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BOREHOLE ENGINEERING LOG

BOREHOLE NO.

BH04A

SHEET 1 OF 6

Client: **RCP on behalf of the Department of Public Works** Date Commenced: **14/12/06**
 Project: **TANK STREET BRIDGE** Date Completed: **16/12/06**
 Borehole Location: **Brisbane River** Recorded By: **WJB**
 Project Number: **2132311A** Log Checked By: *ARB*

Drill Model/Mounting: **Hydrapower Scout** Hole Angle: **-90°** Surface RL: **0.1 m**
 Borehole Diameter: **125 mm** Bearing: **---** Co-ords: **E 992.1 N 1192.3**

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	H	VD	VS	FB	VL	ST	MD	VST	D	H	VD	
WB	C			1				GM	Silty Sandy GRAVEL : fine grained, black and grey, coarse grained sand, low plasticity fines	W								ALLUVIAL / FILL HW casing installed to 4.2 m, casing cleaned out by WB Dredged shipping channel, storm water discharge, river bank erosion, Tidal water level, BH drilled on a barge in a river in approx 1.6 m of water
				2.70				GP	GRAVEL : fine grained, black and brown									
				3.00				GC	Clayey GRAVEL : fine grained, black grey, high plasticity fines									
	M			4		U50												medium sized gravel in U50, 100 mm of sample recovered
				5.20				CH	Silty CLAY: high plasticity, dark grey	MC>PL								ALLUVIAL
				6.40				SW	SAND: medium grained, with a trace of silt	W								
				7														
				8	SPT 4,7,9 N=16	SPT												
				9														
				9.80				SM	Clayey Sandy SILT: low plasticity, grey black,									

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

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BOREHOLE ENGINEERING LOG

BOREHOLE NO.

BH04A

SHEET 2 OF 6

Client: **RCP on behalf of the Department of Public Works** Date Commenced: **14/12/06**
 Project: **TANK STREET BRIDGE** Date Completed: **16/12/06**
 Borehole Location: **Brisbane River** Recorded By: **WJB**
 Project Number: **2132311A** Log Checked By: *RJB*

Drill Model/Mounting: **Hydrapower Scout** Hole Angle: **-90°** Surface RL: **0.1 m**
 Borehole Diameter: **125 mm** Bearing: **---** Co-ords: **E 992.1 N 1192.3**

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	V/L	ST	MD	VST	D	H	VD					
WB			10.00		SPT 6,6.8 N=14			CH	fine to medium grained sand Silty CLAY / Clayey SILT: high plasticity, dark grey	W			
			11.04					SP	SAND: medium grained, grey, with a trace of silt, with some high plasticity dark grey silty clay bands				
			12										
			13										
			14										
			15										
			16										
			17										
			18										
			19						... coarse grained sand				
									... possible gravel band				
													copper wire found in cuttings between 13.2 m and 16.2 m. (cavings?)

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BOREHOLE ENGINEERING LOG

BOREHOLE NO.

BH04A

SHEET 3 OF 6

Client: **RCP on behalf of the Department of Public Works** Date Commenced: **14/12/06**
 Project: **TANK STREET BRIDGE** Date Completed: **16/12/06**
 Borehole Location: **Brisbane River** Recorded By: **WJB**
 Project Number: **2132311A** Log Checked By: **ARB**

Drill Model/Mounting: **Hydrapower Scout** Hole Angle: **-90°** Surface RL: **0.1 m**
 Borehole Diameter: **125 mm** Bearing: **---** Co-ords: **E 992.1 N 1192.3**

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	SOIL/ROCK MATERIAL FIELD DESCRIPTION	MOISTURE	RELATIVE DENSITY / CONSISTENCY	HAND PENETROMETER (kPa)	STRUCTURE AND ADDITIONAL OBSERVATIONS
WB									VS FB VL SL ST H	MD VD		
				21			SP	SAND: medium grained, grey, with a trace of silt, with some high plasticity dark grey silty clay bands (continued)				
				22	SPT 13,14,15 N=29							
				23								
				24								
				24.40			GP	GRAVEL: fine grained, brown-white-red-grey, sub rounded in shape				increase in drilling resistance
				25								
				26								low drilling returns, mud tank being continually topped up, drilling mud diluted, rig shaking and jumping
				27								
				27.60			CL	Clayey SILT: low plasticity, pale brown, with coarse grained sand.				RESIDUAL CLAY ?
				28.00				PHYLLITE: fine grained, dark grey, extremely to highly weathered, extremely to very low strength.				WEATHERED ROCK
				29				REFER TO CORED BOREHOLE LOG				NW casing installed to 29.0m

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

Parsons Brinckerhoff Australia Pty Ltd. Version 5.1 ENGINEERING BOREHOLE LOG TANK STREET BRIDGE - FIELD LOGS.GPJ GEOTECH.GDT 4/1/07



CORED BOREHOLE ENGINEERING LOG

BOREHOLE NO.

