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Laboratory Item 484

A SUMMARY OF SEDIMENT SIZE, CHEMISTRY, X-RADIOGRAPHY, SOUND VELOCITY, ENGINEERING AND MASS PHYSICAL PROPERTIES OF ELEVEN CORES FROM ST. ANDREW BAY, FLORIDA. MIKE BOAT. JANUARY 1975.

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Prepared for: NAVOCEANO/NCSL Ground Mine Penetration Project

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Geological Laboratory
Oceanographic Support Division
Oceanographic Department

NAVAL OCEANOGRAPHIC OFFICE
WASHINGTON, D.C. 20373

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EXPLANATION OF DATA PAGES
CORE ANALYSIS SUMMARY SHEET
Engineering Properties
NAVOCEANO (EXP) 3167/18B (Rev. 1-63)

Results of engineering properties, core analysis performed by the U. S. Naval Oceanographic Office Geological Laboratory are recorded on Core Analysis Summary Sheet Engineering Properties.

The following is a description of the terms employed on the Core Analysis Summary Sheet:

1. Cruise Number. A number assigned to each cruise for identification purposes.

2. Latitude. Expressed in degrees, minutes, and seconds.

3. Longitude. Expressed in degrees, minutes, and seconds.

4. Sample Number. A consecutive number, commencing with 1, applied to each core taken successively throughout the cruise.

5. Date Taken. Day (GMT), month, and year.

6. Water Depth (m). The uncorrected sonic sounding recorded in meters.

7. Type Corer. Identified by the name of device employed.

8. Core Length (cm). Recorded in centimeters as observed in the laboratory.

9. Core Penetration (cm). Recorded in centimeters as observed in the field.

10. Subsample Depth in Core (cm). Interval of subsample as measured in centimeters from the top of the core.

11. Wet Unit Weight (g/cm^3). The weight (solids plus water) per unit volume of the sediment mass.

12. Specific Gravity of Solids. The ratio of weight in air of a given volume of a sediment at 20°C to the weight in air of an equal volume of distilled water at 20°C.

13. Water Content (% dry weight). The ratio, in percent, of the weight of water in a given mass of the sediment sample to the weight of the solid particles.

14. Void Ratio. The ratio of the volume of void spaces to the volume of solid particles in the sediment sample as computed from Wet Unit Weight, Specific Gravity of Solids, and Water Content.

15. Saturated Void Ratio. The Void Ratio at 100 percent saturation as computed from Water Content and Specific Gravity of Solids.

$$\text{Saturated Void Ratio} = \frac{\text{Water Content X Specific Gravity of Solids}}{100}$$

16. Porosity (%). The ratio, usually expressed as a percentage, of the volume of voids of a sediment mass to the total volume of the sediment mass.

17. Liquid Limit. Water Content, in percent, at which a pat of sediment cut by a groove of standard dimension will flow together for a distance of 1/2 inch under the impact of 25 blows in a standard liquid limit apparatus.

18. Plastic Limit. Water Content, in percent, at which a sediment will just begin to crumble when rolled into a thread approximately 1/8 inch in diameter.

19. Plasticity Index. The numerical difference between the Liquid Limit and Plastic Limit of the sediment mass.

20. Liquidity Index. The ratio, expressed in percentage, of (1) the natural water content of the sediment sample minus its Plastic Limit to (2) its Plasticity Index.

21. Compression Index. The slope of the linear portion of the Pressure-Void Ratio curve on a semi-log plot.

22. Compressive Strength. The load per unit area required to shear an unconfined, natural or remolded, sediment mass.

23. Cohesion. The shearing strength per unit area under zero externally applied load.

24. Sensitivity. The ratio of the natural to the remolded strength. It is a measure of the loss of strength due to remolding the sediment mass.

25. Angle of Internal Friction (°). The angle between the abscissa and the tangent of the curve representing the relationship of "shearing resistance to "normal stress" acting within a sediment mass.

26. Activity. The ratio of the Plasticity Index to the clay fraction percentage ($<$.002mm) of the sediment mass.

27. Modulus of Elasticity. The ratio of stress to strain of the sediment mass.

28. Slump (%). The ratio, in percent, of the amount of height change immediately before the compressive strength test to the original height of a cylinder of sediment.

The results of the sediment size and composition analyses are printed out in tabular form.

The following is an explanation of the terms encountered on the data printout sheet:

CRUISE A number assigned to each cruise for identification purposes.

SAMPLE A consecutive number applied to each core taken successively throughout the cruise.

LATITUDE Expressed in degrees, minutes, and tenths of minutes.

LONGITUDE Expressed in degrees, minutes and tenths of minutes.

TAKEN Date in day, month, and year that core was taken.

CORER TYPE Letters corresponding to sampling device code below.

Corers		Grabs	
HYP	Hydroplastic piston	SPK	Shipek Sediment Sampler
HYG	Hydroplastic gravity	HLP	Alpine Heavy Duty Grab
KUP	Kullenberg piston	SMS	Small Mud Snapper
KUG	Kullenberg gravity	VVS	Van Veen Grab
PHL	Phlegar gravity	BED	Birge-Ekman Dredge
MEG	Modified Ewing gravity	DLS	Dietz-LaFond Snapper
MEP	Modified Ewing piston	OPG	Orange Peel Grab
VIB	Vibrocorer	SBS	Scoopfish Bottom Sampler
BOM	Boomerang	DOC	Diver Operated Corer
EWP	Ewing piston		
EWG	Ewing gravity		

LENGTH Length of core recorded in centimeters as observed in the laboratory.

PENETRATION Penetration of coring device recorded in centimeters as observed in the field.

DEPTH The uncorrected sonic sounding in meters.

ANALYZED Date in day, month, and year that core was analyzed in the laboratory.

I.D. No. Three or four digit laboratory project number followed by consecutive number assigned to each subsample analyzed.

INTERVAL Interval of subsample as measured in centimeters from the top of the core.

MM Particle diameter size intervals based on Wentworth size grades in millimeters.

PER Percent of total sample weight within the given size interval.

GRAVEL, SAND SILT, CLAY — Percent of the total sample weight within the four size classes.

Class ranges are:

1. Gravel - coarser than 2 mm
2. Sand - 2 to 0.0625 mm
3. Silt - 0.0625 to 0.0039 mm
4. Clay - finer than 0.0039

MEAN (MM) — The geometric mean of the distribution expressed in millimeters.

MEAN (PHI) — The logarithmic mean of the distribution expressed in phi units ($-\log_2$) of the diameter in millimeters.

STAN DEV — Standard deviation. A measure of the degree of spread or dispersion of the distribution about the mean expressed in phi units.

$$s = \sqrt{\frac{\sum f \quad (X_i - \bar{X})^2}{100}}$$

SKEWNESS — A measure of the asymmetry of the distribution. Positive values denote skewness of the distribution toward the fine particles; negative values denote skewness toward the coarse particles. A normal distribution has a skewness of 0.

$$\text{Skewness} = \frac{2 \sum f \quad (X_i - X)^3}{100 \quad s^3}$$

KURTOSIS — A measure of the peakedness of the distribution. Positive values denote a "leptokurtic" distribution more "peaked" than normal. Negative values denote a "platykurtic" distribution, or a distribution more "flat" than normal. When using the following formula, a normal curve has a kurtosis of 0.

$$\text{Kurtosis} = \left[\frac{\sum f \quad (X_i - \bar{X})^4}{100 \quad s^4}\right] - 3$$

$CACO_3$ — Percent of the total sample weight soluble in 2 N HCL.

ORG CARBON — Percent organic carbon of the total sample weight as determined using a Leco carbon analyzer.

COLOR — Wet sediment color, based on the Geological Society of America Rock-Color Chart, as determined in the laboratory.

NITROGEN — Percent nitrogen of the total sample weight as determined by the Kjeldahl method.

DOM CONST — Dominant constituent (s) comprising the sample assemblage.

SEC CONST — Secondary constituent (s) comprising the sample assemblage.

ABBREVIATIONS

AGL	Agglutinated	LS	Limestone
ALG	Algae, Algal	MAF	Mafic
ALGY	Algae	MAG	Magnetite
ASH	Volcanic Ash	MIC	Mica
BAS	Basalt, Basaltic	MIN	Mineral
BIT	Biotite	MLSC	Mollusc
BKN	Broken	MN	Manganese
BRKN	Broken	MSC	Mollusc
BRY	Bryozoa	NOD	Nodules
BUR	Burrow, (-s), (-ed)	OOL	Oolites
BURW	Burrow, (-s), (-ed)	ORG	Organic Material
CAL	Calcite, Calcareous	OST	Ostracods
CHL	Chlorite	PCY	Pelecypods
CHT	Chert	PEB	Pebbles
CL	Clay	PHS	Phosphate
CMT	Cement (-ed)	PLCY	Pelecypods
COA	Coal	PLT	Plant Material
COB	Cobble (-s)	PTER	Pteropods
COR	Corals	PTR	Pteropods
DIA	Diatoms	PUM	Pumice
DOL	Dolomite	PYR	Pyrite
DK	Dark	QTZ	Quartz
ECH	Echinoid	RAD	Radiolaria
EPD	Epidote	RX	Rocks
FEL	Feldspars	SCH	Schist, Schistose
FMN	Ferromanganese	SH	Shale, Shaly
FOR	Foraminifera	SHD	Shards
FRAG	Fragments	SHL	Shell
FRG	Fragments	SID	Siderite
FRI	Friable	SLS	Siltstone
GLAUC	Glauconite	SLTST	Siltstone
GLB	Globigerina	SPC	Sponge Spicules
GLC	Glauconite	SPCL	Sponge Spicules
GRT	Granite, Granitic	SPD	Echinoid Spines
GRV	Gravel	SERP	Serpentinite
GST	Gastropods	SRP	Serpentinite
GSTR	Gastropods	SS	Sandstone
HAL	Halimeda	TRL	Trail
HSH	Hash	TUB	Worm Tube
HVY	Heavy Minerals	TUF	Tuff, Tuffaceous
KSP	Potassium Feldspar	WRM	Worm
LMN	Limonite	ZEO	Zeolite

( ) Structure difficult to observe

(( )) Structure hardly visible

Interval over which structure occurs

--- Structure changing to another over short distance

Structure changing very gradually into overlying structure

– Combination of two structures

Distinct lithological or color contact

Thin parallel lamination, laminae <2 mm thick

Wavy thin lamination

Irregular thin lamination

Thick parallel lamination, laminae 2-10 mm thick

Wavy to irregular thick lamination

Parallel thin bedding, beds 1-5 cm thick

Wavy to irregular thin bedding

Lenticular shapes

Wedge-shaped

Foreset bedding

Convolute lamination

Graded bedding

Load casts

Slump

Burrows in all directions

Burrows in vertical direction only

Mottled structure

Inclusions, nests

Fossils in general

LGP Lamellibrachs, gastropods, pteropods

Fossil fragments

Mycelium

Fault (micro size)

Horizontal degassing structure

Vertical degassing structure

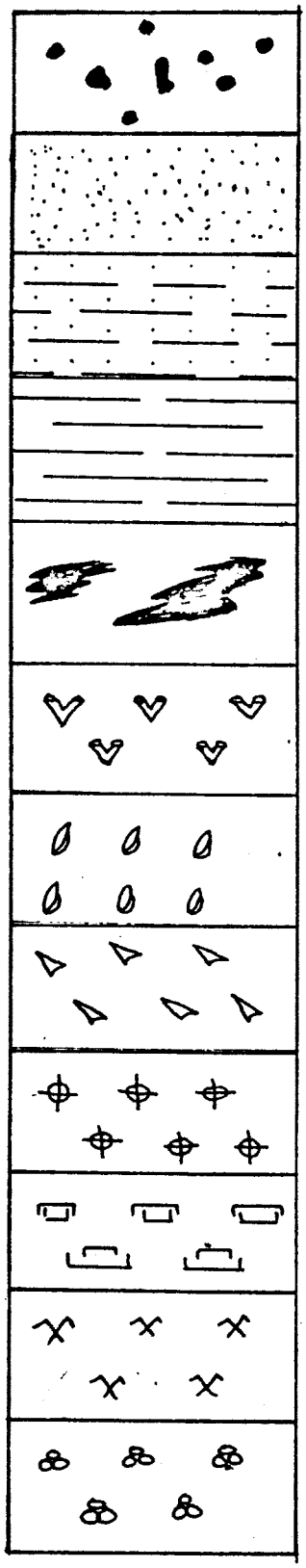
Tc-e Turbidite with foresets → parallel lamination → no visible structure

