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BOREHOLE ENGINEERING LOG

BOREHOLE NO.

BH80

SHEET 1 OF 3

Client: QUEENSLAND DEPARTMENT OF MAIN ROADS
Project: TUGUN BYPASS
Borehole Location: CENTRE PIER - NORTH
Project Number: 2134070A-1352

Date Commenced: 12/6/03
Date Completed: 12/6/03
Recorded By: JM
Log Checked By: *JB*

Drill Model/Mounting: H/POWER SCOUT
Borehole Diameter: 100 mm

Hole Angle: 90° Surface RL: 2.9 m
Bearing: — Co-ords: E 47556 N 90202

Borehole Information						Field Material Description						
1	2	3	4	5	6	7	8	9	10	11	12	13
METHOD	SUPPORT	WATER	RL(m)	DEPTH(m)	FIELD TEST	SAMPLE	GRAPHIC LOG	USC SYMBOL	SOIL/ROCK MATERIAL FIELD DESCRIPTION	MOISTURE	RELATIVE DENSITY / CONSISTENCY	STRUCTURE AND ADDITIONAL OBSERVATIONS
WB												
				0.70					SANDY CLAY: medium plasticity, grey and brown.			SLOPEWASH?
				2					CLAYEY SAND/SILTY SAND BANDS: medium grained, grey with brown mottling, well graded.			ESTUARINE SEDIMENTS
				1								
				2								
				3								
				4								
				5								
				6								
				7								
				8								
				9								
				10								
				11								
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				100								

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

BOREHOLE ENGINEERING LOG

BOREHOLE NO.

BH80

SHEET 2 OF 3

Client: QUEENSLAND DEPARTMENT OF MAIN ROADS
 Project: TUGUN BYPASS
 Borehole Location: CENTRE PIER - NORTH
 Project Number: 2134070A-1352

Date Commenced: 12/6/03
 Date Completed: 12/6/03
 Recorded By: JM
 Log Checked By: *BM*

Drill Model/Mounting: H/POWER SCOUT
 Borehole Diameter: 100 mm

Hole Angle: 90° Surface RL: 2.9 m
 Bearing: — Co-ords: E 47556 N 90202

Borehole Information						Field Material Description						
1	2	3	4	5	6	7	8	9	10	11	12	13
METHOD	SUPPORT	WATER	RL(m)	DEPTH(m)	FIELD TEST	SAMPLE	GRAPHIC LOG	USC SYMBOL	SOIL/ROCK MATERIAL FIELD DESCRIPTION	MOISTURE	RELATIVE DENSITY / CONSISTENCY	STRUCTURE AND ADDITIONAL OBSERVATIONS
WB												
			4.70						CLAYEY SAND: fine grained, dark grey, well graded with fine gravel size rock fragments.			ESTUARINE SEDIMENTS
			4.70	4.2, 2	N=4	SPT			SILTY CLAY: medium plasticity, grey.			RESIDUAL SOIL
			9									
			-7									
			10									
			10.30						SANDY CLAY: medium plasticity, pale grey with brown mottling.			
			-8									
			11									
			-9	5, 6, 12	N=18	SPT			ARGILLITE: grey and brown, extremely weathered, extremely low strength, friable.			WEATHERED ROCK
			11.85									
			-10						... extremely weathered, extremely low strength and highly weathered, very low strength bands.			30 blows/50mm
			13						REFER TO CORED BOREHOLE LOG			
			-11									
			14									
			-12									
			15									
			-13									

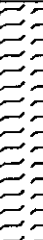
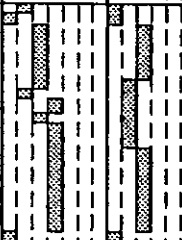
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Project: TUGUN BYPASS
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Log Checked By: *[Signature]*

Drill Model/Mounting: H/POWER SCOUT
Borehole Diameter: 100 mm

Hole Angle:	90°	Surface RL:	2.9 m
Bearing:	—	Co-ords:	E 47556 N 90202

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)	DEPTH(m)	GRAPHIC LOG	SOIL/ROCK MATERIAL FIELD DESCRIPTION	WEATHERING	INFERRED STRENGTH I _h (50) MPa	AVERAGE DEFECT SPACING mm	STRUCTURE AND ADDITIONAL OBSERVATIONS
									EL 0.03 VL 0.1 ML 0.3 MH 1 VH 3 EH 10	30 100 300 1000 3000		
					-6	9						
					-7	10						
					-8	11						
					-9	12						
					-10	13		COMMENCE CORING AT 13.1 m				
NMLC			95	14	-11	14		INTERBEDDED META-GREYWACKE and ARGILLITE: mainly moderately weathered, mainly low strength, with extremely weathered, extremely low strength bands at 13.15-13.21m and 14.35-14.40m, laminated to very thinly bedded, bedding dips between 45-70°, highly fractured.	MW			Joints typically irregular, iron stained
					-12	15		CORE LOSS END OF BOREHOLE AT 14.47 m				** Approximate Northing and Easting figures
					-13							

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