SAMPLE STATION DATA

INSTITUTE OF GEOLOGICAL SCIENCES - MARINE GEOLOGY UNIT

SAMPLE NO. F +59 +01 125
1 ± lat ± long no. 11

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

DATE 05 16 (mnth : day 22)

TIME (local) 2135 (hrs : mins 26)

WATER DEPTH 123 metres 30

POSITION FIXING METHOD 4

COMMENT 32

NAVIGATIONAL READINGS (tick lanes with best intersection)

CHAIN 0E

RED 41

GREEN J 46.42 48

PURPLE I 77.82 55

POSITION

LATITUDE +59 05.74 (± degs : mins (decimal) 63)

LONGITUDE +01 17.61 (± 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 5.74 (50 55)

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

H 1 dup cols 2-11

POORLY SORTED MUDDY SAND OVER COA (12 20 30 40)

RSER CLEAN SAND AND MUDDY SANDS (50 60 70 80)

GEOTECHNICAL DATA :

RAW DATA

PENETROMETER Head	Readings					HAND VANE Head	Readings			

AVERAGED DATA

	DEPTH	PENETROMETER (KPa)	HAND VANE (KPa)
I 1 dup cols 2-11	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

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SAMPLE NO. | +59 | +01 | 125

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

Muddy sand, fine grade, subrounded quartz and lithics with subsidiary silt and v. fine sand and occasional coarser grains. Olive in colour, 5Y 4/3, heavy minerals, rare forams and spicules. Some pink grains.

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

Core Photo: Yes/~~No~~

Depth (m)	Log	Description	Sub Samples	Geotechnical Log

ms as above. complete cardium bivalve @ 33 cm depth.

0.63 S and ms with shells.

Alternations of well sorted medium to fine grained grey sand 5Y 4/1 with a browner more clayey sand 5Y 5/1 the coarse sand looks like a washed sand & contains 7% lithic fragments approx 2% shell fragments and no forams were seen. Weak reaction with HCl. The finer grained more clayey material is a poorly sorted fine grained clayey sand with 7% lithics and 3% shell fragment. HCl reaction is stronger.

3.29 ms In both types the predominant mineral is subangular to subrounded quartz grains. Some gravel grade shell material present in coarser sand horizons.

3.81 as in intercallations of muddy sand in coarse sand above.

ms Poorly sorted muddy sand greenish grey in colour with 3% lithic fragments and heavy minerals, 2% shell fragments but no gravel grade shell material – one pebble 1 cm size of sst. seen.

4.80 ms as above but back to grey brown colour of the 3.29 – 3.81 m unit.

5.28 (g) ms as above but with gravel grade shell material.

5.50 and black ? sulphide streaks. H_2S smell with HCl.

(g) S grey sand as in unit from 0.63 with gravel grade shell material. Subangular to subrounded quartz grains fine to med. mod. well sorted, 5% lithics and heavy minerals. No forams.

5.74 m T.D.

o shear strength Δ compressive strength

SAMPLE STATION GEOLOGY

GEOLOGIST: Argyle

SAMPLE NUMBER: K 1 +5.9 +0.1 1.25 11

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	0.63	mS		5Y 4/3	M	M	S,F	S,U	H	2			1	0.5													R				C
0.63	3.29	S	mS	5Y 4/1	M	W	F,M	S,U	H	2	S	H	1	0.5							P										C
3.29	3.81	mS		5Y 5/1	P	M	S,F	S,U	L	3																					C
3.81	4.80	mS		5G 5/1	P	M	S,F	S,U	H	2											P										C
4.80	5.28	mS		5Y 5/1	P	M	S,F	S,U	L	3																					C
5.28	5.50	(g) mS		5Y 5/1	P	G	S,F	S,U	L	5			1	0.5						A											C
5.50	5.74	S		5Y 4/1	M	W	F,M	S,U	H	2			1	0.5							P										C

ABUNDANCE SCALE

L dup columns 2-11

DEPTH INTERVAL (m) upper	lower	label	ADDITIONAL COMMENTS (FREE TEXT)
0.00	0.63		OMG GARDINUM BIVALVE COMPLETE AT 33 CM DEPTH IN CORE
0.63	3.29	1	SOME GRAVEL GRADE SHELLY MATERIAL IN SAND HORIZONS. MUDDY
0.63	3.29	2	SAND INTERCALLATIONS ARE VERY THIN AND MORE BROWN COLOUR
3.29	3.81		SLIGHTLY MUDDY INTERCALLATIONS MENTIONED IN 0.63 TO 3.29
3.81	4.80	1	DISTINCTIVE GREEN/GREY COLOUR NO SHELLS ONE PEBBLE OF
3.81	4.80	2	SANDSTONE SIGEN 1 CM SIZE SUBROUNDED
5.28	5.50	1	SAME AS MUDDY SAND ABOVE IT BUT WITH GRAVEL GRADE SHELLS
5.28	5.50	2	AND BLACK ? SUBPHIDE STREAKS STRONG H_2S SMELL WITH HCl
5.50	5.74		SLIGHTLY TO SAND IN 0.63 TO 3.29 UNIT WITH GRAVEL SIZE SHELL

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	1,2 etc = 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		V=very stiff			C=colour banded				I=informal	
		K=very coarse	W=well rounded		H=hard			G=graded bedding					SHEET ____ OF ____