Td-e Turbidite with parallel lamination → no visible structure

Stringers

MGG 09005064

LEGEND



CORE RADIOGRAPH DESCRIPTION SHEET

NAVOCEANO-EXP-3167/108 (12-70)

MCG 0 9 0 0 5 0 6 4

SAMPLE NO. SA - 1A LOCATION: St. Andrew Bay SAMPLER TYPE: HYG

LATITUDE 30 ° 09' 59.0" N WATER DEPTH (M): 12.8

LONGITUDE 85 ° 42' 43.0" W CORE LENGTH (CM): 206

DATE CORED (D,M,Y): 7-1-75 CORE PENETRATION (CM): -

LOGGED BY: Stiles + Ross ITEM NO: 484 DATE LOGGED IN (D,M,Y): 12-1-75

REMARKS: (bedding, shells, structures, mottling, disturbance, etc.)	DEPTH (CM)	CORE SKETCH	SAMPLE INTERVAL	TEST: SOUND VEL.	SHEAR STREN.	MOIST. CONT.	SIZE	$CaCO_3$	REF.
0-17: Disturbed Sediment-liner interface voids	0	"VOIDS"							
	10								
17-43: Faint to strong mottling. Shells and fragments present (0.5 cm) in quantities to 2%.	20								
Shells:				25					
Shell Fragments:	30								
Very faint and irregular contact. No density change			30-40	35	✓	✓	✓	-	✓
	40								
				45					
43-bottom: wispy stringers of high density materials.	50								
Wispy effect is probably due to bioturbation.			50-60	55	✓	✓	✓	-	✓
	60								
				65					
	70								
74-87: Possible disturbance (sediment-liner interface voids)	80	VOID							
	90								
95-bottom: Scattered shells (0.5-1.0 cm) Less than 5%			90-100	95	✓	✓	✓	-	✓
	100								

CORE RADIOGRAPH DESCRIPTION SHEET

NAVOCEANO-EXP-3167/108 (12-70)

10

SAMPLE NO. SA-1A LOCATION: St. Andrew Bay SAMPLER TYPE: HYG

LATITUDE 30 °09'59.0"N WATER DEPTH (M): 12.8

LONGITUDE 85 °42'43.0"W CORE LENGTH (CM): 206

DATE CORED (D,M,Y): 7-1-75 CORE PENETRATION (CM): –

LOGGED BY: Stiles + Ross ITEM NO: 484 DATE LOGGED IN (D,M,Y): 12-1-75

REMARKS: (bedding, shells, structures, mottling, disturbance, etc.)	DEPTH (CM)	CORE SKETCH	SAMPLE INTERVAL	TEST: SOUND VEL.	SHEAR STREN.	MOIST. CONT.	SIZE	$CaCO_3$	REF.		
	~~100~~										
				105							
	110										
				115							
	120										
				125							
	130										
			130-140	135	✓	✓	✓	–	✓		
	140										
				145							
Larger shells and fragments located at: 148cm (1-2cm dia) 156cm (3-5cm dia) 188 cm (5-7 cm)	150										
				155							
	160										
				165							
	170										
			170-180	175	✓	✓	✓	–	✓		
	180										
				185							
	190										
	200										

CORE RADIOGRAPH DESCRIPTION SHEET

NAVOCEANO-EXP-3167/108 (12-70)

SAMPLE NO. SA-1A LOCATION: St. Andrew Bay SAMPLER TYPE: HYG

LATITUDE 30 ° 09' 59.0 " N WATER DEPTH (M): 12.8

LONGITUDE 85 ° 42' 43.0 " W CORE LENGTH (CM): 206

DATE CORED (D,M,Y): 7-1-75 CORE PENETRATION (CM): –

LOGGED BY: Stiles + Ross ITEM NO: 484 DATE LOGGED IN (D,M,Y): 12-1-75

REMARKS: (bedding, shells, structures, mottling, disturbance, etc.)	DEPTH (CM)	CORE SKETCH	SAMPLE INTERVAL	TEST: SOUND VEL.	SHEAR STREN.	MOIST. CONT.	SIZE	$CaCO_3$	REF.		
	200										
		206									
	10										
	20										
	30										
	40										
	50										
	60										
	70										
	80										
	90										
	00										

CORE DESCRIPTION SHEET

NAVOCEANO-3167 03 (3-68)

SAMPLE NO. SA-1A LOCATION: St. Andrew Bay SAMPLER TYPE: HYG

LATITUDE 30 °09'59.0 "N WATER DEPTH (M): 12.8

LONGITUDE 85 °42'43.0 "W CORE LENGTH (CM): 206

DATE CORED (D,M,Y): 7-1-75 CORE PENETRATION (CM): -

LOGGED BY: Stiles + Ross ITEM NO: 484 DATE LOGGED IN (D,M,Y): 12-1-75

REMARKS: (Odor, bedding, shells, structures, mottling, disturbance, etc.)	DEPTH (CM)	CORE SKETCH	COLOR (GSA)	LAB. NO.	SAMPLE INTERVAL (CM)	SEDIMENT TYPE (Visual)
0-30: Disturbed. Sediment liner interface voids	0		5Y3/2			Silty Clay
	10	"Disturbed"				
	20					
30-50: Homogeneous and very soft. A few scattered fine shell fragments with a trace of sand. Shell and Shell fragments Stringer	30			484-1	30-40	
	40					
50-60: Homogeneous and very soft. A few scattered fine shell fragments with a trace of sand.	50			484-2	50-60	
60-90: Several irregular and indistinct sandy stringers.	60					
90-170: Very subtle changes. Material is mostly same as above	70					
	80					
	90			484-3	90-100	Silty Clay
	100		5Y3/2			

CORE DESCRIPTION SHEET

NAVOCEANO-3167 03 (3-68)

J.A.A. 005064 13

SAMPLE NO. SA-1A LOCATION: St. Andrew Bay SAMPLER TYPE: HYG

LATITUDE 30 °09'59.0 "N WATER DEPTH (M): 12.8

LONGITUDE 85 °42' 43.0"W CORE LENGTH (CM): 206

DATE CORED (D,M,Y): 7-1-75 CORE PENETRATION (CM): –

LOGGED BY: Stiles + Ross ITEM NO: 484 DATE LOGGED IN (D,M,Y): 12-1-75

REMARKS: (Odor, bedding, shells, structures, mottling, disturbance, etc.)	DEPTH (CM)	CORE SKETCH	COLOR (GSA)	LAB. NO.	SAMPLE INTERVAL (CM)	SEDIMENT TYPE (Visual)
30 - bottom: Generally this core has a matrix of soft silty clay with numerous sandy or silty stringers scattered throughout plus numerous small shells and shell fragments	100		5Y3/2			Silty Clay
	110					
	120					
	130					
				484-4	130-140	
	140					
	150					
	160					
170 - bottom of core: homogeneous material with numerous small shell fragments (<5%) Above homogeneous material is silty or fine sandy clay	170					silty to Sandy clay
				484-5	170-180	
	180					
	190					
	200		5Y3/2			

CORE DESCRIPTION SHEET

NAVOCEANO-3167 (3-68)

SAMPLE NO. SA-1A LOCATION: St. Andrew Bay SAMPLER TYPE: HYG

LATITUDE 30° 09' 59.0" N WATER DEPTH (M): 12.8

LONGITUDE 85° 42' 43.0" W CORE LENGTH (CM): 206

DATE CORED (D,M,Y): 7-1-75 CORE PENETRATION (CM): –

LOGGED BY: Stiles + Ross ITEM NO: 484 DATE LOGGED IN (D,M,Y): 12-1-75

REMARKS: (Odor, bedding, shells, structures, mottling, disturbance, etc.)	DEPTH (CM)	CORE SKETCH	COLOR (GSA)	LAB. NO.	SAMPLE INTERVAL (CM)	SEDIMENT TYPE (Visual)
		6 6	5Y 3/2			Silty to Sandy Clay
		206				
	10					
	20					
	30					
	40					
	50					
	60					
	70					
	80					
	90					
	00					

CORE RADIOGRAPH DESCRIPTION SHEET

NAVOCEANO-EXP-3167/108 (12-70)

SAMPLE NO. SA-2A LOCATION: St. Andrew Bay SAMPLER TYPE: HYG

LATITUDE 30° 10' 01.5" N WATER DEPTH (M): 12.8

LONGITUDE 85° 42' 43.0" W CORE LENGTH (CM): 223

DATE CORED (D,M,Y): 7-1-75 CORE PENETRATION (CM): –

LOGGED BY: Stiles + Ross ITEM NO: 484 DATE LOGGED IN (D,M,Y): 11-1-75

REMARKS: (bedding, shells, structures, mottling, disturbance, etc.)	DEPTH (CM)	CORE SKETCH	SAMPLE INTERVAL	TEST: SOUND VEL.	SHEAR STREN.	MOIST. CONT.	SIZE	$CaCO_3$	REF.	Org. C
	0									
0-20: Disturbed zone of high and low density materials	10	Low High "Disturbed" low								
20-30: Higher density than above. Faint wispy structure with some shell fragments (less than 0.5cm dia) No apparent contact	20		20-30	25	✓	✓	✓	✓		✓
30-120: Wispy, High density stringers very few shell fragments. Matrix is slightly lower density than above. Wispy stringers ∫ are probably due to bioturbation. Decrease only in number of stringers marks this contact	30			35						
	40			45						
	50		50-60	55	✓	✓	✓	✓	✓	✓
	60			65						
	70			75						
	80		80-90	85	✓	✓	✓	✓		✓
	90			95						
	100									

CORE RADIOGRAPH DESCRIPTION SHEET

NAVOCEANO-EXP-3167/108 (12-70)

SAMPLE NO. SA-2A LOCATION: St. Andrew Bay SAMPLER TYPE: HYG

LATITUDE 30 °10' 01.5 "N WATER DEPTH (M): 12.8

LONGITUDE 85 °42' 43.0" W CORE LENGTH (CM): 223

DATE CORED (D,M,Y): 7-1-75 CORE PENETRATION (CM): –

LOGGED BY: Stiles + Ross ITEM NO: 484 DATE LOGGED IN (D,M,Y): 11-1-75

REMARKS: (bedding, shells, structures, mottling, disturbance, etc.)	DEPTH (CM)	CORE SKETCH	SAMPLE INTERVAL	TEST: SOUND VEL.	SHEAR STREN.	MOIST. CONT.	SIZE	$CaCO_3$	REF.	org. C.
	100									
				105						
	110									
			110-120	115	✓	✓	✓	✓	✓	✓
	120									
120-140: Lesser concentration of wispy structures. Increase only in number of wispy stringers marks contact.				125						
	130									
			130-140	135	✓	✓	✓	✓	✓	✓
140-180: Wispy high density stringers. Few shells or shell fragments. Slight increase in shell fragments marks this apparent contact. Less than 2% fragments 1-5mm dia.	140									
				145						
	150									
				155						
	160									
			160-170	165	✓	✓	✓	✓		✓
	170									
				175						
180-220 Wispy high density stringers. Scattered shells (0.5cm to 1.0cm dia) concentration of shell fragments increases over this interval. ≈10%	180									
				185						
	190									
			190-200	195	✓	✓	✓	✓	✓	✓
	200									

CORE RADIOGRAPH DESCRIPTION SHEET

NAVOCEANO-EXP-3167/108 (12-70)

SAMPLE NO. SA-2A LOCATION: St. Andrew Bay SAMPLER TYPE: HYG

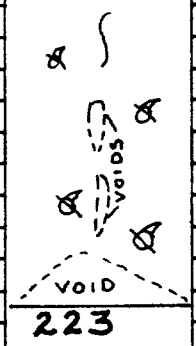
LATITUDE 30 °10' 01.5 "N WATER DEPTH (M): 12.8

LONGITUDE 85 °42' 43.0" W CORE LENGTH (CM): 223

DATE CORED (D,M,Y): 7-1-75 CORE PENETRATION (CM): –

LOGGED BY: Stiles + Ross ITEM NO: 484 DATE LOGGED IN (D,M,Y): 11-1-75

REMARKS: (bedding, shells, structures, mottling, disturbance, etc.)	DEPTH (CM)	CORE SKETCH	SAMPLE INTERVAL	TEST: SOUND VEL.	SHEAR STREN.	MOIST. CONT.	SIZE	$CaCO_3$	REF.
	200								
				205					
	210								
210-220: Thin, vertical voids				215					
	220								
220-223: Void caused by removal of core catcher.									
	30								
	40								
	50								
	60								
	70								
	80								
	90								
	00								



