REF No 22157

M & R F8

borehole no: BH8

sheet 1 of 2

engineering log — cored borehole

File No.

hole commenced: 4/4/05

project: MUSSELROE WIND FARM: PRELIMINARY GEOTECH INVESTIGATIONS

hole completed:

borehole location: GPS: 584803(E) 5486785 (N)

supervised by: E. BIRCH

log checked by: T. BOWLING

drill model and mounting: CMV MK 600 TRACK. slope: VERT. deg. R. L. surface: ~30 m

barrel type and length: HQTT 2.6 fluid H_2O bearing: deg. datum: NOT SURVEYED Driller G. BAKER

drilling information				rock substance					rock mass defects	
method	case-lift	water		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 60 200 600 2000	defect description: thickness, type, inclination, planarity, roughness, coating. particular / general
HQTT 2.6m BARREL			Is(50) = 9.60	1.0		TOPSOIL, silt, brown, rootmatt. CLAY; fine grained, plastic, brown, contains some gravel & round pebbles. CLAY; fine grained, dolerite crumbs. DOLERITE, fine grained, light grey	HW			0.75m vertical joint open, iron stained clay infil rough. 0.80m sub hor joint rough. 1.45 sub vertical joint iron staining open rough
				2.0			SW			
							Fr			2.10 sub horizontal joint, rough.
			Is(50) = 10.2	3.0						
				4.0						Sub vertical joints closed
			Is(50) = 9.6	5.0						horizontal & sub horiz joints open, rough & clean.
			Is(50) = 7.7	6.0						
			Is(50) = 11.7	7.0						
				8.0						

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- barrel withdrawn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

M & R F8

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sheet 2 of 2

engineering log — cored borehole

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barrel type and length: HQTT 2·6m. fluid H_2O bearing: deg.

R. L. surface: ~30 m

datum: NOT SURVEYED 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 60 200 600 >2000	defect description: thickness, type, inclination, planarity, roughness, coating. particular / general
						DOLERITE, fine grained grey	Fr			
				9.0						9.6 sub horiz. rough, open, silty fines infill.
			Is(50) = 11·7							
				10.0						10.6 - 10.7 sub horiz. joint, open, silty, rough silty fines infill.
			Is(50) = 10·7							
				11.0						11.50 sub vertical joint quartzite infill closed 0.5cm thick.
				12.00		END OF BOREHOLE				

key

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