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# BOREHOLE ENGINEERING LOG

BOREHOLE NO.

**BH03**

SHEET 1 OF 4

Client: RCP on behalf of the Department of Public Works  
Project: TANK STREET BRIDGE  
Borehole Location: Brisbane River  
Project Number: 2132311A

Date Commenced: 17/12/06  
Date Completed: 18/12/06  
Recorded By: WJB  
Log Checked By: *WJB*

Drill Model/Mounting: Hydrapower Scout  
Borehole Diameter: 125 mm

Hole Angle: -90°  
Bearing: ---  
Surface RL: -13.65 m  
Co-ords: E 1025.3 N 1201.4

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	MD	ST	D	H	VD	VS	VS	VS	VS	
WB	C							SM	Sandy SILT: high plasticity, dark grey - black, fine grained sand	W		ALLUVIAL
				1.00				SW	SAND: medium grained, grey, with a trace of silt, with silty clay bands and fine grained gravel bands			HW casing installed to 6.4 m, casing cleaned out by WB
				2								Dredged shipping channel in river bed.
				3					... possible 0.3 m gravel layer			Tidal water level, BH drilled in river on a barge under approximately 13.0 m of water.
				4								Casing installed through soft material, a 0.3 m boney material layer was encountered at 3.0 m. Possible gravel layer.
				5								
				6								
				7	SPT 7,9,10 N=19	SPT						
				8								
				9								

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



# BOREHOLE ENGINEERING LOG

BOREHOLE NO.

**BH03**

SHEET 2 OF 4

Client: RCP on behalf of the Department of Public Works Date Commenced: 17/12/06  
Project: TANK STREET BRIDGE Date Completed: 18/12/06  
Borehole Location: Brisbane River Recorded By: WJB  
Project Number: 2132311A Log Checked By: *WJB*

Drill Model/Mounting: Hydrapower Scout Hole Angle: -90° Surface RL: -13.65 m  
Borehole Diameter: 125 mm Bearing: --- Co-ords: E 1025.3 N 1201.4

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
WB													

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



# CORED BOREHOLE ENGINEERING LOG

BOREHOLE NO.

**BH03**

SHEET 3 OF 4

Client: RCP on behalf of the Department of Public Works  
Project: TANK STREET BRIDGE  
Borehole Location: Brisbane River  
Project Number: 2132311A

Date Commenced: 17/12/06  
Date Completed: 18/12/06  
Recorded By: WJB  
Log Checked By: *aub*

Drill Model/Mounting: Hydrapower Scout  
Borehole Diameter: 125 mm

Hole Angle: -90°  
Bearing: ---  
Surface RL: -13.65 m  
Co-ords: E 1025.3 N 1201.4

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			
						11						
						12						
						13		COMMENCE CORING AT 12.9 m				
NMLC	M					13		PHYLLITE: fine grained, dark grey with white quartz feldspathic veining and areas of crenulated cleavage.	SW-FR			12.97 m: J@5°, Ir, R, stained grey 13.04 m: J@0°, Ir, R, stained grey 13.07 m: J@40°, Ir, R, clay film 13.27 m: J@5°, R, clean 13.46 m: J@0°, Ir, R, clean 13.56 m: J@0°, Ir, R, clean 13.71 m: J@10°, Ir, R, clean 13.77 m: J@0°, Ir, R, clean 13.8 m: J@25°, Ir, R, clean 13.85 m: J@10°, Ir, R, clean 13.99 m: J@10°, Ir, R, clean 14.32 m: J@10°, Ir, R, clean 14.55 m: J@60°, P, R, clean 14.68 m: J@50°, P, R, clean 14.76 m: J@10°, Ir, R, clean 14.92 m: J@5°, P, R, clean 15.2 m: J@65°, P, Sm, dark staining 15.24 m: J@0°, Ir, R, clean 15.57 m: J@70°, P,Sm, clean 15.72 m: J@30°, P, R, clean 16.09 m: J@20°, Ir, R, clean 17.01 m: J@50°, St, R, clean 17.33 m: J@70°, St, R 17.63 m: J@50°, P, S 17.75 m: J@30°, P, R 17.9 m - 18.18 m: fractured zone, J@0°-15°, Ir, R 18.43 m: J@10°, Ir 18.65 m: J@70°, P-Ir, R, highly fractured 18.77 m - 18.95 m: DB 19.1 m: J@60°, P-Ir, R, clean 19.23 m - 19.65 m: fractured zone 19.7 m - 19.74 m: J@45°, P, quartz 19.87 m: J@20°, St, R, black staining
			85	100		14		... 13.7 to 13.85 m Arenite Band				
						15		... 14.75 to 14.8 Quartz veining				
						16		... 15.5 to 15.56 quartz veining, dip at 55 degrees				
			100	90		17						
						18		... 18.15 to 18.2 - broken zone				
						19		... 19.35 to 19.65 - broken zone				