CORE DESCRIPTION SHEET

NAVOCEANO-3167-03 (3-68)

SAMPLE NO. SA-2A LOCATION: St. Andrew Bay SAMPLER TYPE: HYG

LATITUDE 30° 10' 01.5" N WATER DEPTH (M): 12.8

LONGITUDE 85° 42' 43.0" W CORE LENGTH (CM): 223

DATE CORED (D,M,Y): 7-1-75 CORE PENETRATION (CM): –

LOGGED BY: Stiles + Ross ITEM NO: 484 DATE LOGGED IN (D,M,Y): 11-1-75

REMARKS: (Odor, bedding, shells, structures, mottling, disturbance, etc.)	DEPTH (CM)	CORE SKETCH	COLOR (GSA)	LAB. NO.	SAMPLE INTERVAL (CM)	SEDIMENT TYPE (Visual)
Except for minor Variations in amount of sand and silt is mainly homogeneous	0		5Y3/2			Silty Clay
0-30: Structureless and very soft.	10					
	20			484-6	20-30	
30-50: Less soft and slightly more cohesive than above. No distinct contact.	30					
50-98: Homogeneous as above but with trace of sand and scattered fine shell fragments	40					
Shell fragments						
	50			484-7	50-60	
	60					
	70					
	80			484-8	80-90	
	90					
98-100: Pockets of silt and sand. No distinct contact.	100		5Y3/2			Silty Clay

CORE DESCRIPTION SHEET

NAVOCEANO-3167 03 (3-68)

SAMPLE NO. SA-2A LOCATION: St. Andrew Bay SAMPLER TYPE: HYG

LATITUDE 30 °10'01.5"N WATER DEPTH (M): 12.8

LONGITUDE 85 °42'43.0"W CORE LENGTH (CM): 223

DATE CORED (D,M,Y): 7-1-75 CORE PENETRATION (CM): –

LOGGED BY: Stiles + Ross ITEM NO: 484 DATE LOGGED IN (D,M,Y): 11-1-75

REMARKS: (Odor, bedding, shells, structures, mottling, disturbance, etc.)	DEPTH (CM)	CORE SKETCH	COLOR (GSA)	LAB. NO.	SAMPLE INTERVAL (CM)	SEDIMENT TYPE (Visual)
	100		5Y3/2			
100-223: Slight increase in sand and shell fragments. <5% shell fragments are scattered through this interval.						Silty Clay
	110					
				484-9	110-120	
	120					
	130					
				484-10	130-140	
	140					
	150					
	160					
				484-11	160-170	
	170					
	180					
	190					
			5Y3/2	484-12	190-200	Silty Clay
	200					

CORE DESCRIPTION SHEET

NAVOCEANO-3167 (3-68)

SAMPLE NO. SA-2A LOCATION: St. Andrew Bay SAMPLER TYPE: HYG

LATITUDE 30 °10'01.5"N WATER DEPTH (M): 12.8

LONGITUDE 85 °42'43.0"W CORE LENGTH (CM): 223

DATE CORED (D,M,Y): 7-1-75 CORE PENETRATION (CM): –

LOGGED BY: Stiles + Ross ITEM NO: 484 DATE LOGGED IN (D,M,Y): 11-1-75

REMARKS: (Odor, bedding, shells, structures, mottling, disturbance, etc.)	DEPTH (CM)	CORE SKETCH	COLOR (GSA)	LAB. NO.	SAMPLE INTERVAL (CM)	SEDIMENT TYPE (Visual)
	200		5Y3/2			Silty Clay
	210					
	220					
		223				
	230					
	40					
	50					
	60					
	70					
	80					
	90					
	00					

CORE RADIOGRAPH DESCRIPTION SHEET

NAVOCEANO-EXP-3167/108 (12-70)

SAMPLE NO. SA-3A LOCATION: St. Andrew Bay SAMPLER TYPE: HYG

LATITUDE 30 °09' 58.5"N WATER DEPTH (M): 12.8

LONGITUDE 85 °42' 46.0"W CORE LENGTH (CM): 175

DATE CORED (D,M,Y): 7-1-75 CORE PENETRATION (CM): –

LOGGED BY: Stiles + Ross ITEM NO: 484 DATE LOGGED IN (D,M,Y): 9-1-75

REMARKS: (bedding, shells, structures, mottling, disturbance, etc.)	DEPTH (CM)	CORE SKETCH	SAMPLE INTERVAL	TEST: SOUND VEL.	SHEAR STREN.	MOIST. CONT.	SIZE	$CaCO_3$	REF.
This core sample has disturbance features marking most of the length of the liner, and appears to be sediment-liner interface voids. The only data on this core is this radiograph and sound velocity measurements.	0								
				5					
	10								
				15					
	20								
				25					
0-42/43: High and Low density, wispy stringers probably the result of bio-turbation. Faint contact between a low density stringer and a zone of high density non-particulate matter.	30								
				35					
	40								
		High Density		45					
42/43-52: Higher density material in this zone. Some wispy features in this zone but they are not as prevalent as above and below. No real contact.	50	High Density							
				55					
	60								
				65					
52-135/140: No apparent density change. Similar wispy structure as noted in above interval (0-42/43). Less than 1% 1-5mm dia fragments	70								
				75					
78-83: Large shell (≈5cm x 3cm). Sample disturbed at contact	80								
		←--Cut--→		85					
Core cut at 85 cm for return shipment to NAVOCEANO Geology Laboratory	90								
				95					
	100								

22

CORE RADIOGRAPH DESCRIPTION SHEET

NAVOCEANO-EXP-3167/108 (12-70)

009005064

SAMPLE NO. SA-3A LOCATION: St. Andrew Bay SAMPLER TYPE: HYG

LATITUDE 30 ° 09'58.5" N WATER DEPTH (M): 12.8

LONGITUDE 85 ° 42'46.0" W CORE LENGTH (CM): 175

DATE CORED (D,M,Y): 7-1-75 CORE PENETRATION (CM): -

LOGGED BY: Stiles + Ross ITEM NO: 484 DATE LOGGED IN (D,M,Y): 9-1-75

REMARKS: (bedding, shells, structures, mottling, disturbance, etc.)	DEPTH (CM)	CORE SKETCH	SAMPLE INTERVAL	TEST: SOUND VEL.	SHEAR STREN.	MOIST. CONT.	SIZE	$CaCO_3$	REF.		
	100										
				105							
	110										
				115							
	120										
				125							
	130										
135/140-175 : Highly disturbed. Both horizontal and vertical fissures may be observed This interval may be similar to above, but fractures and sediment-interface voids mask out most features				135							
	140	VOID									
		VOID									
	150										
	160	VOID									
	170										
		175									
	80										
	90										
	00										

CORE RADIOGRAPH DESCRIPTION SHEET

NAVOCEANO-EXP-3167/108 (12-70)

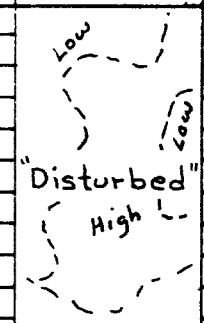
SAMPLE NO. SA-4A LOCATION: St. Andrew Bay SAMPLER TYPE: HYG

LATITUDE 30 °09.59.0"N WATER DEPTH (M): 12.8

LONGITUDE 85 °42'40.0"W CORE LENGTH (CM): 223

DATE CORED (D,M,Y): 7-1-75 CORE PENETRATION (CM): –

LOGGED BY: Stiles + Ross ITEM NO: 484 DATE LOGGED IN (D,M,Y): 9-1-75

REMARKS: (bedding, shells, structures, mottling, disturbance, etc.)	DEPTH (CM)	CORE SKETCH	SAMPLE INTERVAL	TEST: SOUND VEL.	SHEAR STREN.	MOIST. CONT.	SIZE	$CaCO_3$	REF.
0-19: Disturbed Zone of high and low density materials	0								
	10								
19-142: Wispy high density stringers with a few (<0.5cm dia) shell fragments (continued below)	20		20-30	25	✓	✓			
No Core Description Sheet. To determine if any sampling disturbance occurred, the vane was inserted directly into the core barrel. The visual sediment type was silty clay and the color was 5Y 3/2. See cores SA-1A and SA-2A, also from Area "A"	30			35					
	40								
	50			45					
			50-60		✓	✓			
				55					
Cont. 19-142: wispy stringers probably the result of Bioturbation (See cores SA1, SA-2, and SA-3). Decrease only in number of stringers marks this contact (See SA-2A @ 120cm)	60								
				65					
	70								
				75					
	80								
			80-90	85	✓	✓			
	90								
				95					
	100								

CORE RADIOGRAPH DESCRIPTION SHEET

NAVOCEANO-EXP-3167/108 (12-70)

24

SAMPLE NO. SA-4A LOCATION: St Andrew Bay SAMPLER TYPE: HYG

LATITUDE 30 °09'59.0" N WATER DEPTH (M): 12.8

LONGITUDE 85 °42'40.0" W CORE LENGTH (CM): 223

DATE CORED (D,M,Y): 7-1-75 CORE PENETRATION (CM): –

LOGGED BY: Stiles + Ross ITEM NO: 484 DATE LOGGED IN (D,M,Y): 9-1-75

REMARKS: (bedding, shells, structures, mottling, disturbance, etc.)	DEPTH (CM)	CORE SKETCH	SAMPLE INTERVAL	TEST: SOUND VEL.	SHEAR STREN.	MOIST. CONT.	SIZE	$CaCO_3$	REF.
	100								
	10		110-120		✓	✓			
	20								
	30								
142-149: This interval is marked only due to a decrease in the high density wispy stringers as seen in 19-142 cm. Indistinct contact marked by an increase in wispy stringers.	40		140-150		✓	✓			
	50								
149-223: Similar high density wispy stringers as 19-142 At 156-192 cm, there are <1% shell fragments At 192-223, concentration of shell fragments increase to ≈5% No structural contact is observed where shell concentration increases	60		160-170		✓	✓			
	70								
	80								
	90		190-200		✓	✓			
	200								

CORE RADIOGRAPH DESCRIPTION SHEET

NAVOCEANO-EXP-3167/108 (12-70)

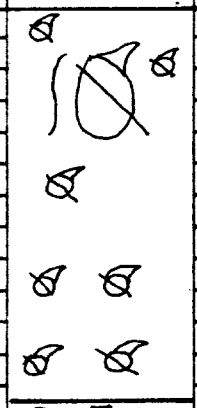
SAMPLE NO. SA-4A LOCATION: St. Andrew Bay SAMPLER TYPE: HYG

LATITUDE 30 °09'59.0"N WATER DEPTH (M): 12.8

LONGITUDE 85 °42'40.0"W CORE LENGTH (CM): 223

DATE CORED (D,M,Y): 7-1-75 CORE PENETRATION (CM): –

LOGGED BY: Stiles + Ross ITEM NO: 484 DATE LOGGED IN (D,M,Y): 9-1-75

REMARKS: (bedding, shells, structures, mottling, disturbance, etc.)	DEPTH (CM)	CORE SKETCH	SAMPLE INTERVAL	TEST: SOUND VEL.	SHEAR STREN.	MOIST. CONT.	SIZE	$CaCO_3$	REF.
	200								
205-209: Large coarse shell fragments (2-4cm dia)	210								
	220								
		223							
	30								
	40								
	50								
	60								
	70								
	80								
	90								
	00								

CORE RADIOGRAPH DESCRIPTION SHEET

NAVOCEANO-EXP-3167/108 (12-70)

SAMPLE NO. SA -5B LOCATION: St. Andrew Bay SAMPLER TYPE: HYG

LATITUDE 30 °08' 54.0 "N WATER DEPTH (M): 12.8

LONGITUDE 85 °40' 41.0 "W CORE LENGTH (CM): 215

DATE CORED (D,M,Y): 7-1-75 CORE PENETRATION (CM): –

LOGGED BY: Stiles + Ross ITEM NO: 484 DATE LOGGED IN (D,M,Y): 9-1-75

REMARKS: (bedding, shells, structures, mottling, disturbance, etc.)	DEPTH (CM)	CORE SKETCH	SAMPLE INTERVAL	TEST: SOUND VEL.	SHEAR STREN.	MOIST. CONT.	SIZE	$CaCO_3$	REF.		
	0										
0-20: Disturbed Zone of high and low density materials, also sediment-liner interface voids	10	Low Density; Low; High Density "Disturbed"; Low									
20-74: Density of material in this interval is same as high density zones above. Very faint mottling & present and <1% shell or shell fragments. This interval is mainly homogeneous. Shell fragments range from 1-5 mm. Faint contact with higher density material.	20										
				25							
	30										
			30-40	35	✓	✓	✓	–	✓		
	40										
				45							
	50										
			50-60		✓	✓	✓	–	✓		
				55							
	60										
				65							
	70		70-80		✓	✓	✓	–	✓		
74-215: Higher density materials in this interval. Numerous shells and shell fragments in this lower interval. Also, there is a greater concentration of wispy stringers due probably to bioturbation. Shells and shell fragments range from 0.5 to 5.0 cm	80			75							
				85							
	90										
				95							
	100										
concentration of											

