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Client: QUEENSLAND MAIN ROADS
Project: TUGUN BYPASS GEOTECHNICAL INVESTIGATION
Borehole Location: Cut; Chainage 2300 (MC11); on centreline;
Project Number: 2134070C

Date Commenced: 23/5/05
Date Completed: 23/5/05
Recorded By: SAM
Log Checked By: *pa*

Drill Model/Mounting: LEWIS 350 TRACKED RIG

Hole Angle: 90°

Surface RL: 27.3 m AHD

Borehole Diameter: 100 mm

Bearing: ---

Co-ords: E 48336.3 N 89056.4 PMG

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	USC SYMBOL	SOIL/ROCK MATERIAL FIELD DESCRIPTION	MOISTURE	RELATIVE DENSITY / CONSISTENCY	HAND PENETROMETER (kPa)	STRUCTURE AND ADDITIONAL OBSERVATIONS
VS	FB	VL	ST	MD	VST	D	VS	FB	VL	ST	MD	VST	D
TC	Ni	W		0.20				SM	Silty SAND: fine grained, low to medium plasticity, brown, plant roots and organic matter.	D			TOPSOIL
				27					Interbedded GREYWACKE and ARGILLITE: fine to coarse grained, pale yellow brown, extremely to highly weathered with the consistency of low to medium plasticity sandy clay with some fine gravel, extremely low to very low strength.				WEATHERED ROCK
				26					... becoming lighter in colour.				LL=30%, PI=9%. WPI=711, Emerson No.=5. % passing 0.425mm=79%. % passing 0.075mm=49%. SPT hammer bouncing at 1.64m.
					SPT 24/140	SPT							
				25					... becoming orange/white.				
									...extremely to highly weathered with the consistency of medium plasticity sandy clayey silt. No greywacke interbeds.				LL=38%, PI=10%. WPI=798, Emerson No.=6. % passing 0.425mm=80%. % passing 0.075mm=71%. SPT hammer bouncing at 3.085m.
				24									
					SPT 19/85	SPT							
				23					...extremely to highly weathered with the consistency of low plasticity sandy clay with some fine quartz gravel.				LL=26%, PI=7%. SPT hammer bouncing at 4.59m.
					SPT 20/90	SPT							

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



BOREHOLE ENGINEERING LOG

BOREHOLE NO.

BH63

SHEET 2 OF 2

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Borehole Location: Cut; Chainage 2300 (MC11); on centreline;
Project Number: 2134070C

Date Commenced: 23/5/05
Date Completed: 23/5/05
Recorded By: SAM
Log Checked By: *QW*

Drill Model/Mounting: LEWIS 350 TRACKED RIG Hole Angle: 90° Surface RL: 27.3 m AHD
Borehole Diameter: 100 mm Bearing: --- Co-ords: E 48336.3 N 89056.4 PMG

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	USC SYMBOL	SOIL/ROCK MATERIAL FIELD DESCRIPTION	MOISTURE VS FB VL L MD ST D VST H	RELATIVE DENSITY / CONSISTENCY	STRUCTURE AND ADDITIONAL OBSERVATIONS
WB			-22						Interbedded GREYWACKE and ARGILLITE: fine to coarse grained, pale yellow brown. extremely to highly weathered with the consistency of low to medium plasticity sandy clay with some fine gravel, extremely low to very low strength. (continued)			
				6	SPT 20/50	SPT						SPT hammer bouncing at 6.05m. No sample recovery
			-21									
				7	SPT 30/145	SPT			...extremely to highly weathered with the consistency of high plasticity silty clay with some fine grained sand. END OF BOREHOLE AT 7.15 m			LL=43%, PI=14% SPT hammer bouncing at 7.1m.
			-20									
				8								
			-19									
				9								
			-18									

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