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BOREHOLE ENGINEERING LOG

BOREHOLE NO.



100

SHEET 1 OF 4

8/3/10

9/3/10

DS

2 mc/

Client: Project: Department of Transport and Main Roads

Gold Coast Rapid Transit

Borehole Location: Project Number:

Gold Coast Highway, Ch: 30535.3

2161016A

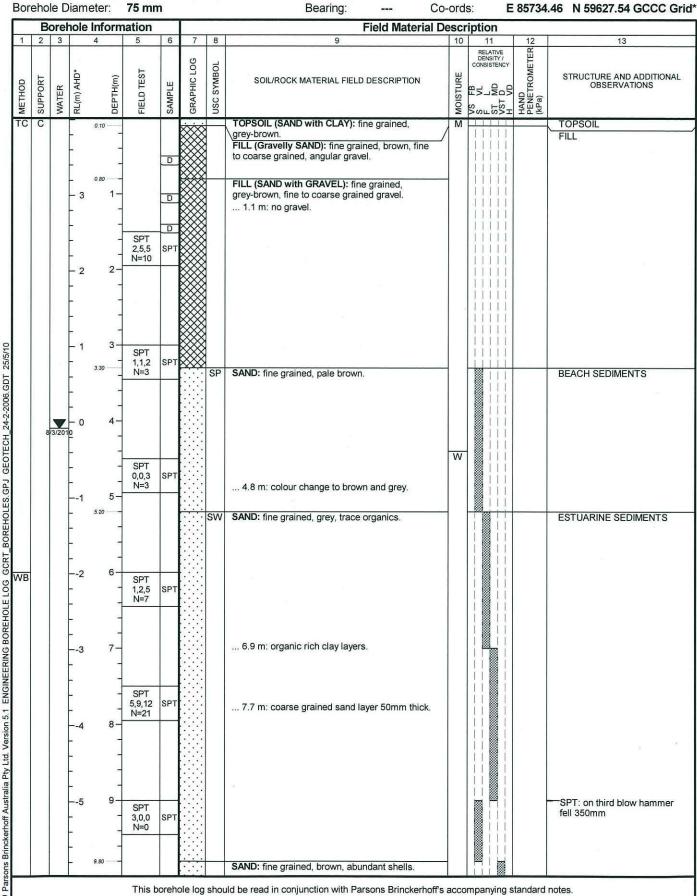
Log Checked By: 4.02 m AHD*

Date Commenced:

Date Completed:

Recorded By:

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



BOREHOLE ENGINEERING LOG

BOREHOLE NO.

8/3/10

9/3/10

RTBH23

SHEET 2 OF 4

100 YEARS @

Borehole Location:

Client:

Project:

Department of Transport and Main Roads

Gold Coast Rapid Transit

Gold Coast Highway, Ch: 30535.3

Project Number: 2161016A

Date Completed: Recorded By:

DS LM96 Log Checked By:

Date Commenced:

Drill Model/Mounting: Drillpower Hydrapower Scout

Hole Angle:

90° Surface RL: 4.02 m AHD*

			IIOIC		nation				Field Material D				
1	2	3		4	5	6	7	8	9	10	11	12 rc	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 S L Q L S A C A C A C A C A C A C A C A C A C A	HAND PENETROMETER (PA)	STRUCTURE AND ADDITIONA OBSERVATIONS
/B			-	-	OPT				SAND: fine grained, brown, abundant shells. (continued) 10.2 m: abundance of white shells.	W			Coffee rock (?)
			- - 7	- 11-	SPT 15,30 /140mm	SPT							
	9		-	11.20 -				SC	Interlayered SAND and SAND with CLAY: fine grained sand, brown, fine grained sand with clay, high plasticity, dark grey.				*
			- 8	12- -	SPT 5,10,13	SPT							
			-	-	N=23 - SPT 3,6,11 SPT N=17				Interlayered SAND and SAND with CLAY: fine grained sand, brown, fine grained sand with clay, high plasticity, dark grey.		la .		
			9 -	13 <i>-</i>									
				- - -									
			- 10 - -	14 – - -									
			- - -11	14.80 - 15-	ē			sw	SAND: fine grained, grey-white.				
			-	-					\dots 15.2 m - 15.5 m: trace quartz gravel, fine grained.	N.			
			- - 12	- 16 <i>-</i>						7			
			-	-	SPT 18,25,30	SPT							
			- - 13 -	17 – -	/130mm								
			-	-					17.7 m: wood fragments.				
			- 14 - -	17.90 18 —	-		/	СН	CLAY: medium plasticity, grey-brown and black in parts, trace fine grained quartz gravel.				RESIDUAL SOIL
			- - - 15	- - 19 –			//						
			- - -	19.20 -	SPT		<u>/</u> 		META-SILTSTONE: grey-brown and dark grey, extremely weathered, extremely low strength with quartz veins <5mm thick.				WEATHERED ROCK
			-	-	30 /145mm	SPT					liiiiil		

BOREHOLE ENGINEERING LOG

BOREHOLE NO.