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



# CORED BOREHOLE ENGINEERING LOG

BOREHOLE NO.

**BH03**

SHEET 4 OF 4

Client: RCP on behalf of the Department of Public Works  
Project: TANK STREET BRIDGE  
Borehole Location: Brisbane River  
Project Number: 2132311A

Date Commenced: 17/12/06  
Date Completed: 18/12/06  
Recorded By: WJB  
Log Checked By: *QJB*

Drill Model/Mounting: Hydrapower Scout  
Borehole Diameter: 125 mm

Hole Angle: -90°  
Bearing: ---

Surface RL: -13.65 m  
Co-ords: E 1025.3 N 1201.4

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
NM/LC			100	52		21		PHYLLITE: fine grained, dark grey with white quartz feldspathic veining and areas of crenulated cleavage. (continued)	FR	0.03 0.1 0.3 1 3 10	10 30 100 300 1000 3000	19.9 m - 20.3 m: J@30°, Ir, quartz infill
						22						20.9 m - 21.14 m: fractured zone 20.95 m - 21.14 m: J@90°, U, Ir, R, clean 21.25 m: J@10°, Ir 21.5 m: J@10°, Ir, R 21.67 m: J@50°, P, R 21.82 m: J@40°, P-Ir, R 21.9 m - 22.2 m: fragmented zone, J@30°, Ir, R, clean
			100	87		23						22.51 m: J@0°, P, R, clean 22.55 m - 22.9 m: J@90°, U, R, clean
						24						23.2 m - 25.5 m: J@90°, U, R, clean 23.32 m: J@15°, P, R, clean
						25		... 24.65 to 25.73 quartz veining, chloritic zones	SW			23.73 m: J@0°, Ir, R, clean 23.73 m - 24 m: DB 24.14 m: J@80°, Ir, R, clean 24.22 m: J@40°, P, S, clean 24.47 m: J@70°, 24.51 m: J@10°, P, R, clean 24.7 m: J@10°, P, R 24.97 m: J@40°, P-Ir, R, clean
	Nil		100	70		26			FR			25.26 m: J@5°, Ir, R, clean 25.4 m: J@20° 25.55 m: J@70°, U, R 25.73 m: J@30°, Ir, R, clean 25.85 m: J@20°, I, R, clean
						27		... 27.2 to 27.84 Arenite Band				26.24 m: J@40°, Ir - P 26.53 m: J@5°, Ir-P 26.68 m: J@10°, P
						28		END OF BOREHOLE AT 27.84 m				27.15 m - 27.84 m: fractured zone
						29						

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



**Tank Street Bridge** **Borehole: BH 03**  
**Depth: From 12.9 m – 17.9 m**  
**Project No: 2132311A**  
**Date: 17.12.06**  
**Box – 1 of 3**



**Tank Street Bridge** **Borehole: BH 03**  
**Depth: From 17.9 m – 22.9 m**  
**Project No: 2132311A**  
**Date: 17.12.06**  
**Box – 2 of 3**



**Tank Street Bridge** **Borehole: BH 03**  
**Depth: From 22.9 m – 27.84 m**  
**Project No: 2132311A**  
**Date: 17.12.06**  
**Box – 3 of 3**