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BOREHOLE ENGINEERING LOG

BOREHOLE NO.

UBH08

SHEET 1 OF 3

Client: Department of Transport and Main Roads
Project: Gold Coast Rapid Transit
Borehole Location: Proposed University Hospital Station, Parklands Drive, Ch: 19486.3
Project Number: 2161016A
Date Commenced: 12/2/10
Date Completed: 12/2/10
Recorded By: DS
Log Checked By: *ZMK*

Drill Model/Mounting: Drillpower Jackro 350
Borehole Diameter: 100 mm
Hole Angle: 90°
Bearing: ---
Surface RL: 23.25 m AHD*
Co-ords: E 81478.26 N 62099.59 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	Nil			0.05					ASPHALT	D		PAVEMENT MATERIALS
				23					FILL (Silty GRAVEL): fine to coarse grained, grey, roadbase			
				0.60					FILL (Gravelly SAND): medium to coarse grained, brown, fine grained gravel, trace low plasticity fines			
				0.80				CH				RESIDUAL SOIL
WB	M			1.00	SPT 30 /120mm	SPT		SC/CA	Silty CLAY : high plasticity pale brown	MC<PL		WEATHERED ROCK
				1.12					Sandy CLAY/Clayey SAND: orange, low plasticity fines, fine grained sand.			
				22					META-SILTSTONE : pale grey-brown mottled orange and red-brown, extremely weathered extremely low strength			
				2								
				21								
					SPT 23,70 /100mm	SPT						
				3								
				20								
					SPT 30 /140mm	SPT						
				4								
				19								
					SPT 8,17,29 N=46	SPT						
				5								
				18								
					SPT 22,30 /120mm	SPT						J in SPT sample, 60°P, R, clay infill 2mm
				7								
				16								trace of fine grained quartz gravel in SPT sample
				8								
				15								
				9								
				14					REFER TO CORED BOREHOLE LOG			

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

UBH08

SHEET 2 OF 3

Client:	Department of Transport and Main Roads
Project:	Gold Coast Rapid Transit
Borehole Location:	Proposed University Hospital Station, Parklands Drive, Ch: 19486.3
Project Number:	2161016A

Date Commenced: 12/2/10

Date Completed: 12/2/10

Recorded By: **DS**

Log Checked By: LMK

Drill Model/Mounting: **Drillpower Jackro 350**

Hole Angle: 90°

Surface RL: **23.25 m AHD***

Borehole Diameter: 100 mm

Bearing:

Co-ords: **E 81478.26 N 62099.59 GCCC Grid***

Borehole Information						Field Material Description						
1	2	3	4	5	6	7	8	9	10	11	12	
METHOD	SUPPORT	WATER	CORE RECOVERY	ROD	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 W 1 H 3 CH 10			
					-23							
					1							
					-22							
					2							
					-21							
					3							
					-20							
					4							
					-19							
					5							
					-18							
					6							
					-17							
					7							
					-16							
					8							
					-15							
					9							
					-14							
NMLC	M		88	70	9.20			COMMENCE CORING AT 9.1 m CORE LOSS META-SILTSTONE : pale grey-brown mottled orange and red-brown, extremely weathered extremely low strength	XW			9.43 m: DS, P, (CH) clay, trace fine quartz sand 9.4 m - 9.6 m: DS

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

Client: Department of Transport and Main Roads
 Project: Gold Coast Rapid Transit
 Borehole Location: Proposed University Hospital Station, Parklands Drive, Ch: 19486.3
 Project Number: 2161016A

Date Commenced: 12/2/10
 Date Completed: 12/2/10
 Recorded By: DS
 Log Checked By: *Lmck*

