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BOREHOLE ENGINEERING LOG

BOREHOLE NO.

BH02B

SHEET 1 OF 6

Client: RCP on behalf of the Department of Public Works Date Commenced: 22/11/06
 Project: TANK STREET BRIDGE Date Completed: 24/11/06
 Borehole Location: Kurilpa Park Recorded By: WJB
 Project Number: 2132311A Log Checked By: *[Signature]*

Drill Model/Mounting: Hydrapower Scout Hole Angle: -90° Surface RL: 4.4 m AHD
 Borehole Diameter: 125 mm Bearing: --- Co-ords: E 947 N 1172.4

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	GRAPHIC LOG	USC SYMBOL	SOIL/ROCK MATERIAL FIELD DESCRIPTION	MOISTURE	RELATIVE DENSITY / CONSISTENCY	HAND PENETROMETER (kPa)	STRUCTURE AND ADDITIONAL OBSERVATIONS
									VS	FB		
									S	VL		
									F	L		
									ST	MD		
									VST	D		
									H	VD		
AD								Refer to BH02 log				
				1								
WB				2								
				3								
				4								
				5								
				6								
				7								
				8								
				9								

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



BOREHOLE ENGINEERING LOG

BOREHOLE NO.

BH02B

SHEET 2 OF 6

Client: **RCP on behalf of the Department of Public Works** Date Commenced: **22/11/06**
 Project: **TANK STREET BRIDGE** Date Completed: **24/11/06**
 Borehole Location: **Kurilpa Park** Recorded By: **WJB**
 Project Number: **2132311A** Log Checked By: *AWM*

Drill Model/Mounting: **Hydrapower Scout** Hole Angle: **-90°** Surface RL: **4.4 m AHD**
 Borehole Diameter: **125 mm** Bearing: **--** Co-ords: **E 947 N 1172.4**

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
										VS FB VL S L ST MD VST D H VD			
WB				11					Refer to BH02 log (continued)				
				12									
				13									
				14									
				15									
				16									
				17									
				18									
				19									

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



BOREHOLE ENGINEERING LOG

BOREHOLE NO.

BH02B

SHEET 3 OF 6

Client: **RCP on behalf of the Department of Public Works** Date Commenced: **22/11/06**
 Project: **TANK STREET BRIDGE** Date Completed: **24/11/06**
 Borehole Location: **Kurilpa Park** Recorded By: **WJB**
 Project Number: **2132311A** Log Checked By: *[Signature]*

Drill Model/Mounting: **Hydrapower Scout** Hole Angle: **-90°** Surface RL: **4.4 m AHD**
 Borehole Diameter: **125 mm** Bearing: **---** Co-ords: **E 947 N 1172.4**

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	GRAPHIC LOG	USC SYMBOL	SOIL/ROCK MATERIAL FIELD DESCRIPTION	MOISTURE	RELATIVE DENSITY / CONSISTENCY	HAND PENETROMETER (kPa)	STRUCTURE AND ADDITIONAL OBSERVATIONS	
									VS FB VL SL L ST MD YST D H VD				
WB				21				Refer to BH02 log (continued)					
				22									
				23									
				24									
				25									
				26									
				27									
				28									
				28.70	SPT 24,23,22 N=45				... gravel, brown.				
				29									

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



BOREHOLE ENGINEERING LOG

BOREHOLE NO.

BH02B

SHEET 4 OF 6

Client: **RCP on behalf of the Department of Public Works** Date Commenced: **22/11/06**
 Project: **TANK STREET BRIDGE** Date Completed: **24/11/06**
 Borehole Location: **Kurilpa Park** Recorded By: **WJB**
 Project Number: **2132311A** Log Checked By: *[Signature]*

Drill Model/Mounting: **Hydrapower Scout** Hole Angle: **-90°** Surface RL: **4.4 m AHD**
 Borehole Diameter: **125 mm** Bearing: **--** Co-ords: **E 947 N 1172.4**

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
										VS FB SL LL PL SH MH VH	Uc Lc Ic Mc Dc Hc		
WB				31					Refer to BH02 log (continued)				30.5 m: losing drilling fluid
				32									
				33									
				34					REFER TO CORED BOREHOLE LOG				
				35									
				36									
				37									
				38									
				39									

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



CORED BOREHOLE ENGINEERING LOG

BOREHOLE NO.