CORE RADIOGRAPH DESCRIPTION SHEET

NAVOCEANO-EXP-3167/108 (12-70)

SAMPLE NO. SA-5B LOCATION: St. Andrew Bay SAMPLER TYPE: HYG

LATITUDE 30 ° 08'54.0" N WATER DEPTH (M): 12.8

LONGITUDE 85 ° 40'41.0" W CORE LENGTH (CM): 215

DATE CORED (D,M,Y): 7-1-75 CORE PENETRATION (CM): –

LOGGED BY: Stiles + Ross ITEM NO: 484 DATE LOGGED IN (D,M,Y): 9-1-75

REMARKS: (bedding, shells, structures, mottling, disturbance, etc.)	DEPTH (CM)	CORE SKETCH	SAMPLE INTERVAL	TEST: SOUND VEL.	SHEAR STREN.	MOIST. CONT.	SIZE	$CaCO_3$	REF.		
shells increase with depth or ≈5% at 74 cm to ≈25% at 160 cm.	100										
				105							
	110										
			110-120	115	✓	✓	✓	–	✓		
	120										
				125							
	130										
				135							
	140										
			145-155	145	✓	✓	✓	–	✓		
	150										
				155							
160-bottom: Increase in concentration of shell fragments. (≈25%)	160										
165-171: Large shell											
	170										
			175-185	175	✓	✓	✓	–	✓		
	180										
				185							
	190										
198-200: 2 cm shell											
	200										

CORE RADIOGRAPH DESCRIPTION SHEET

NAVOCEANO-EXP-3167/108 (12-70)

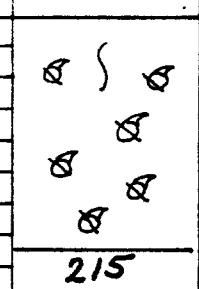
SAMPLE NO. SA-5B LOCATION: St. Andrew Bay SAMPLER TYPE: HYG

LATITUDE 30 °08'54.0"N WATER DEPTH (M): 12.8

LONGITUDE 85 °40'41.0"W CORE LENGTH (CM): 215

DATE CORED (D,M,Y): 7-1-75 CORE PENETRATION (CM): –

LOGGED BY: Stiles + Ross ITEM NO: 484 DATE LOGGED IN (D,M,Y): 9-1-75

REMARKS: (bedding, shells, structures, mottling, disturbance, etc.)	DEPTH (CM)	CORE SKETCH	SAMPLE INTERVAL	TEST: SOUND VEL.	SHEAR STREN.	MOIST. CONT.	SIZE	$CaCO_3$	REF.		
	200										
			200-210	205	✓	✓	✓	–	✓		
	10										
		215									
	20										
	30										
	40										
	50										
	60										
	70										
	80										
	90										
	00										

CORE DESCRIPTION SHEET

NAVOCEANO-3167 (03 (3-68)

SAMPLE NO. SA-5B LOCATION: St. Andrew Bay SAMPLER TYPE: HYG

LATITUDE 30 °08'54.0"N WATER DEPTH (M): 12.8

LONGITUDE 85 °40'41.0"W CORE LENGTH (CM): 215

DATE CORED (D,M,Y): 7-1-75 CORE PENETRATION (CM): –

LOGGED BY: Stiles + Ross ITEM NO: 484 DATE LOGGED IN (D,M,Y): 11-1-75

REMARKS: (Odor, bedding, shells, structures, mottling, disturbance, etc.)	DEPTH (CM)	CORE SKETCH	COLOR (GSA)	LAB. NO.	SAMPLE INTERVAL (CM)	SEDIMENT TYPE (Visual)
	0		5Y3/2			
0-20: Disturbed, very soft and homogeneous		DISTURBED				Silty Cla
	10					
	20					
20-70: Homogeneous, soft silty clay. No perceptible contact. Trace of sand or fine shell fragments						
	30			30-40	484-13	
	40					
	50			50-60	484-14	
	60					
	70			70-80	484-15	
70-110: This interval is marked by a slight increase ≈ 1-5% shells and shell fragments. The matrix is same as above, i.e., soft silty clay. Indistinct contact.						
	80					
Shells and shell fragments .1-1.0cm:	90					
	100		5Y3/2			Silty Clay

CORE DESCRIPTION SHEET

NAVOCEANO-3167 03 (3-68)

09005061

SAMPLE NO. SA-5B LOCATION: St. Andrew Bay SAMPLER TYPE: HYG

LATITUDE 30 °08' 54.0"N WATER DEPTH (M): 12.8

LONGITUDE 85 °40' 41.0 "W CORE LENGTH (CM): 215

DATE CORED (D,M,Y): 7-1-75 CORE PENETRATION (CM): –

LOGGED BY: Stiles + Ross ITEM NO: 484 DATE LOGGED IN (D,M,Y): 11-1-75

REMARKS: (Odor, bedding, shells, structures, mottling, disturbance, etc.)	DEPTH (CM)	CORE SKETCH	COLOR (GSA)	LAB. NO.	SAMPLE INTERVAL (CM)	SEDIMENT TYPE (Visual)
	100		5Y3/2			Silty Clay
110-210: Texturally similar to above but more consistent and dense. Also more shell fragments (≈5% + 1-2 mm in dia.) silty clay with a trace of sand	110			484-16	110-120	
	120					
	130					
	140			484-17	145-155	
	150					
	160					
165-171: Large shell:	170			484-18	175-185	
	180					
	190					
	200		5Y3/2			Silty Cla

CORE DESCRIPTION SHEET

NAVOCEANO-3167 03 (3-68)

SAMPLE NO. SA-5B LOCATION: St. Andrew Bay SAMPLER TYPE: HYG

LATITUDE 30 °08' 54.0" N WATER DEPTH (M): 12.8

LONGITUDE 85 °40' 41.0" W CORE LENGTH (CM): 215

DATE CORED (D,M,Y): 7-1-75 CORE PENETRATION (CM): –

LOGGED BY: Stiles + Ross ITEM NO: 484 DATE LOGGED IN (D,M,Y): 11-1-75

REMARKS: (Odor, bedding, shells, structures, mottling, disturbance, etc.)	DEPTH (CM)	CORE SKETCH	COLOR (GSA)	LAB. NO.	SAMPLE INTERVAL (CM)	SEDIMENT TYPE (Visual)
	200		5Y3/2			Silty Clay
				484-19	200-210	
210-215: Similar silt clay matrix as above but slight increase in concentration of shells and shell fragments	210					
		215				
	20					
	30					
	40					
	50					
	60					
	70					
	80					
	90					
	00					

CORE RADIOGRAPH DESCRIPTION SHEET

NAVOCEANO-EXP-3167/108 (12-70)

SAMPLE NO. SA-6B LOCATION: St. Andrew Bay SAMPLER TYPE: HYG

LATITUDE 30 °08'52.0"N WATER DEPTH (M): 12.8

LONGITUDE 85 °40'43.0"W CORE LENGTH (CM): 184

DATE CORED (D,M,Y): 7-1-75 CORE PENETRATION (CM):

LOGGED BY: Stiles + Ross ITEM NO: 484 DATE LOGGED IN (D,M,Y): 9-1-75

REMARKS: (bedding, shells, structures, mottling, disturbance, etc.)	DEPTH (CM)	CORE SKETCH	SAMPLE INTERVAL	TEST: SOUND VEL.	SHEAR STREN.	MOIST. CONT.	SIZE	$CaCO_3$	REF.
0-14: Sediment-Liner interface Voids	0	VOID							
				5					
	10	VOID							
14-50: No density change. One large sediment-liner interface void at 34-38 cm (see sketch) and several smaller voids (not sketched) in this interval. Burrows observed at 19-22 cm. This interval is mainly homogeneous with faint mottling less than 1% shell fragments. Contact is very faint.				15					
	20								
				25					
	30								
		VOID		35					
	40								
				45					
	50								
50-130: Slightly higher density than above. Slight mottling as above with a moderate amount <5% shell fragments 0.5-1.0 cm dia.				55					
	60								
				65					
Shell fragments ranging from 2-4 cm occur at 74-75 cm 84-92 cm.	70								
	80			80					
This core was cut in half at 92 cm and shipped to NAVOCEANO Geology Laboratory	90	CUT							
	100								

CORE RADIOGRAPH DESCRIPTION SHEET

NAVOCEANO-EXP-3167/108 (12-70)

SAMPLE NO. SA-6B LOCATION: St. Andrew Bay SAMPLER TYPE: HYG

LATITUDE 30° 08'52.0"N WATER DEPTH (M): 12.8

LONGITUDE 85° 40'43.0"W CORE LENGTH (CM): 184

DATE CORED (D,M,Y): 7-1-75 CORE PENETRATION (CM): –

LOGGED BY: Stiles + Ross ITEM NO: 484 DATE LOGGED IN (D,M,Y): 9-1-75

REMARKS: (bedding, shells, structures, mottling, disturbance, etc.)	DEPTH (CM)	CORE SKETCH	SAMPLE INTERVAL	TEST: SOUND VEL.	SHEAR STREN.	MOIST. CONT.	SIZE	$CaCO_3$	REF.
No strength tests performed on this core.	100								
				115					
	10								
	20			125					
130-159: Slightly higher density than above Increase in concentration of 0.5-1.0 cm shells and shell fragments ≈5-10 %	30			135					
	40								
146-159: Vertical band of shells	50			145					
159-184: Not radiographed	60								
	70								
	80								
		184							
	90								
	00								

CORE RADIOGRAPH DESCRIPTION SHEET

NAVOCEANO-EXP-3167/108 (12-70)

SAMPLE NO. SA-78 LOCATION: St. Andrew Bay SAMPLER TYPE: HYG

LATITUDE 30 °08'54.0"N WATER DEPTH (M): 12.8

LONGITUDE 85 °40'37.0"W CORE LENGTH (CM): 217

DATE CORED (D,M,Y): 7-1-75 CORE PENETRATION (CM): –

LOGGED BY: Stiles + Ross ITEM NO: 484 DATE LOGGED IN (D,M,Y): 9-1-75

REMARKS: (bedding, shells, structures, mottling, disturbance, etc.)	DEPTH (CM)	CORE SKETCH	SAMPLE INTERVAL	TEST: SOUND VEL.	SHEAR STREN.	MOIST. CONT.	SIZE	$CaCO_3$	REF.	org C.
0-20: Faint wispy texture. Stringers are higher density than matrix. Stringer comprise Less than 5% of interval. Less than 1% shell fragments (1mm - 5mm dia). Faint contact of above wispy stringers overlying a mostly homogeneous interval	0									
	10		10-20	15	✓	✓	✓	✓	✓	✓
	20			25						
20-62: No density change with above interval. Sediment is primarily homogeneous with Less than 1% stringers and shell fragments. Distinct and irregular contact.	30									
	40		40-50	45	✓	✓	✓	✓	✓	✓
	50			35						
	60			55						
62-217: wispy stringers of higher density than above material. Shell and fragments comprise ≈ 5-10% of interval with a slight increase with depth. The majority of the shells range from 2-5mm dia. Larger shells are noted below.	70			65						
	80		70-80	75	✓	✓	✓	✓	✓	✓
	90			85						
	100			95						

CORE RADIOGRAPH DESCRIPTION SHEET

NAVOCEANO-EXP-3167/108 (12-70)

