

borehole no:
BH26
 sheet 1 of 3

engineering log - borehole

job no:

file: 121518

project: **MUSSELROE WIND FARM 3 PRELIMINARY GEOTECH INVESTIGATIONS**
 borehole location: **GPS 586541 (E) 5484206 (N)**
 hole commenced: **5/5/05**
 hole completed: **5/5/05**
 supervised by: **E. BIRCH**
 log checked by: **T. BOWLING**

drill model and mounting: **CMU MK 600 TRACK** slope: **VERT** deg. R.L. surface: **~60** m
 hole diameter: **150** mm bearing: deg. datum: **NOT SURVEYED** operator: **G. BAKER**

method	penetration	support	water	notes samples, tests, etc	R.L. depth metres	graphic log	classification symbol	material soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency, rel. density	hard penetrometer kPa	structure and additional observations
123												
					1.0		SM	TOPSOIL; silty sand, dark brown, root matter	D	L		
							SM	SAND, fine grained, light brown with some coarser grained particles subangular	D	L		
							SM	SAND, fine grained, cemented, brown	D	MD		
					2.0			CONTINUED ONTO CORED BOREHOLE SHEET				
					3.0							

key method
 AS auger screwing*
 AD auger drilling*
 R roller/tricone
 W washbore
 CT cable tool
 * bit shown by suffix:
 B - blank bit
 V - "V" bit
 T - TC bit
 e.g. ADT

support
 C casing
 M mud
penetration
 no resistance ranging to refusal
water
 10 Oct, 73 water level on date shown
 water inflow
 water outflow

notes - samples and tests
 U50 - undisturbed sample 50 mm diameter
 D - disturbed sample
 N - standard penetration test: figure = result
 N* - SPT + sample
 Nc - cone penetrometer

classification symbols and soil description
 based on unified classification system
moisture
 D - dry
 M - moist
 W - wet
 < PL
 = PL
 > PL

consistency/relative density
 VS - very soft
 S - soft
 F - firm
 St - stiff
 VSt - very stiff
 H - hard
 Fb - friable
 VL - very loose
 L - loose
 MD - moderately dense
 D - dense
 VD - very dense

engineering log — cored borehole

File No.

project: **MUSSELROE WIND FARM & PRELIMINARY**
 borehole location: **GEDTECH INVESTIGATIONS**
 hole commenced: **6/5/05**
 hole completed: **5/5/05**
 supervised by: **E. BIRCH**
 log checked by: **T. BOWLING**

drill model and mounting: **CMV MK 600 TRACK** slope: **VERT** deg.
 barrel type and length: **HOTT 2.6m** fluid bearing: deg.
 R. L. surface: **~60** m
 datum: **NOT SURVEYED** Driller **G. BAKER**

drilling information			rock substance			rock mass defects		
method	case-lift	water	R.L. depth metres	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
			1.0	CONTINUED FROM BOREHOLE SHEET				
			2.0	DOLERITE fine grained, light grey	MW			Subvertical to vertical joints open, rough & highly weathered, iron stained.
			3.0		SW		Subhorizontal joints, clean, rough & iron stained.	
			4.0					3.0m weathering around joints extends 10mm red in colour
			5.0					5.30m - 5.40m subvertical joint highly weathered open, iron stained.
			6.0					6.30m subvertical, laminated joint iron stained.
			7.0					
			8.0					

HOTT 2.6m BARREL

key method AS auger screwing AD auger drilling R roller/tricone W washbore NMLC NMLC core drilling	case-lift casing used H barrel withdrawn water 10 Oct, 73 water level date shown water inflow partial drilling water loss complete drilling water loss	graphic log/core loss [hatched] core recovered (hatching indicates material) [empty] 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
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engineering log — cored borehole

File No.

project: **MOSSEROE WIND FARM : PRELIMINARY
GSDTECH INVESTIGATIONS**

borehole location:

hole commenced: **5/5/05**
 hole completed: **5/6/05**
 supervised by: **E. BIRCH**
 log checked by: **T. BOWLING**

drill model and mounting: **CMU-MK600 TRACK** slope: **VERT** deg.
 barrel type and length: **HOTT 2.6** fluid bearing: deg.
 R. L. surface: **~60** m
 datum: **NOT SURVEYED** Driller **G. BAKER**

drilling information			rock substance				rock mass defects		
method	case-lift	water	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
			9.0	1-1	DOLERITE fine grained light grey	SW			8.8 moderately fractured mostly closed joints rough surface, brown staining
			10.0	1-1	CORE LOSS				9.0m sub vertical joints infill dark fine silty black material
			11.0	1-1		MW			9.5m vertical laminated white joint weathered
			12.0	1-1					10.5 horizontal joint open closed joints no separation subhorizontal
			11.95		END OF BOREHOLE 11.95m				

key method AS — auger screwing AD — auger drilling R — roller/tricone W — washbore NMLC — NMLC core drilling	case-lift — casing used H — 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
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