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REPORT OF BOREHOLE: BH242

SHEET: 1 OF 3

DRILL RIG: FD500

CONTRACTOR: Foundril Pty Ltd

LOGGED: BC DATE: 15/8/11

CHECKED: NK DATE: 26/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 82403.27 m E 61263.84 m N GCCC
PROJECT: Gold Coast Rapid Transit SURFACE RL: 15.47 m DATUM: AHD
LOCATION: Zone 2 INCLINATION: -90°
JOB NO: 117632047 HOLE DEPTH: 19.10 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	15.47	SPT 1.00-1.45 m 1, 2, 3 N=5 PP =150 kPa				FILL: Sandy Silty GRAVEL fine to coarse grained, sub-angular to angular, pale brown	D	MD - D	
			0.50	14.97				FILL: Sandy CLAY high plasticity, brown, fine to coarse grained sand	F - St			
			0.90	14.57				FILL: Silty CLAY high plasticity, yellow brown, with some sub-angular to angular gravel	F			
			1.60	13.87				brown, trace fine grained sand, with some fine to medium sub-angular to angular gravel				
			2.30	13.17				FILL: Gravelly Silty CLAY high plasticity, yellow brown, fine to coarse sub-angular to angular gravel, plastic, wood and dark grey gravels noted; varying clay / gravel content				
			3.60	11.87				with some fine to coarse sub-angular to angular gravels gravel	F - St			
			4							M		
			5									
			6									
			6.30	9.17				Silty Sandy CLAY medium to high plasticity, grey brown with red				
RD			7		SPT 7.00-7.45 m 2, 5, 10 N=15							
			8.00	7.47				with some fine to medium sub-angular to angular gravel	St - VSt			
			8.20	7.27				with some fine gravel				
			9									
			9.80									
			5.57					orange brown				
			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: BH242

SHEET: 2 OF 3

DRILL RIG: FD500

CONTRACTOR: Foundril Pty Ltd

LOGGED: BC DATE: 15/8/11

CHECKED: NK DATE: 26/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 82403.27 m E 61263.84 m N GCCC

PROJECT: Gold Coast Rapid Transit

SURFACE RL: 15.47 m DATUM: AHD

LOCATION: Zone 2

INCLINATION: -90°

JOB NO: 117632047

HOLE DEPTH: 19.10 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		10		SPT 10.00-10.45 m 4, 8, 10 N=18 PP =250 kPa		CH	Silty CLAY high plasticity, pale grey and orange brown, relic rock structure	M	St - VSt		
			11									
			12	12.00 3.47	SPT 11.50-11.95 m 4, 8, 10 N=18			orange brown content increased				
			13		SPT 13.00-13.45 m 7, 12, 20 N=32 PP =220 kPa							
			14					For Continuation Refer to Sheet 3				
			15									
			16									
			17									
			18									
			19									
			20									

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GAP gINT FN. F01a
RL3



REPORT OF BOREHOLE: BH242

SHEET: 3 OF 3

DRILL RIG: FD500

CONTRACTOR: Foundril Pty Ltd

LOGGED: BC DATE: 15/8/11

CHECKED: NK DATE: 26/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 82403.27 m E 61263.84 m N GCCC
PROJECT: Gold Coast Rapid Transit SURFACE RL: 15.47 m DATUM: AHD
LOCATION: Zone 2 INCLINATION: -90°
JOB NO: 117632047 HOLE DEPTH: 19.10 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								10	
				11								20	
				12								300	
				13								1000	
				13.50			Continuation of Sheet 2					3000	
				1.97			CORE LOSS	EW					
				13.80									
				1.67			ARGILLACEOUS SILTSTONE fine grained, orange brown and pale grey, thinly to thickly laminated (6-20 mm), laminations planar to undulating smooth and in places polished, with bands of siliceous fine angular gravel			14.00-14.10 m: CZ, Pl, Sm, clay infill with gravel sized siliceous fragments.			
		95	0 (0)	14									
				15						15.10-15.30 m: CZ, recovered firm sandy clay with fragments of siliceous fine gravel			
		91	0 (0)	16									
				17									
		100	0 (0)	16.90			grey and orange brown, thinly laminated (<20 mm) inclined (40°) with bands (<6 mm thickness) of siliceous fine gravel and sand, laminations planar to undulating, rough and heavily stained orange brown	EW - HW					
				-1.43									
		96	0 (0)	18									
				19									
				19.10			END OF BOREHOLE @ 19.10 m TARGET DEPTH Plugged upon completion						
				-3.63									
				20									

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GAP gINT FN. F02a
RL3



PRELIMINARY REPORT OF PHOTOGRAPHS:

BH242

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

COORDS: 82403.27 m E, 61263.84 m N
SURFACE RL: 15.47 m DATUM: AHD
INCLINATION: -90°
HOLE DEPTH: 19.10 m

DEPTH RANGE: 13.50 – 19.10 m
DRILL RIG: FD500
DRILLER: Foundrill Pty Ltd
LOGGED: LP/BC DATE: 15/08/11
CHECKED: DATE: 15/9/11



13.50 – 19.10 m