SAMPLE STATION DATA

INSTITUTE OF GEOLOGICAL SCIENCES - MARINE GEOLOGY UNIT

SAMPLE NO. F (1) | +59 (± lat) | +00 (± long) | 212 (no.) 11

CRUISE NO. 83 | WH | 02 (year : ship : no 18)

DATE 05 | 31 (mnth : day 22)

TIME (local) 07 | 30 (hrs : mins 26)

WATER DEPTH 117 metres 30

POSITION FIXING METHOD [L]

COMMENT [ ] 32

NAVIGATIONAL READINGS (tick lanes with best intersection)

CHAIN 0E

RED [ ] F 02.20 41

GREEN [✓] F 37.78 48

PURPLE [✓] F 70.84 55

POSITION

LATITUDE +59 | 59.66 (± degs : mins (decimal) 63)

LONGITUDE +00 | 09.60 (± degs : mins (decimal) 71)

ADDITIONAL INFORMATION : B1

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 2800 (50 ... 55)

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

[H] (1) dup cols 2-11

SAND AND SHELL HASH ON BROWN GRAV (12 ... 20 ... 30 ... 40)

ELLY MUDDY SAND ON HARD SANDY MUD (50 ... 60 ... 70 ... 80)

GEOTECHNICAL DATA :

RAW DATA

PENETROMETER: Head | Readings

HAND VANE: Head | Readings

AVERAGED DATA

[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

[I] (1) dup cols 2-11

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 00 212

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

Sand, olive, very rich in foraams, both fresh and yellowed ?reworked tests. Predominantly quartz, fine grained, some v-fine and medium, occasional coarser grains, mostly subrounded. Rare rock fragments and soft dark mineral ?glauconite. Moderate sorting, some worn shell fragments in addition to foraams; strong reaction with HCl.; some echinoid spines Rare mica.

CORE SAMPLE	Equipment Used: VE	Stored in: 3 Cut Cores, ~~Uncut Cores~~, 1 Jars, ~~Bags~~.

Depth	Log	Description	Core Photo: Yes/~~No~~	Sub Samples	Geotechnical Log

(m)

0·1 — Sand as above

0·3 — Shell wash with large bivalve fragments and gastropods, many bored, but largely angular.

0·7 — well sorted fine sand grading down into poorly sorted slightly shelly fine-coarse sand, equivalent to thixotropic sand on "beach" sand.

0·95

1

Brown ?till - gravelly muddy sand, pebbles up to 7cm some well rounded, broken and with worn edges. ?Secondary derivation - quartzitic ex-ORS conglom. arkosic sandst., glauconitic sandst, ?basalt, green sandstone.

Rounded - well-worn shell fragments (5% of gravel)

2

2·63

2·80

TD

similar to above but sandy mud and with smaller pebbles

3

4

5

6

shear strength ○ compressive strength △

SAMPLE STATION GEOLOGY

GEOLOGIST: Alan Fyfe

SAMPLE NUMBER: K +59 +00 212

K dup columns 2-11

DEPTH INTERVAL (m) upper	lower	SEDIMENT (Folk class) or main rock type	subordinate rock type	MUNSELL COLOUR	Sorting	HCl Reaction	SAND Grain Size Range	Roundness Range	Sphericity	% Shell Material	MUD Hardness	Plasticity	GRAVEL % Shell Material	Max. Clast Size (mm)	Roundness Range	Sphericity	Basal Contact	Bedding	Jointing	H_2S Odour	Heavy Minerals	Mica	Glauconite	Fauna/Fossils	Whole Shells	Forams	Plant Remains	Chronostrat	Lithostrat	Unit	Comments
0.00	0.10	S		5Y 4/1 3	m	S	VM	W	H	2Φ							G					R	P			A		Q,F			C
0.10	0.40	S,G		5Y 4/1 2	P	M	VC	SW					9.5	6Φ	A		G									P		Q	H,A,S,H	I	C
0.40	0.70	G,S		5Y 4/1 2	P	M	VC	SW					9.5	3Φ			G									P		Q	H,A,S,H	I	C
0.70	0.95	S		5Y 4/1 2		S	VM	SR									S						C					Q	T,H,I,X	I	C
0.95	2.63	G,M,S		7.5Y 4/1 2	V	M	VK	SR					.5	7Φ	SR		S											Q	R,E,D,T	I	C
2.63	2.80	G,S,M		7.5Y 4/1 2	V	S	VK	SR			H	N	.5	2Φ			F											Q			C

ABUNDANCE SCALE

L dup columns 2-11

DEPTH INTERVAL (m) upper	lower	label	ADDITIONAL COMMENTS (FREE TEXT)
0.00	0.10		MANY, ?REWORKED, FORAMS
0.10	0.40		BROKEN AND BORED HORSE MUSSEL FRAGS AND WHELKS
0.40	0.70		VARIENT OF UNIT ABOVE WITH LESSER GRANEL FRACTION
0.70	0.95		WELL SORTED IN TOP PART, COARSE AND SHELLIER IN BASE
0.95	2.63	1	PEBBLES OF MIXED ORIGIN INCL QUARTZITIC Rock fragments ARKOSIC
0.95	2.63	2	SANDSTONE, ?BASALT, GREEN SANDSTONE, WELL-WORN SHELL FRAGS
0.95	2.63	3	SOME PEBBLES WELL-ROUNDED AND STRIATED BUT BROKEN EDGES
0.95	2.63	4	ALSO ROUNDED
2.63	2.80		SIMILAR TO ABOVE BUT MUDDIER

SORTING OF TOTAL SAMPLE	HCl REACTION	SAND GRAIN SIZE	ROUNDNESS	SPHERICITY	MUD HARDNESS	MUD PLASTICITY	BASAL CONTACT	BEDDING	JOINTING	H_2S ODOUR	ABUNDANCE SCALE	LITHOSTRAT UNIT	COMMENTS
V=very poorly sorted	N=no reaction	S=silt	V=very angular	L=low	V=very soft	N=non-plastic	G=gradational	F=flat lamination	J=prominent joints	W=weak	R=rare	G=group	C = additional comments below
P=poorly sorted	W=weak	V=very fine	A=angular	H=high	S=soft	L=low plasticity	S=sharp	R=ripple lamination	D=prominent discontinuities	M=moderate	C=common	F=formation	
M=moderately sorted	M=moderate	F=fine	S=subangular		F=firm	I=intermediate	E=erosive	X=cross-bedded	F=fissuring	S=strong	A=abundant	M=member	1,2etc = label if more than one comment.
W=well sorted	S=strong	M=medium	U=subrounded		T=stiff	H=highly plastic	U=unconformity	D=disturbed		A=induced by acid		B=bed	
X=very well sorted		C=coarse	R=rounded		Y=very stiff			C=colour banded				I=informal	
		K=very coarse	W=well rounded		H=hard			G=graded bedding					SHEET ____ OF ____