SAMPLE NO. SA-7B LOCATION: St. Andrew Bay SAMPLER TYPE: HYG

LATITUDE 30 °08'54.0"N WATER DEPTH (M): 12.8

LONGITUDE 85 °40'37.0"W CORE LENGTH (CM): 217

DATE CORED (D,M,Y): 7-1-75 CORE PENETRATION (CM): –

LOGGED BY: Stiles + Ross ITEM NO: 484 DATE LOGGED IN (D,M,Y): 9-1-75

REMARKS: (bedding, shells, structures, mottling, disturbance, etc.)	DEPTH (CM)	CORE SKETCH	SAMPLE INTERVAL	TEST: SOUND VEL.	SHEAR STREN.	MOIST. CONT.	SIZE	$CaCO_3$	REF.	org c.
	100									
			100-110	105	✓	✓	✓	✓	✓	✓
	110									
116-126: Large shell fragments (2-4 cm dia)				115						
	120									
130-140: Sediment-liner interface Voids	130	Void								
				135						
	140									
140-bottom: 5-10% shell fragments			140-150	145	✓	✓	✓	✓	✓	✓
	150									
				155						
	160									
				165						
	170									
			175-185		✓	✓	✓	✓	✓	✓
				175						
	180									
				185						
	190									
				195						
	200									

CORE RADIOGRAPH DESCRIPTION SHEET

NAVOCEANO-EXP-3167/108 (12-70)

08005084

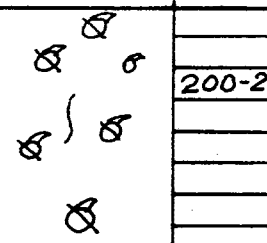
SAMPLE NO. SA-7B LOCATION: St. Andrew Bay SAMPLER TYPE: HYG

LATITUDE 30 °08'54.0"N WATER DEPTH (M): 12.8

LONGITUDE 85 °40'37.0"W CORE LENGTH (CM): 217

DATE CORED (D,M,Y): 7-1-75 CORE PENETRATION (CM): -

LOGGED BY: Stiles + Ross ITEM NO: 484 DATE LOGGED IN (D,M,Y): 9-1-75

REMARKS: (bedding, shells, structures, mottling, disturbance, etc.)	DEPTH (CM)	CORE SKETCH	SAMPLE INTERVAL	TEST: SOUND VEL.	SHEAR STREN.	MOIST. CONT.	SIZE	$CaCO_3$	REF.	org. C.
199-201: 2 cm shell fragments	200									
			200-210	205	✓	✓	✓	✓	✓	✓
	210									
		217		215						
	220									
	30									
	40									
	50									
	60									
	70									
	80									
	90									
	00									

CORE DESCRIPTION SHEET

NAVOCEANO-3167 03 (3-68)

SAMPLE NO. SA-7B LOCATION: St. Andrew Bay SAMPLER TYPE: HYG

LATITUDE 30 °08'54.0"N WATER DEPTH (M): 12.8

LONGITUDE 85 °40'37.0"W CORE LENGTH (CM): 217

DATE CORED (D,M,Y): 7-1-75 CORE PENETRATION (CM): -

LOGGED BY: Stiles + Ross ITEM NO: 484 DATE LOGGED IN (D,M,Y): 13-1-75

REMARKS: (Odor, bedding, shells, structures, mottling, disturbance, etc.)	DEPTH (CM)	CORE SKETCH	COLOR (GSA)	LAB. NO.	SAMPLE INTERVAL (CM)	SEDIMENT TYPE (Visual)
	0		5Y3/2			Silty Clay
0-49: Very soft, homogeneous silty clay. No distinct contact						
	10					
				484-20	10-20	
	20					
	30					
	40					
				484-21	40-50	
49-124: Same silty clay matrix as above but few (<1%) scattered shell and shell fragments (≈1.0 mm dia). An absence of the shell fragments in this interval marks the below contact.	50					
	60					
	70			484-22	70-80	
	80					
	90					
	100		5Y3/2			Silty Clay

CORE DESCRIPTION SHEET

NAVOCEANO-3167 (3-68)

35

SAMPLE NO. SA-7B LOCATION: St. Andrew Bay SAMPLER TYPE: HYG

LATITUDE 30 °08'54.0 "N WATER DEPTH (M): 12.8

LONGITUDE 85 °40'37.0 "W CORE LENGTH (CM): 217

DATE CORED (D,M,Y): 7-1-75 CORE PENETRATION (CM): –

LOGGED BY: Stiles + Ross ITEM NO: 484 DATE LOGGED IN (D,M,Y): 13-1-75

REMARKS: (Odor, bedding, shells, structures, mottling, disturbance, etc.)	DEPTH (CM)	CORE SKETCH	COLOR (GSA)	LAB. NO.	SAMPLE INTERVAL (CM)	SEDIMENT TYPE (Visual)
	100		5Y3/2			Silty Clay
				484-23	100-110	
	110					
	120					
120-124: Large shell ≈4cm long.						
124-140: Homogeneous silty clay. None or very few tiny shell fragments as in above interval.	130					
	140					
140-217: Silty clay with scattered tiny shell fragments throughout interval (≈1%, ≈1mm dia)				484-24	140-150	
	150					
	160					
	170					
				484-25	175-185	
	180					
	190					
	200		5Y3/2			Silty Clay

CORE DESCRIPTION SHEET

NAVOCEANO-3167 03 (3-68)

SAMPLE NO. SA-7B LOCATION: St. Andrew Bay SAMPLER TYPE: HYG

LATITUDE 30 °08' 54.0" N WATER DEPTH (M): 12.8

LONGITUDE 85 °40' 37.0" W CORE LENGTH (CM): 217

DATE CORED (D,M,Y): 7-1-75 CORE PENETRATION (CM): –

LOGGED BY: Stiles + Ross ITEM NO: 484 DATE LOGGED IN (D,M,Y): 13-1-75

REMARKS: (Odor, bedding, shells, structures, mottling, disturbance, etc.)	DEPTH (CM)	CORE SKETCH	COLOR (GSA)	LAB. NO.	SAMPLE INTERVAL (CM)	SEDIMENT TYPE (Visual)
	200		5Y3/2			Silty Clay
				484-26	200-210	
	210					
		217				
	220					
	30					
	40					
	50					
	60					
	70					
	80					
	90					
	00					

CORE RADIOGRAPH DESCRIPTION SHEET

NAVOCEANO-EXP-3167/108 (12-70)

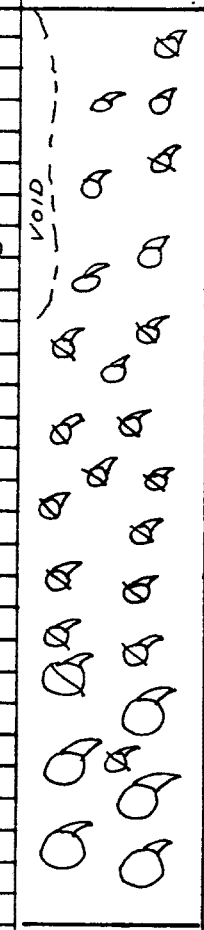
SAMPLE NO. SA-8B LOCATION: St. Andrew Bay SAMPLER TYPE: HYG

LATITUDE 30° 08' 58.0" N WATER DEPTH (M): 12.8

LONGITUDE 85° 40' 40.0" W CORE LENGTH (CM): 58

DATE CORED (D,M,Y): 7-1-75 CORE PENETRATION (CM): –

LOGGED BY: Stiles + Ross ITEM NO: 484 DATE LOGGED IN (D,M,Y): 11-1-75

REMARKS: (bedding, shells, structures, mottling, disturbance, etc.)	DEPTH (CM)	CORE SKETCH	SAMPLE INTERVAL	TEST: SOUND VEL.	SHEAR STREN.	MOIST. CONT.	SIZE	$CaCO_3$	REF.
0-20: Disturbed Large sediment-liner interface voids.	0								
	10								
0-58: Entire core has high concentration of shells and shell fragments									
	20								
				25					
	30								
				35					
	40								
40-58: Large shells (1-5 cm)				45					
	50								
This core was collected slightly out of Test Area "B" requiring another core (SA-11B) to be collected for this project. Only SV measurements and X-radiography were performed. Core SA-8B was not opened.	60	58							
	70								
An attempt to collect another sample in this same general locality resulted in the PVC barrel being shattered.	80								
	90								
	00								

CORE RADIOGRAPH DESCRIPTION SHEET

NAVOCEANO-EXP-3167/108 (12-70)

SAMPLE NO. SA-9 (site 8) LOCATION: St. Andrew Bay SAMPLER TYPE: Hy G

LATITUDE 30° 10' 17.0" N WATER DEPTH (M): 12.8

LONGITUDE 85° 44' 10.0" W CORE LENGTH (CM): 207

DATE CORED (D,M,Y): 9-1-75 CORE PENETRATION (CM): –

LOGGED BY: Stiles + Ross ITEM NO: 484 DATE LOGGED IN (D,M,Y): 14-1-75

REMARKS: (bedding, shells, structures, mottling, disturbance, etc.)	DEPTH (CM)	CORE SKETCH	SAMPLE INTERVAL	TEST: SOUND VEL.	SHEAR STREN.	MOIST. CONT.	SIZE	$CaCO_3$	REF.
0-7: Zone of high and low density material. Definitely Disturbed. Low density or voids (i.e. sediment-interface voids) along majority of the length of this core.	0	"DISTURBED" (Low / High)							
	10								
				15					
	20								
7-94: High density wispy stringers with <5% shell fragments. Fragments are mainly <0.5 cm in dia. Larger shells and fragments are described separately. This interval is composed of mixed high and low density material probably caused by animal activity or bioturbation. Indistinct and faint contact between above features and a higher density shelly interval.			23-33	25	✓	✓	✓	–	✓
	30								
				35					
	40								
				45					
	50								
			50-60	55	✓	✓	✓	–	✓
	60								
				65					
68-75: Large Shell Coring Disturbance	70								
				75					
	80								
			85-95	85	✓	✓	✓	–	✓
	90								
94-162: Slightly higher density than above due to an increase in shell concentration.				95					
	100								

CORE RADIOGRAPH DESCRIPTION SHEET

NAVOCEANO-EXP-3167/108 (12-70)

SAMPLE NO. SA-9 (SA-8) LOCATION: St. Andrew Bay SAMPLER TYPE: HYG

LATITUDE 30 °10'17.0"N WATER DEPTH (M): 12.8

LONGITUDE 85 °44'10.0"W CORE LENGTH (CM): 207

DATE CORED (D,M,Y): 9-1-75 CORE PENETRATION (CM): –

LOGGED BY: Stiles + Ross ITEM NO: 484 DATE LOGGED IN (D,M,Y): 14-1-75

REMARKS: (bedding, shells, structures, mottling, disturbance, etc.)	DEPTH (CM)	CORE SKETCH	SAMPLE INTERVAL	TEST: SOUND VEL.	SHEAR STREN.	MOIST. CONT.	SIZE	$CaCO_3$	REF.
The wispy stringers which were observed in the above section are absent in this interval. Shells and shell fragment comprise ≈ 15% of this interval. with the exception of the larger shells shown in the sketch, The majority of the shells are ≈ 0.5 to 1.0 cm. dia Distinct contact with materials comprising Less shells.	100								
				105					
	110								
				115					
	120								
				125					
	130								
135-139: Large Shell fragments				–					
	140								
			140-150	145	✓	✓	✓	–	✓
	150								
				155					
	160								
162-207: Less dense than above. Homogeneous matrix with ≈ 5% shells and fragments. Size range ≈ 0.5-1.0 cm. in diameter 174-176: Zone of high density shells and shell fragments				165					
	170								
				175					
	180								
				185					
	190		190-200		✓	✓	–	–	–
				195					
	200								

CORE RADIOGRAPH DESCRIPTION SHEET

NAVOCEANO-EXP-3167/108 (12-70)

SAMPLE NO. SA-9 (Site 8) LOCATION: St. Andrew Bay SAMPLER TYPE: HY 6

LATITUDE 30 °10' 17.0 " N WATER DEPTH (M): 12.8

LONGITUDE 85 °44' 10.0 " W CORE LENGTH (CM): 207

DATE CORED (D,M,Y): 9-1-75 CORE PENETRATION (CM): -

LOGGED BY: Stiles + Ross ITEM NO: 484 DATE LOGGED IN (D,M,Y): 14-1-75

REMARKS: (bedding, shells, structures, mottling, disturbance, etc.)	DEPTH (CM)	CORE SKETCH	SAMPLE INTERVAL	TEST: SOUND VEL.	SHEAR STREN.	MOIST. CONT.	SIZE	$CaCO_3$	REF.		
	200	8									
		8									
		207									
	10										
	20										
	30										
	40										
	50										
	60										
	70										
	80										
	90										
	00										

