK DATE: 26/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 82075.0 m E 61381.4 m N GCCC

PROJECT: Gold Coast Rapid Transit SURFACE RL: 19.37 m DATUM: AHD

LOCATION: Zone 2 INCLINATION: -90°

JOB NO: 117632047 HOLE DEPTH: 23.70 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
WB	M		20				X X X X	CH	Silty CLAY high plasticity, pale grey and brown	M (>PL)	H	
					SPT 20.50-20.55 m 30/50 mm				For Continuation Refer to Sheet 4			
			21									
			22									
			23									
			24									
			25									
			26									
			27									
			28									
			29									
			30									

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GAP gINT FN. F01a
RL3



REPORT OF BOREHOLE: BH213

SHEET: 4 OF 4

DRILL RIG: FD500

CONTRACTOR: Foundril Pty Ltd

LOGGED: WJH DATE: 1/9/11

CHECKED: NK DATE: 26/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 82075.0 m E 61381.4 m N GCCC

PROJECT: Gold Coast Rapid Transit SURFACE RL: 19.37 m DATUM: AHD

LOCATION: Zone 2 INCLINATION: -90°

JOB NO: 117632047 HOLE DEPTH: 23.70 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 $I_{s(50)}$ MPa	DEFECT DESCRIPTION & Additional Observations			AVERAGE DEFECT SPACING (mm)	
				20										
				20.55			Continuation of Sheet 3							
				-1.18			ARGILLACEOUS SILTSTONE fine grained, brown and grey	HW		20.64 m: J, 30°, Pl, Ro, Vr				
				21						20.85 m: J, 30°, Pl, Ro, Sn-Vr				
				21.19						20.92 m: J, 40°, Pl, Ro, Sn-Vr				
				21.38			CORE LOSS			21.09 m: J, 60°, Pl, Ro, Sn-Vr				
				-2.01										
				22			SILTSTONE becoming dark grey with grey banding	HW - MW		21.75-23.28 m: J, 35°, Pl, Ro, Sn-Vr, sp = 100 mm				
				23										
				23.70										
				-4.33			END OF BOREHOLE @ 23.70 m TARGET DEPTH GROUNDWATER NOT OBSERVED	MW		23.10-23.17 m: DS				
				24						23.35 m: J, 40°, Un, Ro, Sn-Vr				
				25										
				26										
				27										
				28										
				29										
				30										

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GAP gINT FN. F02a
RL3



REPORT OF CORE PHOTOGRAPHS: BH213

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

COORDS: 82075.0 m E, 61381.4 m N
SURFACE RL: 19.37m DATUM: AHD
INCLINATION: -90°
HOLE DEPTH: 23.70 m

DEPTH RANGE: 20.55 – 23.70 m
DRILL RIG: FD500
DRILLER: Foundril Pty Ltd
LOGGED: WJH DATE: 1/09/11
CHECKED: NK DATE: 26/09/11



20.55 – 23.70 m