

borehole no:
B90-20
sheet 1 of 2

engineering log — cored borehole

J1494

File No. 02.0346

BASS HWY. DUPLICATION
project: VICTORIA BRIDGE DEVONPORT 246832E
borehole location: 12m Upstream of Pier 3 & existing bridge 437896 N
hole commenced: 21/5/90
hole completed: 22/5/90
supervised by: DJG
log checked by: JGG

drill model and mounting: GEMCO 210 D slope: Vert. deg. R. L. surface: m
barrel type and length: NQTT 2.45m fluid H₂O bearing: deg. datum: State Driller G. Baker

drilling information			rock substance				rock mass defects		
method	case-lift	water	R.L. depth metres	graphic log core loss	substance description rock type: grain characteristics, colour, structure, minor components.	weathering	strength Is (50)	detect spacing mm	defect description thickness, type, inclination, planarity, roughness, coating. particular general
					River bed				
			7.0	N* = 4	SAND; fine, clayey, grey				
			7.0	N* = 4					
			9.0	N* = 6 no sample recovered					
			9.0	N* = 8 no sample recovered					
			11.0	N* = 6 no sample recovered					
			11.0	N* = 5					
			13.0	N* = 7					
			13.0	N* = 7	; with fine rounded gravel				
			15.0	N* = 5	; gravelly, clayey, some quartzite				
			15.0	N* = 15					
			15.0	N* = 9	GRAVEL; coarse, sandy, clayey, grey, rounded				typically 20mm - 30mm size
			15.0	N* = 25					
			17.0	AJ* = 37	; coarse grained particles of dolerite				
			17.0		DOLERITE; med. grained, grey	SW			green colouration of joints
			19.0			MW			highly fractured region
			19.0						broken zone with carbonate fragments
			21.0						near vertical fracture with weathered carbonate coating
			21.0			SW			
			21.0			Fr			

key method AS auger screwing AD auger drilling R roller/tricone W washbore NMLC NMLC core drilling	case-lift casing used ⊥ barrel withdrawn water 10 Oct, 73 water level date shown water inflow partial drilling water loss complete drilling water loss	graphic log/core loss [] core recovered (hatching indicates material) [] no core recovered	weathering Fr - fresh SW - slightly weathered MW - moderately weathered HW - highly weathered EW - extremely weathered	Test Values strength (indirect tensile strength) EL - extremely low VL - very low L - low M - medium H - high VH - very high EH - extremely high
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BASS HWY. DUPLICATION				hole commenced: 21/5/90					
project: VICTORIA BRIDGE-DEVONPORT 246832E				hole completed: 22/5/90					
borehole location: 12m Upstream of Pier 3 & of existing bridge 437 896N				supervised by: DJG					
				log checked by: JGG					
drill model and mounting: GEMCO 210D		slope: deg.		R. L. surface: m					
barrel type and length: NRTT 2.45m		fluid H ₂ O bearing: deg.		datum: State Driller G. Baker					
drilling information			rock substance			rock mass defects			
method	case-lift	water	R.L. depth metres	graphic log core loss	substance description rock type: grain characteristics, colour, structure, minor components.	weathering	strength Is (50)	defect spacing mm	defect description thickness, type, inclination, planarity, roughness, coating. particular general
AS			23.0	1-1	DOLERITE; becoming finer grained, blue	F			
			22.0	1-1					30° dipping joint with carbonate coating
					End of hole at 23.45m				erratic bedding dominantly sub- horizontal & sub- vertical + FeOx

key		case-lift		weathering		strength (indirect tensile strength)	
method		casing used		Fr — fresh	EL — extremely low		
AS	auger screwing	⊥ barrel withdrawn		SW — slightly weathered	VL — very low		
AD	auger drilling	water		MW — moderately weathered	L — low		
R	roller/tricone	10 Oct, 73 water level date shown		HW — highly weathered	M — medium		
W	washbore	water inflow		EW — extremely weathered	H — high		
NMLC	NMLC core drilling	partial drilling water loss			VH — very high		
		complete drilling water loss			FH — extremely high		
		graphic log/core loss					
		core recovered (hatching indicates material)					
		no core recovered					