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Client: QUEENSLAND MAIN ROADS
Project: TUGUN BYPASS GEOTECHNICAL INVESTIGATION
Borehole Location: Hidden Valley Bridges; Pier 1;
Project Number: 2134070C

Date Commenced: 16/6/05
Date Completed: 16/6/05
Recorded By: AO
Log Checked By: *DAW*

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

Hole Angle:	90°	Surface RL:	17.4 m AHD
Bearing:	---	Co-ords:	E 48026 N 89263.6 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 SL LL ST VD			
TC	C							CH	Silty CLAY: high plasticity, brown, trace of fine grained sand, organic matter and highly weathered greywacke gravel fragments.	M			RESIDUAL SOIL
				17									
				1									
				16	SPT 4,10,11 N=21	SPT			GREYWACKE: fine to coarse grained, pale grey and orange brown staining, extremely weathered greywacke with the consistency of medium plasticity sandy clay, extremely low to very low strength, occasional highly weathered greywacke gravel sized fragments.				WEATHERED ROCK
				2									
				15									
				3	SPT 6,18,30 /105mm	SPT			... 2.8-3.02m: Pale grey argillite band with red staining				Visible thin undulating foliations and 70° bedding. Planar 70° defect with iron crust.
				14									
				4						W			
				13	SPT 8,22,27 N=49	SPT			Interbedded ARGILLITE and GREYWACKE: fine to coarse grained, pale grey with dark grey laminae, extremely weathered with the consistency medium plasticity silty clay, some fine to coarse grained sand, occasional fine to medium gravel sized highly weathered argillite and greywacke fragments, extremely low to very low strength.				

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

Engineering Borehole Log Version 5.1 ENGINEERING BOREHOLE LOG LOGS 250505.GPJ GEOTECH.GDT 15/8/05



BOREHOLE ENGINEERING LOG

BOREHOLE NO.
BH59
SHEET 2 OF 4

Client: QUEENSLAND MAIN ROADS

Project: TUGUN BYPASS GEOTECHNICAL INVESTIGATION

Borehole Location: Hidden Valley Bridges; Pier 1;

Project Number: 2134070C

Date Commenced: 16/6/05

Date Completed: 16/6/05

Recorded By: AO

Log Checked By: *DAW*

Drill Model/Mounting: EAZE-CAT TRACKED RIG

Hole Angle: 90°

Surface RL: 17.4 m AHD

Borehole Diameter: 80 mm

Bearing: ---

Co-ords: E 48026 N 89263.6 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	SL	ST	MD	SST	OD	LI	SD				
TC									Interbedded ARGILLITE and GREYWACKE: fine to coarse grained, pale grey with dark grey laminae, extremely weathered with the consistency medium plasticity silty clay, some fine to coarse grained sand, occasional fine to medium gravel sized highly weathered argillite and greywacke fragments, extremely low to very low strength. (continued)	W			
			12						...Very low strength.				
				6	SPT 9,3,7 N=10	SPT			...Extremely low strength.				
									...Very low strength.				
			11										
			7										
					SPT 10 / 30mm	GCY			REFER TO CORED BOREHOLE LOG				
			10										
				8									
				9									
				9									
				8									

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



CORED BOREHOLE ENGINEERING LOG

BOREHOLE NO.

BH59

SHEET 4 OF 4

Client:	QUEENSLAND MAIN ROADS	Date Commenced:	16/6/05
Project:	TUGUN BYPASS GEOTECHNICAL INVESTIGATION	Date Completed:	16/6/05
Borehole Location:	Hidden Valley Bridges; Pier 1;	Recorded By:	AO
Project Number:	2134070C	Log Checked By:	DAW

Drill Model/Mounting:	EAZE-CAT TRACKED RIG	Hole Angle:	90°	Surface RL:	17.4 m AHD
Borehole Diameter:	80 mm	Bearing:	---	Co-ords:	E 48026 N 89263.6 PMG

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) AHD	DEPTH(m)	GRAPHIC LOG	SOIL/ROCK MATERIAL FIELD DESCRIPTION	WEATHERING	INFERRED STRENGTH $I_p(50)$ MPa	AVERAGE DEFECT SPACING mm	STRUCTURE AND ADDITIONAL OBSERVATIONS
NMLC								ARGILLITE: very fine grained, dark grey, slightly weathered, thinly foliated. (continued)	SW			10.05, 10.13m: 2 x 55° B, planar, smooth, Fe-stained. 10.13-10.2m: highly fractured zone.
					7			END OF BOREHOLE AT 10.30 m				
						11						
					6							
						12						
					5							
						13						
					4							
						14						
					3							

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Project: **Tugun Bypass Geotechnical Investigation**
Borehole: **BH59**
Start Depth: 7.30m
Finish Depth: 10.30m

