A22

SAMPLE STATION DATA

INSTITUTE OF GEOLOGICAL SCIENCES - MARINE GEOLOGY UNIT

SAMPLE NO. F (1) | +59 (± lat) | -01 (± long) | 0079 (no.) 11

CRUISE NO. 82 | WH | 05 (year : ship : no) 18

DATE 06 | 04 (mnth : day) 22

TIME (local) 20 | 35 (hrs : mins) 26

WATER DEPTH 135 (metres) 30

POSITION FIXING METHOD A

COMMENT 32

NAVIGATIONAL READINGS (tick lanes with best intersection)

CHAIN 6C

RED 41

GREEN 5 43.80 48

PURPLE H 69.12 55

POSITION

LATITUDE + 59 | 25.00 (± degs : mins (decimal)) 63

LONGITUDE - 00 | 21.00 (± degs : mins (decimal)) 71

ADDITIONAL INFORMATION :

EQUIPMENT TYPE: 1 = sample recovered; 2 = no sample (geological reasons); 3 = no sample (equipment failure); 4 = no sample (undifferentiated)

G (1) dup cols 2-11

GS | VE | CS | CR | DM | DR | BH | SD | RD | SU | PS | DI | BS | OC | OG

1 1 (12 ... 22 ... 32)

T.D. metres 597 (50 ... 55)

SUMMARY SAMPLE DESCRIPTION : (Free text - max. 69 characters)

H (1) dup cols 2-11

INTERLAMINAE MUD AND SAND ON MUD-

PEBBLE SANDY CLAY ON FIRM SANDY CLAY

GEOTECHNICAL DATA :

RAW DATA

PENETROMETER

Head	Readings				
100/4	0.4	0.5	0.5	0.8	
11	0.2	0.5	1.3	1.5	
11	1.0	1.2	1.1	1.0	
11	2.30	2.20	2.00	2.10	

HAND VANE

Head	Readings		
x2	3.0	3.0	
11	4.0	4.0	
11	4.5	5.0	
x10	2.2	1.80	

AVERAGED DATA

I (1) dup cols 2-11

DEPTH	PENETROMETER (KPa)	HAND VANE (KPa)
3:75 (14)	6:9 (18)	6:0 (22)
4:08 (25)	10:9 (29)	8:0 (33)
4:63 (36)	13:4 (40)	9:5 (44)
5:84 (47)	26:9 (51)	20:0 (55)
(58)	(62)	(66)
(69)	(73)	(77)

I (1) dup cols 2-11

DEPTH	PENETROMETER (KPa)	HAND VANE (KPa)
(14)	(18)	(22)
(25)	(29)	(33)
(36)	(40)	(44)
(47)	(51)	(55)
(58)	(62)	(66)
(69)	(73)	(77)

SAMPLE DESCRIPTION SHEET

INSTITUTE OF GEOLOGICAL SCIENCES - MARINE GEOLOGY UNIT

SAMPLE NO. +59 | -01 | 79

SURFACE SAMPLE	Equipment Used: GS	Seabed Photo: ~~Yes~~/No	Stored in: 1 Jars, — Bags.

SILTY SANDY MUD, olive-green (5Y 4/2·5); sand fraction c 2% silt, 10% vf sand, remainder fine (trace medium); well-sorted, a-R; foraminifera common, few spicules, trace mica, <1% lithic grains; no shell gravel noted

CORE SAMPLE	Equipment Used: VE	Stored in: 6 Cut Cores, — Uncut Cores, 1 Jars, — Bags.