Drill Model/Mounting: Drillpower Jackro 350
 Borehole Diameter: 100 mm

Hole Angle: 90°
 Bearing: ---

Surface RL: 23.25 m AHD*
 Co-ords: E 81478.26 N 62099.59 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									WEATHERING EL 0.03 VL 0.1 J L 0.3 M H 3 VH 10 EH	30 100 300 1000 3000		
			100	40	10.00	13		META-SANDSTONE: fine grained, grey-brown mottled orange and red-brown	XW			9.95 m - 10.0 m: Non Intact Core
					10.90			... 10.95 m: quartz vein 10mm				10.3 m - 10.32 m: DS
			90	40	11.00	12		CORE LOSS	HW			10.5 m - 11.0 m: Non Intact Core
					11.10			META-SANDSTONE: fine grained, grey-brown mottled orange and red-brown				11.2 m: DS
					12.04	12		META-SILTSTONE : grey mottled orange-brown	XW			11.25 m: DS
			100	10	12.96	11		META-SANDSTONE: fine grained, red-brown mottled purple and orange	HW			11.3 m: J, 45°, P, S, Fe stained
					13.45			... grey				11.4 m - 11.5 m: Non Intact Core
			100	0	14.14	14		13.82 m - 14.14 m layer of meta-siltstone grey brown mottled orange	XW			11.57 m: J, 60°, Fe stained
					14.15			... grey mottled orange-brown	HW			11.6 m - 11.7 m: 2 x DB
			100	25	14.80	9		... thin siltstone lamination, grey, trace of fine sand	XW			11.72 m - 11.88 m: J, 80°P, S, Fe staining
					15.10			... 15.1 m - 5.2 m meta-siltstone	HW			11.95 m: DS
			87	35	15.50	13		META-SILTSTONE : grey green mottled orange	XW			12.4 m - 12.8 m: Non Intact Core
					16.10			... 16.1 m - 16.2 m trace of fine sand				13.0 m - 13.2 m: Non Intact Core
					16.30			CORE LOSS				13.45 m - 14.0 m: Non Intact Core
					16.50			META-SILTSTONE : grey green with orange staining	XW			13.75 m: J, 45°, P, S, Fe stained
			66	35	17.00	17		... 17.0 m - 17.2 m grey brown				14.1 m - 14.14 m: DS sand infill
					17.50			CORE LOSS				14.4 m - 14.5 m: J, 70°, P, S, Clean
					18.00	18		... quartz vein, medium grained gravel size quartz fragments	HW			14.58 m - 14.85 m: DS
			70		18.05	5		META-SANDSTONE: fine grained, grey with red brown and orange staining in parts				14.75 m - 14.85 m: Non Intact Core
					18.70			CORE LOSS				14.9 m: Jx 2, 80°, P,S, Clean
					19.00	19		META-SILTSTONE: brown with orange and red brown staining	XW			15.35 m: J, 5° P, R, Fe stained
								... grey green with red brown and orange staining in part	HW			15.45 m - 15.5 m: Non Intact Core
												15.7 m: foliation crenulations
												15.9 m - 16.3 m: Non Intact Core
												17.1 m - 17.3 m: Non Intact Core
												17.4 m - 17.5 m: Non Intact Core
												18.0 m - 18.2 m: Non Intact Core
												18.2 m - 18.55 m: multiple healed fractures with Fe staining, 60°
												18.55 m - 18.7 m: Non Intact Core
												19.37 m: DS, 3cm
												19.4 m - 20.0 m: Non Intact Core
												* Horizontal and vertical data determined by ground survey

END OF BOREHOLE AT 20.00 m
 This borehole log should be read in conjunction with Parsons Brinckerhoff's accompanying standard notes.

REPORT OF PHOTOGRAPHS



Borehole number: **UBH08**

Sheet 1 of 1

Client:	Department of Transport and Main Roads	Coordinates:	E 81478.26 N 62099.59	Depth range:	9.1 m – 20.0 m
Project:	Gold Coast Rapid Transit	Surface RL:	23.25 m AHD	Inclined length:	–
Borehole location:	Ch: 19530	Hole angle:	90 °	Drill model/mounting:	Hydrapower Scout
Project number:	2161016A	Bearing:	–	Borehole diameter:	75 mm

