DEPARTMENT OF MAIN ROADS (TAS.)
MATERIALS AND RESEARCH DIVISION

M & R F8

borehole no: B90-21

sheet 1 of 2

engineering log — cored borehole

J1494 File No. 02.0346

BASS HWY. DUPLICATION

project: VICTORIA BRIDGE - DEVONPORT

borehole location: 9.5m Upstream of Pier 4 & of existing Bridge

246795E
437905N

hole commenced: 23/5/90
hole completed: 24/5/90
supervised by: DJG
log checked by: JGG

drill model and mounting: GEMCO 210D slope: Vert. deg.
barrel type and length: NQTT 2.45m fluid H_2O bearing: deg.
R. L. surface: m
datum: State Driller G. Baker

drilling information				rock substance				rock mass defects	
method	case-lift	penetration rate for washboring 1 2 3	depth R.L. metres	graphic log core loss	substance description rock type: grain characteristics, colour, structure, minor components.	weathering	strength Is (50) EL VL L M H VH EH	defect spacing mm 30 100 300 1000 >3000	defect description thickness, type, inclination, planarity, roughness, coating. particular / general
					River Bed				
W		N* = 3	-6.0						silts?
		no recovery							
		N* = 4	6.0		SAND; fine, sl. gravelly, grey				rounded gravel
			-8.0						
		N* = 29	8.0		CLAY; sl. sandy, med.-high PI, blue-grey				dolerite? 50-100 kPa pocket penetrometer resistance
		N* = ?	-10.0		; with band of brown sandy clay				50-150 kPa PP resistance in situ dolerite?
		N* = 22	10.0						
		N* = 25	-12.0						
		N* = 18	12.0		CLAY; sandy, sl. gravelly, brown low-med. PI, with pockets of high PI grey clay				gravel component is Dolerite
		N* = 35	-14.0						
		N* > 50			GRAVEL; brown angular, clayey				decomposed dolerite?
NQ TT			14.0		DOLERITE; coarse grained, grey	MW-SW			brown coloration along joints
			-16.0						joint dips 50°
			16.0						joint dips 20°
			-18.0						variable jointing
			18.0			SW-Fr			small fault zone dipping at 20°
			-20.0						sub horizontal to 20° dipping joints more
			20.0						nearly continuous vertical jointing, both carbonate infilled and iron stained

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barrel withdrawn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

* Test Values

weathering
Fr – fresh
SW – slightly weathered
MW – moderately weathered
HW – highly weathered
EW – extremely weathered

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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M & R F8

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sheet 2 of 2

engineering log – cored borehole

J1494 File No. 02.0346

BASS HWY. DUPLICATION

project: VICTORIA BRIDGE–DEVONPORT

borehole location: 9.5m Upstream of Pier 4 & of existing bridge 2467.95E 437.905N

hole commenced: 23/5/90
hole completed: 24/5/90
supervised by: DJG
log checked by: KG

drill model and mounting: GEMCO 210D slope: Vert. deg. R. L. surface: m

barrel type and length: NQTT 2.45m fluid H_2O 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) EL VL L M H VH EH	defect spacing mm 30 100 300 1000 3000 >3000	defect description: thickness, type, inclination, planarity, roughness, coating. particular / general
NQ			-22.0	1-1 -1- 1-1 -1- 1-1	DOLERITE; grey	Fr			40° dipping joints 60° dipping joint with carbonate infill 45° dipping joint dominant vertical jointing
			22.0		End of hole at 21.9m				

key

method
AS auger screwing
AD auger drilling
R roller/tricone
W washbore
NMLC NMLC core drilling

case-lift
casing used
barrel withdrawn

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10 Oct, 73 water level date shown
water inflow
partial drilling water loss
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graphic log/core loss
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