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BOREHOLE ENGINEERING LOG

BOREHOLE NO.

BH39

SHEET 1 OF 4

Client: QUEENSLAND MAIN ROADS
Project: TUGUN BYPASS GEOTECHNICAL INVESTIGATION
Borehole Location: Airport Tunnel
Project Number: 2134070C

Date Commenced: 8/6/05
Date Completed: 9/6/05
Recorded By: SAM
Log Checked By: *DAW*

Drill Model/Mounting: HYDRAPOWER SCOUT 250 Hole Angle: 90° Surface RL: 1.0 m AHD
Borehole Diameter: 100 mm Bearing: --- Co-ords: E 50392.8 N 87023 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
TC	Nil			0.20				SM	Silty Clayey SAND: fine to medium grained, brown, organic matter.	M			TOPSOIL
				0					SAND: fine to medium grained, pale brown/gray.	W			ESTUARINE/ FLOODPLAIN/TIDAL DELTA DEPOSITS
WB				-1	2,5,6 N=11	SPT			... trace of coarse angular gravel.				
				-2	3,4,4 N=8	SPT							
				-3									
				-4	2,3,4 N=7	SPT							No SPT sample recovered.
				-5	2,2,3 N=5	SPT							
				-6									
				-7	0	SPT		CH	Sandy CLAY: medium to high plasticity, fine to medium grained sand, grey/brown.				SPT sank under the weight of the hammer.
				-8	0	SPT		SP	SAND: fine to medium grained, grey/brown.				% passing 0.425mm=96% % passing 0.075mm=7.8% SPT sank under the weight of the hammer.

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



BOREHOLE ENGINEERING LOG

BOREHOLE NO.

BH39

SHEET 2 OF 4

Client: QUEENSLAND MAIN ROADS
Project: TUGUN BYPASS GEOTECHNICAL INVESTIGATION
Borehole Location: Airport Tunnel
Project Number: 2134070C

Date Commenced: 8/6/05
Date Completed: 9/6/05
Recorded By: SAM
Log Checked By: Dgm

Drill Model/Mounting: HYDRAPOWER SCOUT 250 Hole Angle: 90° Surface RL: 1.0 m AHD
Borehole Diameter: 100 mm Bearing: --- Co-ords: E 50392.8 N 87023 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	STRUCTURE AND ADDITIONAL OBSERVATIONS
VS	FB	VL	ST	MO	VST	D	H	PENETROMETER (kPa)				
WB								SP	SAND: fine to medium grained, grey/brown. (continued)	W		
				10	11	0	SPT					% passing 0.425mm=95% % passing 0.075mm=9% SPT sank under the weight of the hammer.
				11	12	2,3,6 N=9	SPT					SPT sank under the weight of the hammer.
				12	13							
				13	14	4,6,7 N=13	SPT					
				14	15	0	SPT	CH	Sandy CLAY: high plasticity, brown, fine to medium grained sand.			% passing 0.425mm=96% % passing 0.075mm=76% SPT sank under the weight of the hammer.
				15	16							SPT sank under the weight of the hammer.
				16	17	0	SPT					
				17	18	3,1,1 N=2	SPT					% passing 0.425mm=99% % passing 0.075mm=84%
				18	19							SPT sank under the weight of the hammer.
						0	SPT					

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BOREHOLE ENGINEERING LOG

BOREHOLE NO.

BH39

SHEET 3 OF 4

Client: QUEENSLAND MAIN ROADS

Project: TUGUN BYPASS GEOTECHNICAL INVESTIGATION

Borehole Location: Airport Tunnel

Project Number: 2134070C

Date Commenced: 8/6/05

Date Completed: 9/6/05

Recorded By: SAM

Log Checked By: *DAN*

Drill Model/Mounting: HYDRAPOWER SCOUT 250

Hole Angle: 90°

Surface RL: 1.0 m AHD

Borehole Diameter: 100 mm

Bearing: ---

Co-ords: E 50392.8 N 87023 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	STRUCTURE AND ADDITIONAL OBSERVATIONS
WB								CH	Sandy CLAY: high plasticity, brown, fine to medium grained sand. (continued)	VS FB VL LM ST VD	HAND PENETROMETER (kPa)	
			-20	21	0,3,2 N=5	SPT						
			-21	22								
					0,5,8 N=13	SPT						
			-22	23				SP	SAND: fine to medium grained, grey.			
			-23	24	7,6,4 N=10	SPT						
			-24	25								
					3,3,8 N=11	SPT						
			-25	26								
			-26	27	8,14,15 N=29	SPT						
			-27	28								
			-28	29	11,7,14 N=21	SPT		SP	Gravelly SAND: fine to coarse grained sand, grey, fine to medium grained subangular gravel, low plasticity fines.			RESIDUAL SOIL
			-29.70						ARGILLITE: fine to medium grained, extremely weathered.			WEATHERED ROCK

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



BOREHOLE ENGINEERING LOG

BOREHOLE NO.

BH39

SHEET 4 OF 4

Client: QUEENSLAND MAIN ROADS

Project: TUGUN BYPASS GEOTECHNICAL INVESTIGATION

Borehole Location: Airport Tunnel

Project Number: 2134070C

Date Commenced: 8/6/05

Date Completed: 9/6/05

Recorded By: SAM

Log Checked By: PAW

Drill Model/Mounting: HYDRAPOWER SCOUT 250

Hole Angle: 90°

Surface RL: 1.0 m AHD

Borehole Diameter: 100 mm

Bearing: ---

Co-ords: E 50392.8 N 87023 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 JL MD ST D H			
				12 120mm					END OF BOREHOLE AT 30.02 m				Hammer bouncing.
			-30	31									
			-31	32									
			-32	33									
			-33	34									
			-34	35									
			-35	36									
			-36	37									
			-37	38									
			-38	39									

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