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BOREHOLE ENGINEERING LOG

BOREHOLE NO.



SHEET 1 OF 4

Client: **Department of Transport and Main Roads** Date Commenced: 12/2/10 Project: **Gold Coast Rapid Transit** 12/2/10 Date Completed: Borehole Location: Proposed University Hospital Station, Parklands Drive, Ch. 19452.2 DS/NG Recorded By: Project Number: 2161016A Log Checked By: mon

Drill Model/Mounting: Drillpower Hydrapower Scout Hole Angle: 90° Surface RL: 25.04 m AHD*

100 YEARS

	CITO	le D	iameter:	75 mn	n			Bearing: Co-c	ord	s: E	81430	.53 N 62084.58 GCCC G
	В	orel	nole Infori	mation	-			Field Material De	scr	iption		
1	2		4	5	6	7	8	9	10	11	12	13
МЕТНОБ	SUPPORT	WATER	RL(m) AHD* DEPTH(m)	FIELD TEST	SAMPLE	GRAPHIC LOG	USC SYMBOL	SOIL/ROCK MATERIAL FIELD DESCRIPTION	MOISTURE	RELATIVE DENSITY / CONSISTENCY RELATIVE DENSITY / CONSISTENCY RELATIVE DENSITY / CONSISTENCY RELATIVE DENSITY / CONSISTENCY	HAND PENETROMETER (KPa)	STRUCTURE AND ADDITIONA OBSERVATIONS
TC			_		1	7777		Topsoil (Silty SAND): fine grained, grey brown	D	TITIT		TOPSOIL
3 347			- 0.15 - 0.70				СН	Silty CLAY: high plasticity, pale brown	MC <pl< td=""><td></td><td></td><td>RESIDUAL SOIL</td></pl<>			RESIDUAL SOIL
VΒ	М		- 24 1· -	SPT - 21,30 \/110mm	SPT			META-SILTSTONE: grey-white mottled orange, brown and red, extremely weathered extremely low strength				WEATHERED ROCK
*/			- - - ₋₂₃ 2· -					ĭ				
			_ 2.60 - _22 3-	30,30 /90mm	SPT			2.6 m: pale orange staining, rootlets present				
			- - - -21 ⁴⁻	SPT	SPT			8				
			_	30 /140mm				REFER TO CORED BOREHOLE LOG				
2			- - - - - - - - - - -	-								
			- - - - - - - - - -									
			–16 9- - - -					9				



CORED BOREHOLE ENGINEERING LOG

BOREHOLE NO.

UBH06

12/2/10

DS/NG

MYL

SHEET 2 OF 4 Department of Transport and Main Roads Date Commenced: 12/2/10

Client: Project: **Gold Coast Rapid Transit**

Date Completed:

Borehole Location: Proposed University Hospital Station, Parklands Drive, Ch. 19452.2 Recorded By: Project Number: 2161016A Log Checked By:

Drill Model/Mounting: **Drillpower Hydrapower Scout** 90° 25.04 m AHD* Hole Angle: Surface RL:

Bore				eter: 75 mm Bearing: Co-ords:								E 81430.53 N 62084.58 GCCC Grid		
					mat			300 4			/laterial De			
1	2	3	4	5		6	4	7	8	9	10	11	12	
МЕТНОВ	SUPPORT	WATER	CORE RECOVERY	RQD	RL(m) AHD*	i i i	DEP I H(m)	GRAPHIC LOG	SOIL/ROCK MATERIAL FIELD DESCRIPTION	WEATHERING	INFERRED STRENGTH Is(50) MPa VH 3 1.2 EH 10 EH 1	AVERAGE DEFECT SPACING mm	STRUCTURE AND ADDITIONAL OBSERVATIONS	
2)						2								
NMLC	М		70	0	- - <u>-21</u> - - -	4.70 —			COMMENCE CORING AT 4.1 m META-SANDSTONE: fine grained pale grey mottled pale red and orange CORE LOSS	xw			- 4.1 m - 4.7 m: Non intact core	
WB					-20 - - - -19 -	5.ω -5			META-SANDSTONE: medium grained white mottled pale yellow and orange, extremely weathered extremely low strength				- 6.0 m - 6.1m: SPT, 30/100mm, Refusal	
NMIC			56	0	18 	7.60	-		META-SANDSTONE: medium grained white mottled pale yellow and orange CORE LOSS					
			96	80	-17 - - - - -16	s.co -8	-		META-SANDSTONE: medium grained white mottled pale yellow and orange	xw			8.5 m: J, 80°, S, P,Clean	
			20	20		9.70 —	-		CORE LOSS					

DD 100 YEARS

Client:

CORED BOREHOLE ENGINEERING LOG

BOREHOLE NO.