BH02B

SHEET 5 OF 6

Client: **RCP on behalf of the Department of Public Works**
 Project: **TANK STREET BRIDGE**
 Borehole Location: **Kurilpa Park**
 Project Number: **2132311A**

Date Commenced: **22/11/06**
 Date Completed: **24/11/06**
 Recorded By: **WJB**
 Log Checked By: *[Signature]*

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

Hole Angle: **-90°**
 Bearing: **---**

Surface RL: **4.4 m AHD**
 Co-ords: **E 947 N 1172.4**

Borehole Information						Field Material Description						
1	2	3	4	5	6	7	8	9	10	11	12	
METHOD	SUPPORT	WATER	CORE RECOVERY	RGD	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			
									EL VL L M H VH EH		30 100 300 1000 3000	
						31						
						32						
						33						
						34		COMMENCE CORING AT 34.1 m				
			65	0		34.75		PHYLITE: fine grained, dark and pale grey, foliation @ 25°-60°, quartz veins <1 mm thick, minor staining on fragments.	SW			highly fractured and fragmented multiple joints, IR - P, 0°-45°, R
						35		CORE LOSS				Gravel fragments caught in between inner and outer core barrel causing core to be ground away over whole run.
			0	0		36						
						36.70		PHYLITE: fine grained, dark grey, foliations 0°-20°, well developed.	FR			36.7 m - 36.97 m: NON INTACT CORE
						37.087		CORE LOSS				
			64	0		37.45		PHYLITE: fine grained, dark grey, foliations 0°-20°, well developed foliations 45°.	FR			37.5 m - 37.7 m: highly fractured
						37.65		... becoming pale grey.				37.7 m - 38.25 m: 8 x J, Ir-P @ 0°-30°, R, Clean
						38						38.25 m - 38.35 m: NON INTACT CORE
			100	81		39						38.5 m - 39 m: 4 x J @ 10°, 30°, 50°, P-U, R, Clean
												39.2 m - 39.8 m: 6 x J @ 10°, 20° to 40°, P, ST, Ir, R, Clean

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.

BH02B

SHEET 6 OF 6

Client: **RCP on behalf of the Department of Public Works** Date Commenced: **22/11/06**
 Project: **TANK STREET BRIDGE** Date Completed: **24/11/06**
 Borehole Location: **Kurilpa Park** Recorded By: **WJB**
 Project Number: **2132311A** Log Checked By: *[Signature]*

Drill Model/Mounting: **Hydrapower Scout** Hole Angle: **-90°** Surface RL: **4.4 m AHD**
 Borehole Diameter: **125 mm** Bearing: **---** Co-ords: **E 947 N 1172.4**

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 (s(50) MPa)	AVERAGE DEFECT SPACING (mm)	STRUCTURE AND ADDITIONAL OBSERVATIONS
									0.03 0.1 0.3 1 3 10 30 100 300 1000 3000			
			100	81	40.00			PHYLLITE: fine grained, pale grey-white, siliceous well foliated 0°-20°, commonly crenulated, quartz veins common. Bedding plane at 20°.	FR			40 m - 40.1 m: fractured zone 40.17 m: J @ 40°, P, R, Clean 40.3 m: J @ 30°, P, R, infilled with sandy clay 5 - 10 mm 40.52 m: J @ 30°, Ir, R, Clean
					41.04			... becoming dark-grey with pale grey inter layers, commonly crenulated.				40.82 m: J @ 20°, P, R, Clean 41 m: DB 41.13 m: DB 41.32 m: DB 41.42 m: DB 41.54 m: DB 41.65 m: J @ 50°, P, R, Clean 41.77 m - 42.22 m: 5 x J @ 15°, 20°, 40°, P, Ir, R, Clean
			100	66	42			... becoming pale grey. .. quartz viens 30 mm thick.				42.38 m: J @ 40°, Ir, R, clay coated 42.49 m - 42.65 m: 3 x J @ 30°, 70°, P, S to R, Clean 42.85 m: J @ 70°, P, R, Pyrite coating
					42.32							43.25 m: J @ 70°, P, R, Clean 43.3 m: J @ 30°, Ir, R, Quartz coated 43.53 m: DB 43.72 m: DB 43.87 m: DB
			100	70	43			... quartz viens				44.05 m: J @ 60°, P, R, Quartz coated 44.31 m: J @ 30°, P, R, Clean 44.4 m: J @ 70°, P, R, Clean 44.5 m: DB 44.72 m: J @ 70°, P, R, sity clay coated 44.8 m: J @ 50°, P, R, Clean 44.86 m: DB 44.9 m: DB
					44.31			... becoming dark grey. Bedding plane @ 50°.				45 m - 45.37 m: fractured to highly fractured zone 45 m: DB 45.43 m - 45.5 m: fractured zone 45.6 m - 45.67 m: factured zone with quartz
			100	70	45			... 45.5 - 45.8 quartz vein. Bedding plane @ 40°. ... becoming pale grey.				45.72 m: J @ 30°, P, R, Clean 45.84 m: J @ 40°, P, R, pyrite coated 46.1 m: J @ 25°, P, R, Clean 46.22 m: J @ 20°, P, R clay coated 46.36 m: J @ 5°, Ir, R, Clean 46.43 m - 46.52 m: NON INTACT CORE 46.63 m - 46.74 m: 2 x J @ 20°, P, R, Clean
					45.50							47.28 m - 47.73 m: 3 x J @ 20°, 50°, 70°, P, R-S, Clean
					45.80							47.83 m - 48 m: NON INTACT CORE
			100	78	46.04							48.16 m - 48.76 m: 4 x J @ 10°, 20°, 30°, P, R, Clean
					47							48.93 m - 49.1 m: NON INTACT CORE
					48							
					49							
								END OF BOREHOLE AT 49.30 m				

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