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BH33

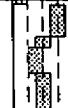
SHEET 2 OF 3

Client: QUEENSLAND MAIN ROADS
Project: TUGUN BYPASS GEOTECHNICAL INVESTIGATION
Borehole Location: Hidden Valley Bridges; Abutment A LHS
Project Number: 2134070C

Date Commenced: 17/6/05
Date Completed: 17/6/05
Recorded By: AO
Log Checked By: *DAW*

Drill Model/Mounting: **EAZE-CAT TRACKED RIG**
Borehole Diameter: **80 mm**

Hole Angle: 90° Surface RL: 22.7 m AHD
Bearing: --- Co-ords: E 48012.4 N 89295.1 PMG

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
									EL 0-3 VL 0-1 L 0-3 H 1-3 VH 1-10 EH	10 30 100 300 1000 3000		
						22						
						1						
						21						
						2						
						20						
						3						
						19						
						4						
						18						
						5						
						17						
						6						
						16						
						7						
NMLC	Nil		100	47		15		COMMENCE CORING AT 7.2 m GREYWACKE: fine to coarse grained, pale grey, with orange-brown staining throughout the rock mass, quartz veining up to 4mm thick throughout. CORE LOSS.	HW-MW			7.44m: 40° J, planar.
			76	17		14.79		GREYWACKE: fine to coarse grained, pale grey, with orange-brown staining throughout the rock mass, quartz veining up to 4mm thick throughout. CORE LOSS.	MW			7.74, 7.79m: 2 x 20° J, planar, red iron staining.
						14.19		GREYWACKE: fine to coarse grained, pale grey, with orange-brown staining throughout the rock mass, quartz veining up to 4mm thick throughout. CORE LOSS.	MW			7.84m: 40° J, planar.
						14.07		GREYWACKE: fine to coarse grained, pale grey, with orange-brown staining throughout the rock mass, quartz veining up to 4mm thick throughout. CORE LOSS.	MW			7.84-7.99m: 80° J, planar.
			49	0		13.72		ARGILLITE: very fine grained, pale grey with dark grey bands and some orange-brown and red iron staining. CORE LOSS.	XW			8.24m: 40° to 70° J, stepped, smooth.
						13.27		CORE LOSS.	MW			8.38m: 40° J, planar, smooth, Fe-stained.
						13			MW			

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



CORED BOREHOLE ENGINEERING LOG

BOREHOLE NO.

BH33

SHEET 3 OF 3

Client: QUEENSLAND MAIN ROADS
Project: TUGUN BYPASS GEOTECHNICAL INVESTIGATION
Borehole Location: Hidden Valley Bridges; Abutment A LHS
Project Number: 2134070C

Date Commenced: 17/6/05
Date Completed: 17/6/05
Recorded By: AO
Log Checked By: *DAW*

Drill Model/Mounting: EAZE-CAT TRACKED RIG Hole Angle: 90° Surface RL: 22.7 m AHD
Borehole Diameter: 80 mm Bearing: --- Co-ords: E 48012.4 N 89295.1 PMG

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 (q ₅₀) MPa	AVERAGE DEFECT SPACING mm	STRUCTURE AND ADDITIONAL OBSERVATIONS
NM/C			76	15			GREYWACKE: fine to medium grained, pale grey, mostly stained orange-brown, a few argillite bands throughout. (continued)	MW	0.03 0.1 0.3 1 3 10	20 50 100 300 1000 3000	10.1. 10.15m: 2 x 50° J, planar, smooth, Fe-stained. 10.3 to 10.42m: Broken zone. 10.5, 10.55m: 2 x 40° J, planar. 10.63m: 30° B, planar. 10.94m: 30° J, planar, smooth, Fe-st. 11.0m: 50° J, planar, smooth, Fe-stained. 11.15m: 60° J, irregular, rough. 11.25m: 50° J, irregular, rough, Fe-st. 11.46m: 60° B, closed, planar. 11.5m: 70° J, planar, smooth, Fe-stained. 11.52-11.58m: 3 x 35° B, planar, smooth. 11.58-11.82m: Sub-vertical J, undulating, rough. 11.82-12.2m: Highly fractured zone due to numerous steep dipping planar J. 12.0, 12.1m: 2 x 50° J, planar, smooth. 12.03-12.22m: 80° J, planar, rough. 12.3m: 45° J, planar, smooth, Fe-stained. 12.37m: 35° J, planar, rough.
			100	36	12	11	... pale grey argillite bands between 10.25-10.30m and 10.42-10.64m.				
			100	19	11	12	... pale grey and dark grey argillite band between 11.17-11.50m.				
					10	13	... pale grey argillite band between 12.20-12.30m.	SW			
							... dark grey greywacke, some iron staining along defects.				
							END OF BOREHOLE AT 12.50 m				
					9	14					
					8	15					
					7	16					
					6	17					
					5	18					
					4	19					
					3						

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

Project: Tugun Bypass Geotechnical Investigation
Borehole: BH33
Start Depth: 7.20m
Finish Depth: 12.50m

