

borehole no:
BH42
 sheet 1 of 3

engineering log – borehole





job no:

file: 121518

project: **MUSSELROE WIND FARM'S PRELIMINARY GEOTECH INVESTIGATIONS**
 borehole location: **GPS: 592973 E 5482218 N**
 hole commenced: **6/4/05**
 hole completed: **6/4/05**
 supervised by: **E. BAKER**
 log checked by: **E. BAKER**

drill model and mounting: **CMU MK 600 TRACK** slope: **VERT** deg.
 hole diameter: **150** mm bearing: deg.
 R.L. surface: **~15** m
 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	structure and additional observations
123													
HOLLOWFLIGHT AUGER						1.0		SM	TOPSOIL, sand fine grained brown, wet with	D	L		
				N ₁₀ = 10 (3,5,5)					SAND, fine grained, orange some coarser quartz s.s. & angular material	D	L		
						2.0			SAND, fine grained, light brown ; becoming darker brown	M	L		No sample taken
				N ₁₆ = 16 (2,5,11)							M	MD	
								GC CH	CLAY, fine grained, grey contains gravel sub rounded, (completely weathered granite)	M		x x	
CONTINUED ONTO CORED BOREHOLE SHEET													

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
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engineering log — cored borehole

File No. 121518

project: **MUSSELROE WIND FARM: PRELIMINARY GEOTECH INVESTIGATIONS.**
 borehole location: **GPS: 592973 (E) 5482218 (N)**
 hole commenced: 6/4/05
 hole completed: 6/4/05
 supervised by: E. BIRCH
 log checked by: T. BOWLING

drill model and mounting: **CMV MK600 TRACK** slope: **VERT** deg.
 barrel type and length: **HOTT 2.6m** fluid bearing: deg.
 R. L. surface: **~15** m
 datum: **NOT SURVEYED** Driller: **BAKER.**

drilling information			rock substance			rock mass defects			
method	case-lift	water	Li depth m: 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
			1.0						
			2.0		CONTINUED FROM BOREHOLE SHEET				
			3.0	+	GRANITE; coarse grained clay fines, plastic, orange.	EW			
			4.0	+		HW			
			5.0	+					
			6.0	+					
			7.0	+					
			8.0	+					

HOTT 2.6m BARREL

N^x = 24
(5, 10, 14)

N^x = 260

Is(50) = 0.09

Is(50) = 0.09

30 blows for 12mm only
bouncing

4.95 vertical to sub vertical
joints closed.

massive

very soft
& crumbly



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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engineering log — cored borehole

File No. 121518

project: MUSSELROE WIND FARM: PRELIMINARY
GEDTECH INVESTIGATIONS
borehole location: GPS: 592973(E) 5482218(N)

hole commenced: 6/4/05
hole completed: 6/4/05
supervised by: E BIRCH
log checked by: T BOWLING

drill model and mounting: HOTT MK 600 TRACK slope: VERT deg.
barrel type and length: HOTT 2.6m fluid bearing: deg.

R. L. surface: ~15 m
datum: NOT SURVEYED Driller G BAKER

drilling information			rock substance				rock mass defects		
method	case-lift	water	L depth D: 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
					BRANITE, coarse grained clay silty fines, pinky green grey in colour.	HW			
			9.0						sub vertical joints with fill
			10.0						tends to break sub horizontally
						MW			
			11.0			HW			11.15 45° open joint closed
									11.05-12.10 cumbles
			12.0						11.40 sub vertical joint closed

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