engineering log — cored borehole

REF NO 18292 ACC 2
QUAD 82 PUR 0
MAP SHEET 8312.2 E = 525900 N = 5252500

borehole no 6
sheet 1 of 2.

File No.

project: Elizabeth Matric College
borehole location: As per aerial photo

hole commenced: 21/7/76
hole completed:
supervised by: W. Doe
log checked by:

drill model and mounting: Mindrill F20C slope: Vert. deg.
barrel type and length: NX, NQ fluid bearing: deg.

R. L. surface: m
datum:

Driller S. Vanker

drilling information				rock substance				rock mass defects	
method	case-lift	water	depth in 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
NX			0		CLAY Low plasticity sandy CL black				
		N(1,2,3) = 5	1		CLAY medium-high plasticity brown CH M Firm				? EW siltstone
		N(1½,4½,10)	2		CONGLOMERATE sandstone siltstone & quartz gravels in yellow clay matrix	EW			
		N(20,21,26) = 47	3						
		45 % recovery	4		SANDSTONE Coarse medium Fine	M.W			
			5		CONGLOMERATE siltstone in clay matrix	M.W			
NQ		40 % recovery			HORNFELS & altered Siltstone	Fr			
		60 % recovery	6						
		100 % recovery	7		SANDSTONE fine-med. grained yellow/brown	M.W			Bedding = 40°
					DOLERITE	M.W			
			8.01		CONGLOMERATE contains HORNFELS	M.W			Subrounded siltstone & Quartz in clay

21 203

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- barrel withdrawn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

strength (indirect tensile strength)
- EL – extremely low
- VL – very low
- L – low
- M – medium
- H – high
- VH – very high
- EH – extremely high

TC408

engineering log — cored borehole

File No.

hole commenced: 21/7/76
hole completed:
project: Elizabeth Matric College
borehole location: As per aerial photo
supervised by: W. Doe
log checked by:

6

drill model and mounting: Mindrill F20C slope: deg. R. L. surface: m
barrel type and length: NQ fluid water bearing: deg. datum: Driller S. Vanker

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			75% recovery	8.01		CONGLOMERATE sandy — contains Hornfels yellow/brown	MW			Bedding planes ≃ 30°
				9		pebbley SANDSTONE				
				10		yellow/brown contains graphite becoming finer with depth				
			100% recovery	11						
				11.82		Terminating Depth 11.82				
						Note: Hole blocked at 1.0m. No water present 30/7/76				

21 204

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

strength (indirect tensile strength): EL – extremely low; VL – very low; L – low; M – medium; H – high; VH – very high; EH – extremely high

TC408