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Client:	Department of Transport and Main Roads	Date Commenced:	11/2/10
Project:	Gold Coast Rapid Transit	Date Completed:	11/2/10
Borehole Location:	Proposed University Hospital Station, Parklands Drive, Ch: 19363.6	Recorded By:	NG
Project Number:	2161016A	Log Checked By:	<i>LMK</i>

Drill Model/Mounting:	Drillpower Jackro 350	Hole Angle:	90°	Surface RL:	22.87 m AHD*
Borehole Diameter:	100 mm	Bearing:	---	Co-ords:	E 81377.87 N 62166.99 GCCC Grid*

Borehole Information						Field Material Description						
1	2	3	4	5	6	7	8	9	10	11	12	13
METHOD	SUPPORT	WATER	RL(m) AHD*	DEPTH(m)	FIELD TEST	SAMPLE	GRAPHIC LOG	USC SYMBOL	SOIL/ROCK MATERIAL FIELD DESCRIPTION	MOISTURE	RELATIVE DENSITY / CONSISTENCY	STRUCTURE AND ADDITIONAL OBSERVATIONS
TC	C			0.20					ASPHALT			ASPHALT
				0.60					FILL (Sandy CLAY): medium plasticity, pale yellow	MC<PL		FILL
				1.20	SPT 1,2,2 N=4	SPT			... extremely weathered extremely low strength meta-siltstone rock fragments			
WB	M			1.70				CL	Sandy CLAY: medium plasticity, pale grey mottled pale yellow, trace of rootlets			RESIDUAL SOIL
				2.10				CL	Silty CLAY: medium plasticity, pale brown	MC>PL		
				3.00	SPT 3,7,8 N=15	SPT			... red mottled white, high plasticity			
				4.20	SPT 6,10,15 N=25	SPT			... low to medium plasticity, trace fragments of extremely weathered meta-siltstone			
				5.60	SPT 5,9,12 N=21	SPT			... increasing amounts of extremely weathered rock in red clay matrix			
				8.00	SPT 4,10,15 N=25	SPT						
				14.00	SPT 15,21,30 N=51	SPT			META-SILTSTONE: pale grey to white mottled yellow purple and red, extremely weathered extremely low strength			WEATHERED ROCK
												Foliation angle approximately 60°

This borehole log should be read in conjunction with Parsons Brinckerhoff's accompanying standard notes.



BOREHOLE ENGINEERING LOG

BOREHOLE NO.

UBH02

SHEET 2 OF 4

Client: Department of Transport and Main Roads Date Commenced: 11/2/10
Project: Gold Coast Rapid Transit Date Completed: 11/2/10
Borehole Location: Proposed University Hospital Station, Parklands Drive, Ch: 19363.6 Recorded By: NG
Project Number: 2161016A Log Checked By: *LMK*

Drill Model/Mounting: Drillpower Jackro 350 Hole Angle: 90° Surface RL: 22.87 m AHD*
Borehole Diameter: 100 mm Bearing: --- Co-ords: E 81377.87 N 62166.99 GCCC Grid*

Borehole Information						Field Material Description						
1	2	3	4	5	6	7	8	9	10	11	12	13
METHOD	SUPPORT	WATER	RL(m) AHD*	DEPTH(m)	FIELD TEST	SAMPLE	GRAPHIC LOG	SOIL/ROCK MATERIAL FIELD DESCRIPTION	MOISTURE	RELATIVE DENSITY / CONSISTENCY	HAND PENETROMETER (kPa)	STRUCTURE AND ADDITIONAL OBSERVATIONS
WB					SPT 11,21,29 N=50	SPT		META-SILTSTONE: pale grey to white mottled yellow purple and red, extremely weathered extremely low strength (<i>continued</i>)				
				12								
				11								
					SPT 12,25,30 /130mm	SPT						
				12								
				10								
				13	SPT 16,30,30 /130mm	SPT						
				9								
				14				REFER TO CORED BOREHOLE LOG				
				8								
				15								
				7								
				16								
				6								
				17								
				5								
				18								
				4								
				19								
				3								

This borehole log should be read in conjunction with Parsons Brinckerhoff's accompanying standard notes.



CORED BOREHOLE ENGINEERING LOG

BOREHOLE NO.