SHEET 3 OF 4

RTBH23

100 YEARS

Client:

Project:

Department of Transport and Main Roads

Gold Coast Rapid Transit

Borehole Location: Project Number:

Gold Coast Highway, Ch: 30535.3

2161016A

Hole Angle:

90°

Surface RL:

Log Checked By: 4.02 m AHD*

Date Commenced:

Date Completed:

Recorded By:

m 41

8/3/10

9/3/10

DS

Drill Model/Mounting: **Drillpower Hydrapower Scout** Borehole Diameter: Bearing: E 85734.46 N 59627.54 GCCC Grid* 75 mm Co-ords: Field Material Description **Borehole Information** HAND PENETROMETER (KPa) GRAPHIC LOG JSC SYMBOL RL(m) AHD* STRUCTURE AND ADDITIONAL OBSERVATIONS FIELD TEST SOIL/ROCK MATERIAL FIELD DESCRIPTION METHOD WATER META-SILTSTONE: grey-brown and dark grey, extremely weathered, extremely low strength with quartz veins <5mm thick. (continued) ... 20.4 m: dark grey, thinly laminated. SPT 10,18,21 N=39 22 20,30 /100mm 23 GEOTECH 24-2-2006.GDT 25/5/10 24 SPT 18,30 GCRT BOREHOLES.GPJ 25 REFER TO CORED BOREHOLE LOG **ENGINEERING BOREHOLE LOG** 27 28 29

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



Project:

CORED BOREHOLE ENGINEERING LOG

BOREHOLE NO.

RTBH23

8/3/10

9/3/10

DS

SHEET 4 OF 4

Client: Department of Transport and Main Roads

Gold Coast Rapid Transit

Borehole Location:

Drill Model/Mounting:

Gold Coast Highway, Ch: 30535.3

2161016A Project Number:

Drillpower Hydrapower Scout

Hole Angle:

90° Surface RL: Log Checked By: 4.02 m AHD*

Date Commenced:

Date Completed:

Recorded By:

E 85734.46 N 59627.54 GCCC Grid*

Borehole Diameter: Bearing: Co-ords: **Borehole Information** Field Material Description 2 3 4 5 8 10 INFERRED STRENGTH Is(50) MPa WEATHERING STRUCTURE AND ADDITIONAL OBSERVATIONS RL(m) AHD SOIL/ROCK MATERIAL FIELD DESCRIPTION GRAPHIC WATER RQD 21 22 -18 Parsons Brinckenhoff Australia Pty Ltd. Version 5.1 ENGINEERING CORED BOREHOLE LOG GCRT_BOREHOLES.GPJ GEOTECH_24-2-2-2006.GDT 25/5/10 19 24 -20 25 COMMENCE CORING AT 26 m META-SILTSTONE: thinly laminated: 26 m - 26.67 m: Non intact core dark grey with pale green-grey. HW 26.67 m - 26.9 m: 4 x DB 100 12 26.9 m - 26.95 m: J, 45°, P, R, clean 27.0 m - 27.15 m: Non intact core 27 -23 27.27 m - 27.5 m: Non intact core END OF BOREHOLE AT 27.50 m Limit of Investigation 28 -24 * Horizontal and vertical data determined by Ground Survey 29 -25 This borehole log should be read in conjunction with Parsons Brinckerhoff's accompanying standard notes.

REPORT OF PHOTOGRAPHS



Borehole number:

RTBH23

of

Department of Client:

Transport and Main Roads

Coordinates:

E 85734.46 N 59627.54

Depth range:

26.0 m - 27.5 m

Project:

Gold Coast Rapid Transit

Surface RL:

4.02 m AHD

Inclined length:

Sheet

Borehole location: Project number:

Ch: 30536.5 2161016A

Hole angle: Bearing:

90°

Drill model/mounting: Borehole diameter:

Hydrapower Scout 75 mm

