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REPORT OF BOREHOLE: BH2D10

SHEET: 1 OF 3

DRILL RIG: FD500

CONTRACTOR: Foundril Pty Ltd

LOGGED: FHH DATE: 18/8/11

CHECKED: NK DATE: 26/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 82491.7 m E 61502.4 m N GCCC
PROJECT: Gold Coast Rapid Transit SURFACE RL: 7.21 m DATUM: AHD
LOCATION: Zone 2 INCLINATION: -90°
JOB NO: 117632047 HOLE DEPTH: 13.00 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
ADT			0	7.21	SPT 1.00-1.45 m 5, 7, 6 N=13			TOPSOIL: Sandy CLAY low plasticity, dark brown, with some fine to coarse angular gravel	D - M	F	Groundwater not observed	
			0.50									
			6.71				CL-ML	Clayey Sandy SILT low plasticity, pale brown, with some root	D			
			0.80				CI-ML	Silty CLAY medium plasticity, with some sand, pockets and partings of red brown fine sand		F - St		
			6.41									
			1		SPT 2.50-2.95 m 3, 10, 13 N=23 PP =300 kPa							
			2.00									
			5.21				CI-ML	Sandy CLAY medium to high plasticity, pale grey, rare pockets (recovered gravel sized) hard possible laterite				
			2									
			3		SPT 4.00-4.45 m 4, 10, 22 N=32 PP =350 kPa							
			4.00									
			3.21				CI-ML	Clayey SILT low to medium plasticity, trace fine to coarse angular to sub-rounded gravel, organic odour		St		
			4									
5		SPT 5.50-5.95 m 4, 6, 10 N=16 PP =200 kPa										
6												
7.00												
0.21					with increase in sand and zones recovered clayey gravel							
8		SPT 8.50-8.95 m 4, 9, 10 N=19 PP =200 kPa										
8.00				GP-GC	Sandy GRAVEL fine to coarse grained, angular, grey, trace clay		D					
8.50												
-1.29				CI-ML	Sandy CLAY medium plasticity, pale grey to white, with some fine grained sand, trace fine to medium angular siliceous gravel							
9.00					recovered orange brown clayey gravel of rock fragments							
9		Sandy CLAY low to medium plasticity, orange brown and pale grey, with 'lithorelicts' of thinly laminated (<6 mm) rock structure					St					
9.20												
-1.99												
10	10.00											

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.

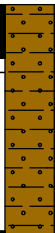
GAP gINT FN. F01a
RL3



REPORT OF BOREHOLE: BH2D10

SHEET: 2 OF 3
DRILL RIG: FD500
CONTRACTOR: Foundril Pty Ltd
LOGGED: FHH DATE: 18/8/11
CHECKED: NK DATE: 26/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 82491.7 m E 61502.4 m N GCCC
PROJECT: Gold Coast Rapid Transit SURFACE RL: 7.21 m DATUM: AHD
LOCATION: Zone 2 INCLINATION: -90°
JOB NO: 117632047 HOLE DEPTH: 13.00 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
RD	L	Groundwater not observed	10	-2.79	SPT 10.00-10.45 m 4, 7, 17 N=24				grey and orange brown, thinly laminated (<6 mm) Mudstone	M	H	ROCK
			11									
			12		SPT 11.50-11.65 m 30/149mm HB				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: BH2D10

SHEET: 3 OF 3

DRILL RIG: FD500

CONTRACTOR: Foundril Pty Ltd

LOGGED: FHH DATE: 18/8/11

CHECKED: NK DATE: 26/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 82491.7 m E 61502.4 m N GCCC

PROJECT: Gold Coast Rapid Transit SURFACE RL: 7.21 m DATUM: AHD

LOCATION: Zone 2 INCLINATION: -90°

JOB NO: 117632047 HOLE DEPTH: 13.00 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)	
				10										
				11										
				11.70	-4.49		Continuation of Sheet 2							
NMLC	Groundwater not observed	100	52 (73)	12			ARGILLACEOUS MUDSTONE fine grained, dark grey with orange staining, with rare quartz veining	HW		11.77 m: FC, 40°, Un, Sn 11.85-11.95 m: FZ, 40°, 100 mm, recovered soft clay with gravel sized rock fragments 11.87 m: FC, 0°, Un, Ro, 10 mm, clay infill 12.00 m: CZ, 40°, grey soft clay with gravel of rock fragments 12.10 m: FC, 40°, Pl, Ro, Vr, 1 mm, clay 12.47 m: FC, 40°, Un, Ro, Sn 12.70 m: Un, Ro, Sn 12.75 m: FC, 40°, Pl, Sm, Vr, 1 mm, clay 12.84 m: FC, 40°, Un, Ro, Sn 12.90 m: FC, 40°, Pl, Sm, 2 mm, clay infill 12.95 m: FC, 40°, Un, Sm, Sn				
				13	-5.79		END OF BOREHOLE @ 13.00 m GROUNDWATER NOT OBSERVED							
				14										
				15										
				16										
				17										
				18										
				19										
				20										

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GAP gINT FN. F02a
RL3



REPORT OF PHOTOGRAPHS: BH2D10

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

COORDS: 82491.7 m E, 61502.4 m N
SURFACE RL: 7.21 m DATUM: AHD
INCLINATION: -90°
HOLE DEPTH: 13.00m

DEPTH RANGE: 11.70 – 13.00 m
DRILL RIG: FD500
DRILLER: Foundril Pty Ltd
LOGGED: FHH DATE: 18/8/11
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11.70 – 13.00 m