UBH02

SHEET 3 OF 4

Client: Department of Transport and Main Roads Date Commenced: 11/2/10
Project: Gold Coast Rapid Transit Date Completed: 11/2/10
Borehole Location: Proposed University Hospital Station, Parklands Drive, Ch: 19363.6 Recorded By: NG
Project Number: 2161016A Log Checked By: LMC/L

Drill Model/Mounting: Drillpower Jackro 350 Hole Angle: 90° Surface RL: 22.87 m AHD*
Borehole Diameter: 100 mm Bearing: --- Co-ords: E 81377.87 N 62166.99 GCCC Grid*

Borehole Information						Field Material Description						
1	2	3	4	5	6	7	8	9	10	11	12	
METHOD	SUPPORT	WATER	CORE RECOVERY	RQD	RL(m) AHD*	DEPTH(m)	GRAPHIC LOG	SOIL/ROCK MATERIAL FIELD DESCRIPTION	WEATHERING	INFERRED STRENGTH Is(50) MPa	AVERAGE DEFECT SPACING mm	STRUCTURE AND ADDITIONAL OBSERVATIONS
									EL 0.03 VL 0.1 L 0.3 M 1 H 3 VH 10 EH 10	10 30 100 300 1000 3000		
						12						
						11						
						12						
						10						
						13						
						9						
						14		COMMENCE CORING AT 14 m				
NMLC	M		43	0		14.50		META-SILTSTONE: red, purple and white, extremely weathered extremely low strength	XW			
						8		CORE LOSS				
WB						15.10		META-SILTSTONE: red, purple and white, extremely weathered extremely low strength				
						7		... white mottled red				16.0-16.4m, SPT, 9,28,30/100mm, Refusal 16.0-16.2m weathered to consistency of medium plasticity, hard clay
						16.00						
						6						
						17.00		META-SANDSTONE: fine grained, pale grey to white mottled purple yellow and pale orange, extremely weathered extremely low strength	XW			
NMLC			100	100		18						Non Intact Core
			44	10		18.50		CORE LOSS				
						19.00		META-SANDSTONE: fine grained, pale grey to white mottled purple yellow and pale orange, extremely weathered extremely low strength	XW			Non Intact Core
			69	0		19.70		CORE LOSS				
						3						

This borehole log should be read in conjunction with Parsons Brinckerhoff's accompanying standard notes.



CORED BOREHOLE ENGINEERING LOG

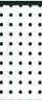
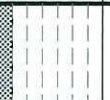
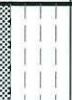
BOREHOLE NO.

UBH02

SHEET 4 OF 4

Client: Department of Transport and Main Roads Date Commenced: 11/2/10
Project: Gold Coast Rapid Transit Date Completed: 11/2/10
Borehole Location: Proposed University Hospital Station, Parklands Drive, Ch: 19363.6 Recorded By: NG
Project Number: 2161016A Log Checked By: LMC

Drill Model/Mounting: Drillpower Jackro 350 Hole Angle: 90° Surface RL: 22.87 m AHD*
Borehole Diameter: 100 mm Bearing: --- Co-ords: E 81377.87 N 62166.99 GCCC Grid*

Borehole Information						Field Material Description						
1	2	3	4	5	6	7	8	9	10	11	12	
METHOD	SUPPORT	WATER	CORE RECOVERY	RQD	RL(m) AHD*	DEPTH(m)	GRAPHIC LOG	SOIL/ROCK MATERIAL FIELD DESCRIPTION	WEATHERING	INFERRED STRENGTH Is(50) MPa	AVERAGE DEFECT SPACING mm	STRUCTURE AND ADDITIONAL OBSERVATIONS
NMLC			50	40	20.00			META-SANDSTONE: fine grained pale grey to white mottled purple, yellow and pale orange, extremely weathered extremely low strength	XW			Non Intact Core
					20.65	2		CORE LOSS				
					21			END OF BOREHOLE AT 21.00 m				* Horizontal and vertical data determined by ground survey
					22	1						
					23	0						
					24	-1						
					25	-2						
					26	-3						
					27	-4						
					28	-5						
					29	-6						
						-7						

This borehole log should be read in conjunction with Parsons Brinckerhoff's accompanying standard notes.

REPORT OF PHOTOGRAPHS



Borehole number: **UBH02**

Sheet 1 of 1

Client:	Department of Transport and Main Roads	Coordinates:	E 81377.87 N 62166.99	Depth range:	14.0 m – 21.0 m
Project:	Gold Coast Rapid Transit	Surface RL:	22.87 m AHD	Inclined length:	–
Borehole location:	Ch: 19410	Hole angle:	90 °	Drill model/mounting:	Hydrapower Scout
Project number:	2161016A	Bearing:	–	Borehole diameter:	75 mm