BH04A

SHEET 4 OF 6

Client: **RCP on behalf of the Department of Public Works** Date Commenced: **14/12/06**
 Project: **TANK STREET BRIDGE** Date Completed: **16/12/06**
 Borehole Location: **Brisbane River** Recorded By: **WJB**
 Project Number: **2132311A** Log Checked By: **CRP**

Drill Model/Mounting: **Hydrapower Scout** Hole Angle: **-90°** Surface RL: **0.1 m**
 Borehole Diameter: **125 mm** Bearing: **---** Co-ords: **E 992.1 N 1192.3**

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 Is(50) MPa	AVERAGE DEFECT SPACING mm	STRUCTURE AND ADDITIONAL OBSERVATIONS
									0.03 0.1 0.3 1 3 10	30 100 300 1000 3000		
						21						
						22						
						23						
						24						
						25						
						26						
						27						
						28						
						29		COMMENCE CORING AT 29 m				
NMLC	M Nil		75	0		29.00		PHYLLITE: fine grained, dark grey with white quartz feldspathic veins and areas of crenulated cleavage.	MW			fragmented
						29.60		CORE LOSS				Core Loss
						29.80			MW			

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

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CORED BOREHOLE ENGINEERING LOG

BOREHOLE NO.

BH04A

SHEET 5 OF 6

Client: **RCP on behalf of the Department of Public Works** Date Commenced: **14/12/06**
 Project: **TANK STREET BRIDGE** Date Completed: **16/12/06**
 Borehole Location: **Brisbane River** Recorded By: **WJB**
 Project Number: **2132311A** Log Checked By: *ARB*

Drill Model/Mounting: **Hydrapower Scout** Hole Angle: **-90°** Surface RL: **0.1 m**
 Borehole Diameter: **125 mm** Bearing: **---** Co-ords: **E 992.1 N 1192.3**

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)	SOIL/ROCK MATERIAL FIELD DESCRIPTION	WEATHERING	INFERRED STRENGTH Is(50) MPa	AVERAGE DEFECT SPACING mm	STRUCTURE AND ADDITIONAL OBSERVATIONS
									0.03 0.1 0.3 1 3 7 10	10 30 100 300 1000 3000	
NMLC			50	0		30.20	PHYLLITE: fine grained, dark grey with white quartz feldspathic veins and areas of crenulated cleavage. (continued) CORE LOSS	MW			Core Loss
			100	77		30.60	PHYLLITE: fine grained, dark grey with white quartz feldspathic veins and areas of crenulated cleavage.	SW-FR			fragmented 30.84 m: J@50°, Fr-U, R
			100	0		31	... slightly brecciated zone, contact zone @ 70 degrees ... 31.9 to 32.4 sub vertical joint or shear-broken zone ... quartz / feldspathic veining				31.2 m - 31.32 m: fractured zone 31.73 m: J@70°, Ir, R
			100	11		32					Core Loss
			100			33					33.6 m - 33.8 m: J@90 33.8 m - 33.97 m: highly fractured zone
			100	36		34					34.9 m - 35 m: fractured zone 35.2 m: J@30°, P, R 35.3 m: J@30°, I, R 35.57 m: J@30°, I, R, clean 35.85 m - 36.6 m: 6xJ@70°, Ir, R
			100	74		35					36.7 m: J@45°, Ir, R, clean 36.95 m - 37.3 m: broken zone 37.15 m: J@80°, Ir, clean 37.35 m: J@70°, P, Ir, R, clean
			100	30		36					38 m - 38.32 m: highly fractured zone
			26			37					39.3 m to 41.3 m - slickensided sheared zone
						38	... 39.3 to 40.93 - black sheared zone				
						39					

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CORED BOREHOLE ENGINEERING LOG

BOREHOLE NO.

BH04A

SHEET 6 OF 6

Client: RCP on behalf of the Department of Public Works Date Commenced: 14/12/06
 Project: TANK STREET BRIDGE Date Completed: 16/12/06
 Borehole Location: Brisbane River Recorded By: WJB
 Project Number: 2132311A Log Checked By: *RDB*

Drill Model/Mounting: Hydrapower Scout Hole Angle: -90° Surface RL: 0.1 m
 Borehole Diameter: 125 mm Bearing: -- Co-ords: E 992.1 N 1192.3

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 Is(50) MPa	AVERAGE DEFECT SPACING mm	STRUCTURE AND ADDITIONAL OBSERVATIONS
NMLC			100	59		41		PHYLLITE: fine grained, dark grey with white quartz feldspathic veins and areas of crenulated cleavage. (continued)	SW-FR	0.03 0.1 0.3 1 3 10	30 100 300 1000 3000	39.3 m to 41.3 m - sheared zone 41.74 m: J@0°, Ir 42.24 m: J@45°, stepped, R, clean 42.8 m: J@15°, I, R, clean 43.45 m: J@10°, U, S, clean
			100	100		42						
						43						
						44		END OF BOREHOLE AT 43.60 m				
						45						
						46						
						47						
						48						
						49						

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Tank Street Bridge **Borehole: BH 04A**
Depth: From 29 m – 33.6 m
Project No: 2132311A
Date: 15.12.06
Box – 1 of 3



Tank Street Bridge **Borehole: BH 04A**
Depth: From 33.6m – 38.6m
Project No: 2132311A
Date: 16.12.06
Box – 2 of 3



Tank Street Bridge **Borehole: BH 04A**
Depth: From 38.6m – 43.6m
Project No: 2132311A
Date: 16.12.06
Box – 3 of 3