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BOREHOLE ENGINEERING LOG

BOREHOLE NO.

UBH10

SHEET 1 OF 4

Client: Department of Transport and Main Roads
Project: Gold Coast Rapid Transit
Borehole Location: Proposed Parklands Drive cutting, Ch: 19457.6
Project Number: 2161016A

Date Commenced: 16/2/10
Date Completed: 16/2/10
Recorded By: DS
Log Checked By: LMK

Drill Model/Mounting: Drillpower Jackro 350
Borehole Diameter: 75 mm

Hole Angle: 90°
Bearing: ---
Surface RL: 23.96 m AHD*
Co-ords: E 81472.3 N 62147.11 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
VS	FB	VL	MD	ST	VD							
TC	C							FILL (Sandy GRAVEL): fine to coarse grained, dark grey, roadbase				FILL
WB	Nil							META-SILTSTONE: pale grey mottled orange and grey, extremely weathered, has consistency of hard silty clay				WEATHERED ROCK
								... extremely low strength				
								META-SILTSTONE: pale grey mottled orange and grey, extremely weathered.				
								REFER TO CORED BOREHOLE LOG				

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 Parklands Drive cutting, Ch: 19457.6
Project Number:	2161016A

Date Commenced: 16/2/10

Date Completed: 16/2/10

Recorded By: **DS**

Log Checked By: *ZMc*

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

Hole Angle: **90°**

Surface RL: **23.96 m AHD***

Borehole Diameter: **75 mm**

Bearing:

Co-ords: **E 81472.3 N 62147.11 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 VL VLL LM LH VH EH	0.03 0.1 0.3 1 3 10	10 30 100 300 1000 3000	
					-23	1						
					-22	2						
					-21	3						
					-20	4						
					-19	5						
					-18	6						
					-17	7						
					-16	8						
					-15	9						
NMLC	Nil		100	70				COMMENCE CORING AT 9 m META-SANDSTONE: fine grained, grey-brown mottled orange and purple-red	HW			9.0 m - 10.0 m: 5 x DB 9.32 m - 9.39 m: CZ 9.45 m: DS 9.52 m: DS

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



CORED BOREHOLE ENGINEERING LOG

BOREHOLE NO.

UBH10

SHEET 3 OF 4

Client: Department of Transport and Main Roads
Project: Gold Coast Rapid Transit
Borehole Location: Proposed Parklands Drive cutting, Ch: 19457.6
Project Number: 2161016A

Date Commenced: 16/2/10
Date Completed: 16/2/10
Recorded By: DS
Log Checked By: LMC

Drill Model/Mounting: Drillpower Jackro 350
Borehole Diameter: 75 mm

Hole Angle: 90°
Bearing: ---

Surface RL: 23.96 m AHD*
Co-ords: E 81472.3 N 62147.11 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)	SOIL/ROCK MATERIAL FIELD DESCRIPTION	WEATHERING	INFERRED STRENGTH Is(50) MPa	AVERAGE DEFECT SPACING mm	STRUCTURE AND ADDITIONAL OBSERVATIONS
NMLC											
			100	80		10.22	META-SILTSTONE: grey mottled red-brown and orange	HW			10.0 m - 11.0 m: 5 x DB
						10.50	... 10.5 m - 10.6 m: meta-sandstone, fine grained, brown	XW-HW			10.5 m: DS, 2 cm
						11.02	... 11.02 m - 11.13 m: meta-sandstone, fine grained, grey-brown				10.6 m: CZ
						11.48	META-SANDSTONE: fine grained, pale grey-brown mottled orange brown and purple	HW			10.92 m: PP 330
			100	85		12					11.0 m - 12.0 m: 3 x DB
						12.95	... 12.95 m - 13.19 m: meta-siltstone, grey				12.4 m - 12.5 m: Non Intact Core
			100	90		14	... 14.2 m - 14.3 m: meta-siltstone, pale grey				12.93 m: PP 470
						14.50	... 14.5 m - 14.6 m: meta-siltstone, pale grey				13.0 m - 13.2 m: Non Intact Core
			38	0		15	CORE LOSS				13.46 m: DB
						16.00	META-SILTSTONE: grey	XW			13.84 m: DB
			90	0		16.10	META-SANDSTONE: fine grained, grey-brown with orange and purple staining along healed defects	XW			14.0 m - 14.75 m: Non Intact Core
						17.00	CORE LOSS				16.0 m - 16.42 m: Non Intact Core
			80	50		17.10	META-SANDSTONE: fine grained, grey with orange and purple staining on healed defects	XW			16.08 m: PP 370
						18					16.61 m: PP 400
			100	60		18.46	META-SILTSTONE: pale grey				16.9 m - 17.0 m: Non Intact Core
						18.93	META-SANDSTONE: fine grained, pale grey				17.28 m: PP 460
			82	60		19.92					stained healed defects at 60°
											18.46 m: B, 60°, P
											18.54 m: PP 300
											18.78 m: PP 280
											19.86 m: discing

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

REPORT OF PHOTOGRAPHS



Borehole number: **UBH10**

Sheet 1 of 1

Client:	Department of Transport and Main Roads	Coordinates:	E 81472.3 N 62147.11	Depth range:	9.0 m – 25.0 m
Project:	Gold Coast Rapid Transit	Surface RL:	23.96 m AHD	Inclined length:	-
Borehole location:	Ch: 19510	Hole angle:	90 °	Drill model/mounting:	Hydrapower Scout
Project number:	2161016A	Bearing:	-	Borehole diameter:	75 mm