UBH06

12/2/10

DS/NG

1011

Department of Transport and Main Roads

Date Commenced: 12/2/10

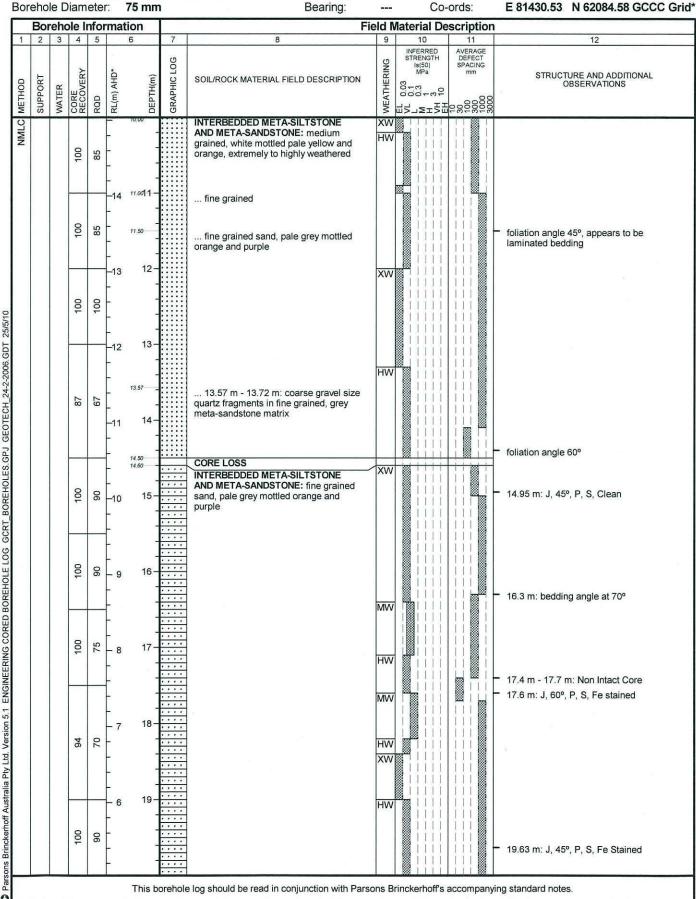
Project: Gold Coast Rapid Transit Date Completed:

Borehole Location: Proposed University Hospital Station, Parklands Drive, Ch: 19452.2 Recorded By:

Project Number: 2161016A Log Checked By:

Drill Model/Mounting: Drillpower Hydrapower Scout
Borehole Diameter: 75 mm

Hole Angle: 90°
Bearing: --- Co-ords: E 81430.53 N 62084.58 GCCC Grid





CORED BOREHOLE ENGINEERING LOG

BOREHOLE NO.

UBH06

SHEET 4 OF 4

Client: Project: Department of Transport and Main Roads

Date Commenced: Date Completed:

12/2/10

Borehole Location:

Gold Coast Rapid Transit Proposed University Hospital Station, Parklands Drive, Ch. 19452.2

Recorded By: Log Checked By:

12/2/10 DS/NG MOR

Project Number: Drill Model/Mounting: 2161016A

Drill	Mo				u.	Drillno		Hydrapower Scout Hole Angle:	90	0	Sur	face RL:	25.04 m AHD*
			iam			75 mm		Bearing:				ords:	E 81430.53 N 62084.58 GCCC Gr
	Bor	reho	ole Ir	nfor	mat	tion		Fi	eld N	Ma	terial De	scription	1
1	2	3	4	5		6	7	8	9	L	10	11	12
METHOD	SUPPORT	WATER	CORE RECOVERY	RQD	RL(m) AHD*	DEPTH(m)	GRAPHIC LOG	SOIL/ROCK MATERIAL FIELD DESCRIPTION	WEATHERING	0.03	INFERRED STRENGTH Is(50) MPa	AVERAGE DEFECT SPACING mm	STRUCTURE AND ADDITIONAL OBSERVATIONS
NMLC	2		100	75	- - - - -	20.10 -		INTERBEDDED META-SILTSTONE AND META-SANDSTONE: fine grained sand, pale grey mottled orange and purple (continued) 20.1 m - 20.4 m: meta-sandstone, fine grained, pale brown 20.82 m - 20.98 m: quartz vein, very high strength, fragmented, Fe stained	XW	7 P 			20.82 m: foliation angle 30° 20.82 m - 20.98 m: Non Intact Core
			100	95	- - - - - 3	21.30 -		21.3 m - 21.35 m: meta-sandstone, fine grained					
		. I i	100	06	- - - - - 2	22.70		22.7 m - 23.05 m: trace of fine grained sand					
			100	100	- - - -	23.50 - 23.50 - 23.90 - 24 -		20mm thick quartz vein 20mm thick quartz vein coarse grained quartz					
			92	10	-	24.27 -		24.27 m - 24.48 m: quartz vein					24.27 m - 24.48 m: Non Intact Core
					= 0 - - -	- 25 - - -		END OF BOREHOLE AT 25.00 m					* Horizontal and vertical data determined by ground survey
					- 1 - - -	26 -	39						6
					2 - - - - -	27 - - - - - 28 -							2
					- - - - 4	- - - 29 –							265
					-	This be	orehold	e log should be read in conjunction with Pars	ons P	Pring	kerhoffs:	9000mpan	ving standard notes

REPORT OF PHOTOGRAPHS



Borehole number:

UBH06

of

Client:

Department of

Transport and Main Roads Coordinates: E 81430.53 N 62084.58

Depth range:

4.1 m - 25.0 m

Project:

Gold Coast Rapid Transit

Surface RL:

25.04 m AHD

Inclined length:

Sheet

Borehole location:

Ch: 19500

Hole angle:

90°

Drill model/mounting:

Hydrapower Scout

Project number:

2161016A

Bearing:

_

Borehole diameter:

75 mm

