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REPORT OF BOREHOLE: BH211

SHEET: 1 OF 3

DRILL RIG: FD500

CONTRACTOR: Foundril Pty Ltd

LOGGED: WJH DATE: 22/9/11

CHECKED: NK DATE: 1/10/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 82029.8 m E 61422.6 m N GCCC

PROJECT: Gold Coast Rapid Transit

SURFACE RL: 14.12 m DATUM: AHD

LOCATION: Zone 2

INCLINATION: -90°

JOB NO: 117632047

HOLE DEPTH: 19.92 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		0	14.12					FILL: Sandy CLAY high plasticity, brown, trace fine grained sub-angular gravel and plastic	M (>PL)	S - F	
			1		SPT 1.00-1.45 m 2, 7, 2 N=9							
			1.80									
			12.32									
	M-H		2		SPT 2.50-2.95 m 24, 7, 3 N=10				FILL: Clayey GRAVEL fine to medium grained, sub-angular, brown, with some pieces of wood and plastic			
			3							M - W	L	
			4		SPT 4.00-4.45 m 3, 4, 8 N=12							
			4.20									
			9.92					CH	Silty CLAY high plasticity, pale grey			
			5									
			5.20						pale grey and red brown		St	
			8.92									
			6		SPT 5.50-5.95 m 5, 6, 6 N=12							
			7		SPT 7.00-7.45 m 3, 9, 13 N=22				pale grey	M (>PL)		
			6.90									
			7.22									
			7.40						trace 5-20 mm bands of ironstone			
			6.72									
			8									
			8.30									
			5.82		SPT 8.50-8.95 m 18, 13, 17 N=30			ML-MH	Clayey SILT low to high plasticity, brown and pale grey		VSt	
			9									
			10									

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GAP gINT FN. F01a
RL3



REPORT OF BOREHOLE: BH211

SHEET: 2 OF 3

DRILL RIG: FD500

CONTRACTOR: Foundril Pty Ltd

LOGGED: WJH DATE: 22/9/11

CHECKED: NK DATE: 1/10/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 82029.8 m E 61422.6 m N GCCC

PROJECT: Gold Coast Rapid Transit SURFACE RL: 14.12 m DATUM: AHD

LOCATION: Zone 2 INCLINATION: -90°

JOB NO: 117632047 HOLE DEPTH: 19.92 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		10		SPT 10.00-10.45 m 5, 8, 12 N=20			ML-MH	Clayey SILT low to high plasticity, brown and pale grey		VSt	
			M (>PL)	H								
			12						For Continuation Refer to Sheet 3			
			13									
			14									
			15									
			16									
			17									
			18									
			19									
			20									

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GAP gINT FN. F01a
RL3



REPORT OF BOREHOLE: BH211

SHEET: 3 OF 3

DRILL RIG: FD500

CONTRACTOR: Foundril Pty Ltd

LOGGED: WJH DATE: 22/9/11

CHECKED: NK DATE: 1/10/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 82029.8 m E 61422.6 m N GCCC

PROJECT: Gold Coast Rapid Transit SURFACE RL: 14.12 m DATUM: AHD

LOCATION: Zone 2 INCLINATION: -90°

JOB NO: 117632047 HOLE DEPTH: 19.92 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)	
									EL 0.03 VL 0.1 L 0.1 M 0.3 H 1 VH 3 VH10 EH				10 30 100 300 1000 3000	
				10										
				11										
				11.50	2.62		Continuation of Sheet 2							
NMLC	Groundwater not observed	100	65 (95)	12			ARGILLACEOUS MUDSTONE fine grained, brown and grey becoming dark grey from 12.0 m with white quartz bands	HW		11.55 m: J, 15°, Pl, Ro, Sn-Vr 11.73 m: J, 10°, Pl, Ro, Vr				
								MW		11.96 m: J, 15°, Un, Ro, Sn-Vr 12.02 m: J, 10°, Ro, Sn-Vr				
		100	100 (100)	13			SW		12.40 m: J, 5°, Pl, Ro, Vr 12.43 m: DS, 40° 12.49 m: J, 45°, Pl, Ro, Sn-Vr 12.56 m: J, 35°, Pl, Ro, Sn-Vr 12.69 m: J, 30°, Pl, Ro, Vr 12.84 m: J, 10°, Un, Ro, Vr 12.92 m: DB 13.28 m: J, 10°, Un, Ro, Vr 13.51 m: J, 50°, Pl, Ro 13.70 m: DB 13.80 m: DB 13.98 m: J, 50°, Pl, Ro, Vr 14.42 m: DB					
									14.86 m: J, 45°, Pl, Ro, Sn-Vr 15.12 m: J, 50°, Pl, Ro, Sn-Vr 15.29-15.55 m: J, 50°, Pl, Sn-Vr, sp = 60 mm 15.66 m: J, 10°, Un, Ro, Sn-Vr 15.76-15.90 m: DZ					
		100	80 (91)	15			MW - SW		16.13 m: J, 50°, Pl, Ro, Vr 16.22 m: J, 10°, Pl, Ro, Vr					
									16.52 m: J, 35°, Pl, Ro, Vr 16.72 m: J, 70°, Pl, Ro, Vr					
		100	100 (100)	17					17.10 m: J, 30°, Pl, Ro, Vr 17.48 m: J, 30°, Pl, Ro, Vr					
									18.29 m: J, 45°, Pl, Ro, Vr 18.36 m: J, 45°, Pl, Ro, Vr 18.50 m: J, 45°, Pl, Ro, Vr 18.76 m: J, 45°, Pl, Ro, Sn-Vr					
		100	96 (100)	18					19.14 m: J, 45°, Pl, Ro, Vr 19.22 m: J, 49°, Pl, Ro, Sn-Vr 19.26 m: J, 50°, Pl, Ro, Sn-Vr 19.35 m: J, 70°, Pl, Ro, Sn-Vr 19.44 m: J, 45°, Pl, Ro, Sn-Vr 19.55-19.71 m: FZ 19.74-19.92 m: DB					
		100	24 (54)	19			END OF BOREHOLE @ 19.92 m TARGET DEPTH GROUNDWATER NOT OBSERVED Gas well installed	MW - SW						
				19.92										

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GAP gINT FN. F02a
RL3



REPORT OF PHOTOGRAPHS: BH211

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

COORDS: 82029 m E, 61422.61 m N
SURFACE RL: 14.12 m DATUM: AHD
INCLINATION: -90°
HOLE DEPTH: 19.92 m

DEPTH RANGE: 11.50 – 19.92 m
DRILL RIG: FD500
DRILLER: Foundril Pty Ltd
LOGGED: WJH DATE: 22/9/11
CHECKED: NK DATE: 1/10/11