CORE DESCRIPTION SHEET

NAVOCEANO-3167 (3-68)

SAMPLE NO. SA-9 (Site 8) LOCATION: St. Andrew Bay SAMPLER TYPE: HYG

LATITUDE 30 °10' 17.0 "N WATER DEPTH (M): 12.8

LONGITUDE 85 °44' 10.0" W CORE LENGTH (CM): 207

DATE CORED (D,M,Y): 9-1-75 CORE PENETRATION (CM): –

LOGGED BY: Stiles ITEM NO: 484 DATE LOGGED IN (D,M,Y): 14-1-75

REMARKS: (Odor, bedding, shells, structures, mottling, disturbance, etc.)	DEPTH (CM)	CORE SKETCH	COLOR (GSA)	LAB. NO.	SAMPLE INTERVAL (CM)	SEDIMENT TYPE (Visual)
0-23: Disturbed interval of very soupy silty clay with a trace of sand. Contact at bottom of this interval is with a more dense interval.	0		5Y3/2			Silty Clay
	10					
	20					
23-160/170: This interval is marked by an increase in concentration of shells and shell fragments with depth. Sand pockets observed from ≈28-42cm. The increase in shell concentrations are as follows: 23-85cm ≈ 5% 85-160/170 cm ≈ 10-15%. 4cm long clam shell at ≈40cm. Contact at 160/170 cm marked by a decrease in shell fragments.				484-27	23-33	Silt-Clay-Sand
	30					
	40					
	50			484-28	50-60	
	60					
	70					
	80					
	90			484-29	85-95	
	100		5Y3/2			

CORE DESCRIPTION SHEET

NAVOCEANO-3167 (03-13-68)

SAMPLE NO. SA-9 (site 8) LOCATION: St. Andrew Bay SAMPLER TYPE: HYG

LATITUDE 30 °10'17.0" N WATER DEPTH (M): 12.8

LONGITUDE 85 °44'10.0" W CORE LENGTH (CM): 207

DATE CORED (D,M,Y): 9-1-75 CORE PENETRATION (CM): -

LOGGED BY: Stiles ITEM NO: 484 DATE LOGGED IN (D,M,Y): 14-1-75

REMARKS: (Odor, bedding, shells, structures, mottling, disturbance, etc.)	DEPTH (CM)	CORE SKETCH	COLOR (GSA)	LAB. NO.	SAMPLE INTERVAL (CM)	SEDIMENT TYPE (Visual)
	100		5Y3/2			Silt-Clay-Sand
	110					
	120					
	130					
6 cm long clam shell at 140 cm interval	140					
				484-30	140-150	
	150					
	160					Silty Clay
160-170: Except for pocket of shell fragments located between 170-180 cm, the remainder of material to the bottom of the core is homogeneous silty clay with little shell material.	170					
	180					
	190			No Anaylysis	190-200	
	200		5Y3/2			

CORE DESCRIPTION SHEET

NAVOCEANO-3167 (3-1-68)

SAMPLE NO. SA-9 (site 8) LOCATION: St. Andrew Bay SAMPLER TYPE: HYG

LATITUDE 30 °10'17.0"N WATER DEPTH (M): 12.8

LONGITUDE 85 °44'10.0"W CORE LENGTH (CM): 207

DATE CORED (D,M,Y): 9-1-75 CORE PENETRATION (CM): –

LOGGED BY: Stiles ITEM NO: 484 DATE LOGGED IN (D,M,Y): 14-1-75

REMARKS: (Odor, bedding, shells, structures, mottling, disturbance, etc.)	DEPTH (CM)	CORE SKETCH	COLOR (GSA)	LAB. NO.	SAMPLE INTERVAL (CM)	SEDIMENT TYPE (Visual)
	200		5Y3/2 ↓			Silty Clay ↓
		207				
	210					
	220					
	30					
	40					
	50					
	60					
	70					
	80					
	90					
	00					

CORE RADIOGRAPH DESCRIPTION SHEET

NAVOCEANO-EXP-3167/108 (12-70)

SAMPLE NO. SA-10 (site 5) LOCATION: St. Andrew Bay SAMPLER TYPE: HYG

LATITUDE 30 °09'04.5"N WATER DEPTH (M): 9.8

LONGITUDE 85 °42'29.0"W CORE LENGTH (CM): 145

DATE CORED (D,M,Y): 9-1-75 CORE PENETRATION (CM): -

LOGGED BY: Stiles + Ross ITEM NO: 484 DATE LOGGED IN (D,M,Y): 14-1-75

REMARKS: (bedding, shells, structures, mottling, disturbance, etc.)	DEPTH (CM)	CORE SKETCH	SAMPLE INTERVAL	TEST: SOUND VEL.	SHEAR STREN.	MOIST. CONT.	SIZE	$CaCO_3$	REF.
	0	"Disturbed"							
0-4/7: Zone of high and low density materials. Highly disturbed. Faint contact.	10								
4/7-38/40: Higher density than above disturbed zone. Numerous sediment-liner interface voids. Cracks and fissures extend the length of this interval. High density wispy stringers comprise the majority of this interval. A moderate amount of mottling also was observed. The contact is faint and irregular.	20	Void	15-25		✓	✓	✓	–	✓
				20					
	30								
	40		35-45	40	✓	✓	✓		✓
	50	Void							
38/40-72 Matrix is less dense than above. Vertical fractures are present. Moderate dense stringers and a moderate amount of mottling. Faint and indistinct contact.	60								
	70								
72-85: No density contrast in matrix. Absence of stringers but a moderate amount of mottling. Faint and indistinct contact.	80		72-82	75	✓	✓	–	–	–
	90								
85-108/109: Slightly higher density than above. Similar fracture and fissure features	100	Void							

CORE RADIOGRAPH DESCRIPTION SHEET

NAVOCEANO-EXP-3167/108 (12-70)

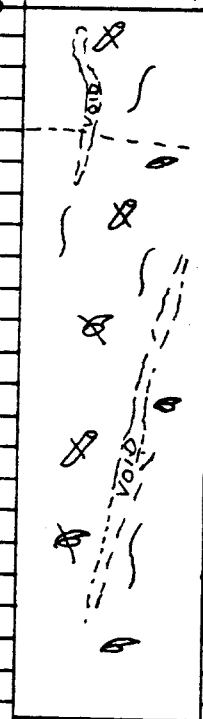
SAMPLE NO. SA-10 (Site 5) LOCATION: St. Andrew Bay SAMPLER TYPE: HYG

LATITUDE 30 ° 09' 04.5" N WATER DEPTH (M): 9.8

LONGITUDE 85 ° 42' 29.0" W CORE LENGTH (CM): 145

DATE CORED (D,M,Y): 9-1-75 CORE PENETRATION (CM): -

LOGGED BY: Stiles + Ross ITEM NO: 484 DATE LOGGED IN (D,M,Y): 14-1-75

REMARKS: (bedding, shells, structures, mottling, disturbance, etc.)	DEPTH (CM)	CORE SKETCH	SAMPLE INTERVAL	TEST: SOUND VEL.	SHEAR STREN.	MOIST. CONT.	SIZE	$CaCO_3$	REF.
Moderate to high density stringers. Faint and indistinct contact	100								
108/109-145: Higher density than above. Similar fracture and fissures as above intervals. A higher concentration of shells and shell fragments plus some stringer and mottling distinguish this interval.	10								
	20								
	30								
	40								
		145							
	50								
	60								
	70								
	80								
	90								
	00								

CORE DESCRIPTION SHEET

NAVOCEANO-3167 03 (3-68)

SAMPLE NO. SA-10 (site 5) LOCATION: St. Andrew Bay SAMPLER TYPE: HYG

LATITUDE 30° 09' 04.5" N WATER DEPTH (M): 9.8

LONGITUDE 85° 42' 29.0" W CORE LENGTH (CM): 145

DATE CORED (D,M,Y): 9-1-75 CORE PENETRATION (CM):

LOGGED BY: Stiles ITEM NO: 484 DATE LOGGED IN (D,M,Y): 14-1-75

REMARKS: (Odor, bedding, shells, structures, mottling, disturbance, etc.)	DEPTH (CM)	CORE SKETCH	COLOR (GSA)	LAB. NO.	SAMPLE INTERVAL (CM)	SEDIMENT TYPE (Visual)
0-92: Homogeneous silty clay with a trace of sand and shell material.	0		5Y3/2			silty clay
	10					
	20			484-31	15-25	
	30					
	40			484-32	35-45	
	50					
	60					
	70					
	80					
92-145: This section was not analyzed. Section cut and shipped to NAVOCEANO Geology Laboratory.	90		5Y3/2			
	100					

CORE DESCRIPTION SHEET

NAVOCEANO-3167 03 (3-68)

SAMPLE NO. SA-10 (site 5) LOCATION: St. Andrew Bay SAMPLER TYPE: HYG

LATITUDE 30 °09'04.5"N WATER DEPTH (M): 9.8

LONGITUDE 85 °42'29.0"W CORE LENGTH (CM): 145

DATE CORED (D,M,Y): 9-1-75 CORE PENETRATION (CM):

LOGGED BY: Stiles ITEM NO: 484 DATE LOGGED IN (D,M,Y): 14-1-75

REMARKS: (Odor, bedding, shells, structures, mottling, disturbance, etc.)	DEPTH (CM)	CORE SKETCH	COLOR (GSA)	LAB. NO.	SAMPLE INTERVAL (CM)	SEDIMENT TYPE (Visual)
No VISUAL Description from 92-145.	100					
	110					
	120					
	130					
	140					
		145				
	150					
	160					
	170					
	180					
	190					
	200					

CORE RADIOGRAPH DESCRIPTION SHEET

NAVOCEANO-EXP-3167/108 (12-70)

JA 9C

51

SAMPLE NO. SA-11B LOCATION: St. Andrew Bay SAMPLER TYPE: HYG

LATITUDE 30 °08'50.5"N WATER DEPTH (M): 12.8

LONGITUDE 85 °40'37.0"W CORE LENGTH (CM): 206

DATE CORED (D,M,Y): 9-1-75 CORE PENETRATION (CM):

LOGGED BY: Stiles ITEM NO: 484 DATE LOGGED IN (D,M,Y): 13-1-75

REMARKS: (bedding, shells, structures, mottling, disturbance, etc.)	DEPTH (CM)	CORE SKETCH	SAMPLE INTERVAL	TEST: SOUND VEL.	SHEAR STREN.	MOIST. CONT.	SIZE	$CaCO_3$	REF.
	0	"Disturbed"							
0-18/25: Zone of mixed high and low density materials Highly disturbed interval showing sediment-liner interface voids Faint and irregular contact.	10	MOT High		5					
				15					
	20	Low							
18/25-37: More dense than above. Faintly mottled. Faint and indistinct contact.			20-30	25	✓	✓	–	–	–
	30								
				35					
37-123: Slightly higher density than above. wispy moderate density stringers with Less than 5% shells and shell fragments. With the exception of the 74-92 cm interval, most of the shells are less than 0.5 cm in diameter Sharp and distinct contact.	40		40-50		✓	–	–	–	–
				45					
	50								
				55					
	60								
				65					
	70								
74-92: Large shells and shell fragments ranging from 1-6 cm in diameter	80								
Note: No core description sheet. To determine if any sampling disturbance occurred, the vane was inserted directly into the core barrel. The visual sediment type was mainly silty	90								
				95					
	100								

CORE RADIOGRAPH DESCRIPTION SHEET

NAVOCEANO-EXP-3167/108 (12-70)

SAMPLE NO. SA-11 B LOCATION: St. Andrew Bay SAMPLER TYPE: HYG

LATITUDE 30 °08' 50.5" N WATER DEPTH (M): 12.8

LONGITUDE 85 °40' 37.0" W CORE LENGTH (CM): 206

DATE CORED (D,M,Y): 9-1-75 CORE PENETRATION (CM):

LOGGED BY: Stiles ITEM NO: 484 DATE LOGGED IN (D,M,Y): 13-1-75

REMARKS: (bedding, shells, structures, mottling, disturbance, etc.)	DEPTH (CM)	CORE SKETCH	SAMPLE INTERVAL	TEST: SOUND VEL.	SHEAR STREN.	MOIST. CONT.	SIZE	$CaCO_3$	REF.		
clay and the color	100										
5Y 3/2. See cores											
SA-5 and SA-7. also			100-110	105	✓	✓	–	–	–		
from Area "B"											
	10										
				115							
	20										
				125							
123-206: Higher											
density than above.											
Large quantity of	30										
shells and shell			133-143	135	✓	✓	–	–	–		
fragments.											
Approximately 25%											
ranging from .5 to											
2cm. dia.	40										
				145							
	50										
				155							
	60										
				165							
	70										
				175							
	80										
				185							
	90										
			190-195	195	✓	✓	–	–	–		
	200										