Core Photo: Yes/No

Depth (m)	Log	Description	Sub Samples	Geotechnical Log
0		0-5.24M :— INTERLAMINATED MUD, very soft, highly plastic, reddish-brown (10YR5/2) in c top 50cm, then olive-green (5Y 4·5/1), slightly silty, no sand fraction; v. soft, highly plastic, slightly calcareous only and SAND, olive-green (5GY 4·5/1), very fine to fine-grained, a-A, very well-sorted - foraminifera noted; c20-30% lithic grains, few flakes mica noted. no shell, non-calcareous Sand: clay approx 50:50 - Sand units vary from few mm to c40cm (ungraded); clay from few mm to c 18cm, mostly 2-5cm. thicker clay units finely-laminated due to variation silt, sand content. Locally up to c 30% rounded clasts brown mud a/a or sand, dk grey mud - cf. dropstones One sand unit 1·8-2·1m abundant black woody clasts		
1				
2				
		on (gradational contact)		
3		5·24 - 5·55M MUD-PEBBLE SANDY MUD :— olive-green (5Y 4/2); sand fraction very fine to coarse-grained, very poorly-sorted, a-R, silty, c 2% lithic grains, moderately calcareous with c 20% dropped pebbles clay, sand a/a. Structureless, uniform.		
4		5·55-5·97M MUD, firm dark olive-green (5Y 3·5/1), intermediate plastic, strongly calcareous; sand fraction very fine to medium-grained, very poorly-sorted, A-R, structureless; becomes slightly stiffer towards base Few broken fragments shell throughout		
5				
5·55				
5·97				
6		T.D. 5·97M		

shear strength ○ compressive strength △

SAMPLE STATION GEOLOGY

GEOLOGIST: DC

SAMPLE NUMBER: K +59 -ϕ1 79

K dup columns 2-11

Depth upper	Depth lower	Sediment (Folk class) or main rock type	Subordinate rock type	Munsell colour	Sorting	HCl Reaction	Sand Grain Size Range	Sand Roundness Range	Sand Sphericity	Sand % Shell Material	Mud Hardness	Mud Plasticity	Gravel % Shell Material	Gravel Max. Clast Size (mm)	Gravel Roundness Range	Gravel Sphericity	Basal Contact	Bedding	Jointing	H2S Odour	Heavy Minerals	Mica	Glauconite	Fauna/Fossils	Whole Shells	Forams	Plant Remains	Chronostrat	Lithostrat	Unit	Comments
ϕ·ϕϕ	5·24	M	S	5Y 4.5/1	X	W	VF	AS		ϕ	V	H					G	F				R				R	R				C
5·24	5·55	(G) SM		5Y 4/2	V	M	VC	SR		ϕ	V	H	ϕ	1ϕ	R	R	S	F													
5·55	5·97	M		5Y 3.5/1	V	M	VM	AR		ϕ	F	I						M													

Column numbers: 12, 21, 30, 40, 48, 52, 61, 80

ABUNDANCE SCALE

L dup columns 2-11

Depth upper	Depth lower	Label	Additional comments (free text)
ϕ·ϕϕ	5·24	1	MUD LAMINAE 10YR 5/2 IN TOP 50 CM
ϕ·ϕϕ	5·24	2	LOCALLY UP TO 10% WELL-ROUNDED CLAY PEBBLES
ϕ·ϕϕ	5·24	3	SAND BEDS UP TO 40 CM WITH MUD INTERBEDS MAINLY 2 TO 5 CM

Column numbers: 12, 21, 30, 40, 50, 60, 70, 80

SORTING OF TOTAL SAMPLE: V = very poorly sorted; P = poorly sorted; M = moderately sorted; W = well sorted; X = very well sorted

HCl REACTION: N = no reaction; W = weak; M = moderate; S = strong

SAND GRAIN SIZE: S = silt; V = very fine; F = fine; M = medium; C = coarse; K = very coarse

ROUNDNESS: V = very angular; A = angular; S = subangular; U = subrounded; R = rounded; W = well rounded

SPHERICITY: L = low; H = high

MUD HARDNESS: V = very soft; S = soft; F = firm; T = stiff; Y = very stiff; H = hard

MUD PLASTICITY: N = non-plastic; L = low plasticity; I = intermediate; H = highly plastic

BASAL CONTACT: G = gradational; S = sharp; E = erosive; U = unconformity

BEDDING: F = flat lamination; R = ripple lamination; X = cross-bedded; D = disturbed; C = colour banded; G = graded bedding

JOINTING: J = prominent joints; D = prominent discontinuities; F = fissuring

H_2S ODOUR: W = weak; M = moderate; S = strong; A = induced by acid

ABUNDANCE SCALE: R = rare; C = common; A = abundant

LITHOSTRAT UNIT: G = group; F = formation; M = member; B = bed; I = informal

COMMENTS: C = additional comments below; 1, 2 etc = label if more than one comment.

SHEET ____ OF ____