CORE RADIOGRAPH DESCRIPTION SHEET

NAVOCEANO-EXP-3167/108 (12-70)

SAMPLE NO. SA - 11B LOCATION: St. Andrew Bay SAMPLER TYPE: HYG

LATITUDE 30 °08'50.5"N WATER DEPTH (M): 12.8

LONGITUDE 85 °40'37.0"W CORE LENGTH (CM): 206

DATE CORED (D,M,Y): 9-1-75 CORE PENETRATION (CM):

LOGGED BY: Stiles ITEM NO: 484 DATE LOGGED IN (D,M,Y): 13-1-75

REMARKS: (bedding, shells, structures, mottling, disturbance, etc.)	DEPTH (CM)	CORE SKETCH	SAMPLE INTERVAL	TEST: SOUND VEL.	SHEAR STREN.	MOIST. CONT.	SIZE	$CaCO_3$	REF.		
	~~200~~										
		206									
	210										
	20										
	30										
	40										
	50										
	60										
	70										
	80										
	90										
	00										

SEDIMENT CORE ANALYSIS SA 1A

CORE DIAMETER = .082 METERS TEMP = 16.50 SALINITY = 33.70 DEPTH = 12.8

CORRECTION FOR INSITU PRESSURE = .04 M/S SOUND VELOCITY OF THE BOTTOM WATER =1510.51 M/S

CORE DEPTH (CM.)	SD VEL SED (M/S)	DELTA T (SEC)	SD VEL WATER (M/S)	TEMP (C.)	TEMP CORR (M/S)	STP CORR (M/S)
25.	1494.	.7000-06	1493.	23.4	-18.922	-.102
25.	1496.	.8000-06	1493.	23.4	-18.922	-.102
35.	1495.	.7400-06	1493.	23.4	-18.922	-.102
35.	1499.	.9000-06	1493.	23.4	-18.922	-.102
45.	1499.	.9000-06	1493.	23.4	-18.922	-.102
45.	1499.	.9000-06	1493.	23.4	-18.922	-.102
55.	1499.	.9000-06	1493.	23.4	-18.922	-.102
55.	1494.	.7000-06	1493.	23.4	-18.922	-.102
65.	1522.	.1700-05	1493.	23.4	-18.922	-.102
65.	1522.	.1700-05	1493.	23.4	-18.922	-.102
95.	1505.	.1100-05	1493.	23.4	-18.922	-.102
95.	1499.	.9000-06	1493.	23.4	-18.922	-.102
105.	1502.	.1000-05	1493.	23.4	-18.922	-.102
105.	1505.	.1100-05	1493.	23.4	-18.922	-.102
115.	1505.	.1100-05	1493.	23.4	-18.922	-.102
115.	1511.	.1300-05	1493.	23.4	-18.922	-.102
125.	1505.	.1100-05	1493.	23.4	-18.922	-.102
125.	1505.	.1100-05	1493.	23.4	-18.922	-.102
135.	1511.	.1300-05	1493.	23.4	-18.922	-.102
135.	1513.	.1400-05	1493.	23.4	-18.922	-.102
145.	1516.	.1500-05	1493.	23.4	-18.922	-.102
145.	1516.	.1500-05	1493.	23.4	-18.922	-.102
155.	1502.	.1000-05	1493.	23.4	-18.922	-.102
155.	1505.	.1100-05	1493.	23.4	-18.922	-.102
165.	1513.	.1400-05	1493.	23.4	-18.922	-.102
165.	1516.	.1500-05	1493.	23.4	-18.922	-.102
175.	1508.	.1200-05	1493.	23.4	-18.922	-.102
175.	1505.	.1100-05	1493.	23.4	-18.922	-.102
185.	1508.	.1200-05	1493.	23.4	-18.922	-.102
185.	1505.	.1100-05	1493.	23.4	-18.922	-.102

0900 5064

SEDIMENT CORE ANALYSIS SA 2A

CORE DIAMETER = .082 METERS TEMP = 16.50 SALINITY = 33.70 DEPTH = 12.8

CORRECTION FOR INSITU PRESSURE = .04 M/S SOUND VELOCITY OF THE BOTTOM WATER =1510.51 M/S

CORE DEPTH (CM.)	SD VEL SED (M/S)	DELTA T (SEC)	SD VEL WATER (M/S)	TEMP (C.)	TEMP CORR (M/S)	STP CORR (M/S)
25.	1496.	.8000-06	1494.	23.5	-19.169	-.104
25.	1496.	.8000-06	1494.	23.5	-19.169	-.104
35.	1498.	.8400-06	1494.	23.5	-19.169	-.104
35.	1498.	.8400-06	1494.	23.5	-19.169	-.104
45.	1496.	.8000-06	1494.	23.5	-19.169	-.104
45.	1499.	.9000-06	1494.	23.5	-19.169	-.104
55.	1502.	.1000-05	1494.	23.5	-19.169	-.104
55.	1502.	.1000-05	1494.	23.5	-19.169	-.104
65.	1502.	.1000-05	1494.	23.5	-19.169	-.104
65.	1499.	.9000-06	1494.	23.5	-19.169	-.104
75.	1508.	.1200-05	1494.	23.5	-19.169	-.104
75.	1502.	.1000-05	1494.	23.5	-19.169	-.104
85.	1502.	.1000-05	1494.	23.5	-19.169	-.104
85.	1502.	.1000-05	1494.	23.5	-19.169	-.104
95.	1499.	.9000-06	1494.	23.5	-19.169	-.104
95.	1496.	.8000-06	1494.	23.5	-19.169	-.104
105.	1513.	.1400-05	1494.	23.5	-19.169	-.104
105.	1513.	.1400-05	1494.	23.5	-19.169	-.104
115.	1496.	.8000-06	1494.	23.5	-19.169	-.104
115.	1494.	.7000-06	1494.	23.5	-19.169	-.104
125.	1492.	.6400-06	1494.	23.5	-19.169	-.104
125.	1488.	.5000-06	1494.	23.5	-19.169	-.104
135.	1491.	.6000-06	1494.	23.5	-19.169	-.104
135.	1491.	.6000-06	1494.	23.5	-19.169	-.104
145.	1496.	.8000-06	1494.	23.5	-19.169	-.104
145.	1496.	.8000-06	1494.	23.5	-19.169	-.104
155.	1502.	.1000-05	1494.	23.5	-19.169	-.104
155.	1502.	.1000-05	1494.	23.5	-19.169	-.104
165.	1496.	.8000-06	1494.	23.5	-19.169	-.104
165.	1494.	.7000-06	1494.	23.5	-19.169	-.104
175.	1496.	.8000-06	1494.	23.5	-19.169	-.104
175.	1496.	.8000-06	1494.	23.5	-19.169	-.104
185.	1496.	.8000-06	1494.	23.5	-19.169	-.104
185.	1499.	.9000-06	1494.	23.5	-19.169	-.104
195.	1496.	.8000-06	1494.	23.5	-19.169	-.104
195.	1499.	.9000-06	1494.	23.5	-19.169	-.104
205.	1483.	.3000-06	1494.	23.5	-19.169	-.104
215.	1491.	.6000-06	1494.	23.5	-19.169	-.104
215.	1488.	.5000-06	1494.	23.5	-19.169	-.104

MCG 0 9 0 0 5 0 6 4

SEDIMENT CORE ANALYSIS SA 3A

CORE DIAMETER = .082 METERS TEMP = 16.50 SALINITY = 33.70 DEPTH = 12.8

CORRECTION FOR INSITU PRESSURE = .04 M/S SOUND VELOCITY OF THE BOTTOM WATER =1510.51 M/S

CORE DEPTH (CM.)	SD VEL SED (M/S)	DELTA T (SEC)	SD VEL WATER (M/S)	TEMP (C.)	TEMP CORR (M/S)	STP CORR (M/S)
5.	1525.	.1800-05	1494.	23.5	-19.169	-.104
5.	1525.	.1800-05	1494.	23.5	-19.169	-.104
15.	1537.	.2200-05	1494.	23.5	-19.169	-.104
15.	1534.	.2100-05	1494.	23.5	-19.169	-.104
25.	1540.	.2300-05	1494.	23.5	-19.169	-.104
25.	1540.	.2300-05	1494.	23.5	-19.169	-.104
35.	1543.	.2400-05	1494.	23.5	-19.169	-.104
35.	1534.	.2100-05	1494.	23.5	-19.169	-.104
45.	1582.	.3700-05	1494.	23.5	-19.169	-.104
45.	1579.	.3600-05	1494.	23.5	-19.169	-.104
55.	1558.	.2900-05	1494.	23.5	-19.169	-.104
55.	1549.	.2600-05	1494.	23.5	-19.169	-.104
85.	1570.	.3300-05	1494.	23.6	-19.415	-.105
85.	1570.	.3300-05	1494.	23.6	-19.415	-.105
95.	1561.	.3000-05	1494.	23.6	-19.415	-.105
95.	1579.	.3600-05	1494.	23.6	-19.415	-.105
105.	1573.	.3400-05	1494.	23.6	-19.415	-.105
105.	1570.	.3300-05	1494.	23.6	-19.415	-.105
115.	1549.	.2600-05	1494.	23.6	-19.415	-.105
115.	1549.	.2600-05	1494.	23.6	-19.415	-.105
125.	1564.	.3100-05	1494.	23.6	-19.415	-.105
135.	1564.	.3100-05	1494.	23.6	-19.415	-.105

0900504

SEDIMENT CORE ANALYSIS SA 4A

CORE DIAMETER = .082 METERS TEMP = 16.50 SALINITY = 33.70 DEPTH = 12.8

CORRECTION FOR INSITU PRESSURE = .04 M/S SOUND VELOCITY OF THE BOTTOM WATER =1510.51 M/S

CORE DEPTH (CM.)	SD VEL SED (M/S)	DELTA T (SEC)	SD VEL WATER (M/S)	TEMP (C.)	TEMP CORR (M/S)	STP CORR (M/S)
25.	1499.	.9000-06	1494.	23.8	-19.904	-.108
25.	1499.	.9000-06	1494.	23.8	-19.904	-.108
35.	1499.	.9000-06	1494.	23.8	-19.904	-.108
35.	1499.	.9000-06	1494.	23.8	-19.904	-.108
45.	1505.	.1100-05	1494.	23.8	-19.904	-.108
45.	1502.	.1000-05	1494.	23.8	-19.904	-.108
55.	1502.	.1000-05	1494.	23.8	-19.904	-.108
55.	1505.	.1100-05	1494.	23.8	-19.904	-.108
65.	1505.	.1100-05	1494.	23.8	-19.904	-.108
65.	1505.	.1100-05	1494.	23.8	-19.904	-.108
75.	1503.	.1040-05	1494.	23.8	-19.904	-.108
75.	1503.	.1040-05	1494.	23.8	-19.904	-.108
85.	1503.	.1040-05	1494.	23.8	-19.904	-.108
85.	1505.	.1100-05	1494.	23.8	-19.904	-.108
95.	1511.	.1300-05	1494.	23.8	-19.904	-.108
95.	1516.	.1500-05	1494.	23.8	-19.904	-.108
105.	1534.	.2100-05	1494.	23.8	-19.904	-.108
105.	1528.	.1900-05	1494.	23.8	-19.904	-.108
115.	1511.	.1300-05	1494.	23.8	-19.904	-.108
115.	1508.	.1200-05	1495.	23.9	-20.148	-.109
125.	1508.	.1200-05	1495.	23.9	-20.148	-.109
125.	1511.	.1300-05	1495.	23.9	-20.148	-.109
135.	1502.	.1000-05	1495.	23.9	-20.148	-.109
135.	1499.	.9000-06	1495.	23.9	-20.148	-.109
145.	1494.	.7000-06	1495.	23.9	-20.148	-.109
145.	1494.	.7000-06	1495.	23.9	-20.148	-.109
155.	1505.	.1100-05	1495.	23.9	-20.148	-.109
155.	1505.	.1100-05	1495.	23.9	-20.148	-.109
165.	1499.	.9000-06	1495.	23.9	-20.148	-.109
165.	1499.	.9000-06	1495.	23.9	-20.148	-.109
175.	1505.	.1100-05	1495.	23.9	-20.148	-.109
175.	1505.	.1100-05	1495.	23.9	-20.148	-.109
185.	1499.	.9000-06	1495.	23.9	-20.148	-.109
185.	1499.	.9000-06	1495.	23.9	-20.148	-.109
195.	1499.	.9000-06	1495.	23.9	-20.148	-.109
195.	1499.	.9000-06	1495.	23.9	-20.148	-.109
215.	1494.	.7000-06	1495.	23.9	-20.148	-.109
215.	1494.	.7000-06	1495.	23.9	-20.148	-.109

RC09005064

SEDIMENT CORE ANALYSIS SA 58

CORE DIAMETER = .082 METERS TEMP = 16.50 SALINITY = 33.70 DEPTH = 12.8

CORRECTION FOR INSITU PRESSURE = .04 M/S SOUND VELOCITY OF THE BOTTOM WATER =1510.51 M/S

CORE DEPTH (CM.)	SD VEL SED (M/S)	DELTA T (SEC)	SD VEL WATER (M/S)	TEMP (C.)	TEMP CORR (M/S)	STR CORR (M/S)
25.	1494.	.7000-06	1495.	23.9	-20.148	-.109
25.	1494.	.7000-06	1495.	23.9	-20.148	-.109
35.	1494.	.7000-06	1495.	23.9	-20.148	-.109
35.	1494.	.7000-06	1495.	23.9	-20.148	-.109
45.	1492.	.6400-06	1495.	23.9	-20.148	-.109
45.	1497.	.8000-06	1495.	23.9	-20.148	-.109
55.	1494.	.7000-06	1495.	23.9	-20.148	-.109
55.	1494.	.7000-06	1495.	23.9	-20.148	-.109
65.	1494.	.7000-06	1495.	23.9	-20.148	-.109
65.	1495.	.7400-06	1495.	23.9	-20.148	-.109
75.	1491.	.6000-06	1495.	23.9	-20.148	-.109
75.	1494.	.7000-06	1495.	23.9	-20.148	-.109
85.	1491.	.6000-06	1495.	23.9	-20.148	-.109
85.	1494.	.7000-06	1495.	23.9	-20.148	-.109
95.	1497.	.8000-06	1495.	23.9	-20.148	-.109
95.	1497.	.8000-06	1495.	23.9	-20.148	-.109
105.	1494.	.7000-06	1495.	23.9	-20.148	-.109
105.	1497.	.8000-06	1495.	23.9	-20.148	-.109
115.	1499.	.9000-06	1495.	23.9	-20.148	-.109
115.	1499.	.9000-06	1495.	23.9	-20.148	-.109
125.	1499.	.9000-06	1495.	23.9	-20.148	-.109
125.	1499.	.9000-06	1495.	23.9	-20.148	-.109
135.	1499.	.9000-06	1495.	23.9	-20.148	-.109
135.	1499.	.9000-06	1495.	23.9	-20.148	-.109
145.	1491.	.6000-06	1495.	23.9	-20.148	-.109
145.	1489.	.5400-06	1495.	23.9	-20.148	-.109
155.	1497.	.8000-06	1495.	23.9	-20.148	-.109
155.	1499.	.9000-06	1495.	23.9	-20.148	-.109
175.	1497.	.8000-06	1495.	23.9	-20.148	-.109
175.	1497.	.8000-06	1495.	23.9	-20.148	-.109
185.	1494.	.7000-06	1495.	23.9	-20.148	-.109
185.	1497.	.8000-06	1495.	23.9	-20.148	-.109
195.	1497.	.8000-06	1495.	23.9	-20.148	-.109
195.	1502.	.1000-05	1495.	23.9	-20.148	-.109
205.	1499.	.9000-06	1495.	23.9	-20.148	-.109
205.	1499.	.9000-06	1495.	23.9	-20.148	-.109

0900 5064

SEDIMENT CORE ANALYSIS SA 68

CORE DIAMETER = .082 METERS TEMP = 16.50 SALINITY = 33.70 DEPTH = 12.8

CORRECTION FOR INSITU PRESSURE = .04 M/S SOUND VELOCITY OF THE BOTTOM WATER =1510.51 M/S

CORE DEPTH (CM.)	SD VEL SED (M/S)	DELTA T (SEC)	SD VEL WATER (M/S)	TEMP (C.)	TEMP CORR (M/S)	STP CORR (M/S)
5.	1504.	.1100-05	1490.	22.2	-15.906	-.084
5.	1504.	.1100-05	1490.	22.2	-15.906	-.084
15.	1499.	.9000-06	1490.	22.2	-15.906	-.084
15.	1499.	.9000-06	1490.	22.2	-15.906	-.084
25.	1497.	.8400-06	1490.	22.2	-15.906	-.084
25.	1499.	.9200-06	1490.	22.2	-15.906	-.084
35.	1497.	.8400-06	1490.	22.2	-15.906	-.084
35.	1499.	.9000-06	1490.	22.2	-15.906	-.084
45.	1495.	.7600-06	1490.	22.2	-15.906	-.084
45.	1496.	.8000-06	1490.	22.2	-15.906	-.084
55.	1495.	.7600-06	1490.	22.2	-15.906	-.084
55.	1497.	.8400-06	1490.	22.2	-15.906	-.084
65.	1497.	.8400-06	1490.	22.2	-15.906	-.084
65.	1499.	.9000-06	1490.	22.2	-15.906	-.084
80.	1501.	.1000-05	1490.	22.2	-15.906	-.084
80.	1506.	.1160-05	1490.	22.2	-15.906	-.084
115.	1495.	.7600-06	1490.	22.2	-15.906	-.084
115.	1495.	.7600-06	1490.	22.2	-15.906	-.084
125.	1496.	.8000-06	1490.	22.2	-15.906	-.084
125.	1496.	.8000-06	1490.	22.2	-15.906	-.084
135.	1499.	.9000-06	1490.	22.2	-15.906	-.084
135.	1499.	.9000-06	1490.	22.2	-15.906	-.084
145.	1505.	.1120-05	1490.	22.2	-15.906	-.084
145.	1508.	.1240-05	1490.	22.2	-15.906	-.084
155.	1527.	.1900-05	1490.	22.2	-15.906	-.084
155.	1514.	.1440-05	1490.	22.2	-15.906	-.084
165.	1510.	.1300-05	1490.	22.2	-15.906	-.084
165.	1510.	.1300-05	1490.	22.2	-15.906	-.084
175.	1504.	.1100-05	1490.	22.2	-15.906	-.084
175.	1516.	.1500-05	1490.	22.2	-15.906	-.084

TC09005064

SEDIMENT CORE ANALYSIS SA 78

CORE DIAMETER = .082 METERS TEMP = 16.50 SALINITY = 33.70 DEPTH = 12.8

CORRECTION FOR INSITU PRESSURE = .04 M/S SOUND VELOCITY OF THE BOTTOM WATER =1510.51 M/S

CORE DEPTH (CM.)	SD VEL SED (M/S)	DELTA T (SEC)	SD VEL WATER (M/S)	TEMP (C.)	TEMP CORR (M/S)	STP CORR (M/S)
5.	1505.	.1120-05	1490.	22.2	-15.906	-.084
5.	1505.	.1120-05	1490.	22.2	-15.906	-.084
15.	1504.	.1100-05	1490.	22.2	-15.906	-.084
15.	1501.	.1000-05	1490.	22.2	-15.906	-.084
25.	1501.	.1000-05	1490.	22.2	-15.906	-.084
25.	1503.	.1040-05	1490.	22.2	-15.906	-.084
35.	1501.	.1000-05	1490.	22.2	-15.906	-.084
35.	1501.	.1000-05	1490.	22.2	-15.906	-.084
45.	1500.	.9600-06	1490.	22.2	-15.906	-.084
45.	1500.	.9600-06	1490.	22.2	-15.906	-.084
55.	1499.	.9000-06	1490.	22.2	-15.906	-.084
55.	1499.	.9000-06	1490.	22.2	-15.906	-.084
65.	1500.	.9600-06	1490.	22.2	-15.906	-.084
65.	1501.	.9800-06	1490.	22.2	-15.906	-.084
75.	1501.	.9800-06	1490.	22.2	-15.906	-.084
75.	1501.	.9800-06	1490.	22.2	-15.906	-.084
85.	1502.	.1020-05	1490.	22.2	-15.906	-.084
85.	1502.	.1020-05	1490.	22.2	-15.906	-.084
95.	1502.	.1020-05	1490.	22.2	-15.906	-.084
95.	1503.	.1060-05	1490.	22.2	-15.906	-.084
105.	1502.	.1020-05	1490.	22.2	-15.906	-.084
105.	1505.	.1120-05	1490.	22.2	-15.906	-.084
115.	1505.	.1120-05	1490.	22.2	-15.906	-.084
115.	1505.	.1120-05	1490.	22.2	-15.906	-.084
135.	1497.	.8400-06	1490.	22.2	-15.906	-.084
135.	1497.	.8400-06	1490.	22.2	-15.906	-.084
145.	1496.	.8000-06	1490.	22.2	-15.906	-.084
145.	1496.	.8000-06	1490.	22.2	-15.906	-.084
155.	1503.	.1040-05	1490.	22.2	-15.906	-.084
155.	1501.	.9800-06	1490.	22.2	-15.906	-.084
165.	1503.	.1040-05	1490.	22.2	-15.906	-.084
165.	1501.	.9800-06	1490.	22.2	-15.906	-.084
175.	1501.	.1000-05	1490.	22.2	-15.906	-.084
175.	1504.	.1100-05	1490.	22.2	-15.906	-.084
185.	1496.	.8000-06	1490.	22.2	-15.906	-.084
185.	1496.	.8000-06	1490.	22.2	-15.906	-.084
195.	1496.	.8000-06	1490.	22.2	-15.906	-.084
195.	1494.	.7400-06	1490.	22.2	-15.906	-.084
205.	1500.	.9400-06	1490.	22.2	-15.906	-.084
205.	1498.	.8800-06	1490.	22.2	-15.906	-.084
215.	1503.	.1040-05	1490.	22.2	-15.906	-.084
215.	1503.	.1040-05	1490.	22.2	-15.906	-.084

0090050 64

SEDIMENT CORE ANALYSIS SA 88

CORE DIAMETER = .082 METERS TEMP = 16.50 SALINITY = 33.70 DEPTH = 12.8

CORRECTION FOR INSITU PRESSURE = .04 M/S SOUND VELOCITY OF THE BOTTOM WATER =1510.51 M/S

CORE DEPTH (CM.)	SD VEL SED (M/S)	DELTA T (SEC)	SD VEL WATER (M/S)	TEMP (C.)	TEMP CORR (M/S)	STP CORR (M/S)
25.	1591.	.4000-05	1490.	22.2	-15.906	-.084
25.	1591.	.4000-05	1490.	22.2	-15.906	-.084
35.	1629.	.5200-05	1490.	22.2	-15.906	-.084
35.	1616.	.4800-05	1490.	22.2	-15.906	-.084
45.	1633.	.5300-05	1490.	22.2	-15.906	-.084
45.	1639.	.5500-05	1490.	22.2	-15.906	-.084

0900506 4

SEDIMENT CORE ANALYSIS SA11B

CORE DIAMETER = .082 METERS TEMP = 16.50 SALINITY = 33.70 DEPTH = 12.8

CORRECTION FOR INSITU PRESSURE = .04 M/S SOUND VELOCITY OF THE BOTTOM WATER =1510.51 M/S

CORE DEPTH (CM.)	SD VEL SED (M/S)*	DELTA T (SEC)	SD VEL WATER (M/S)	TEMP (C.)	TEMP CORR (M/S)	STP CORR (M/S)
5.	1499.	.9000-06	1490.	22.1	-15.649	-.083
5.	1499.	.9000-06	1490.	22.1	-15.649	-.083
15.	1499.	.9000-06	1490.	22.1	-15.649	-.083
15.	1497.	.8600-06	1490.	22.1	-15.649	-.083
25.	1496.	.8000-06	1490.	22.1	-15.649	-.083
25.	1496.	.8000-06	1490.	22.1	-15.649	-.083
35.	1492.	.6600-06	1490.	22.1	-15.649	-.083
35.	1492.	.6600-06	1490.	22.1	-15.649	-.083
45.	1492.	.6600-06	1490.	22.1	-15.649	-.083
45.	1492.	.6600-06	1490.	22.1	-15.649	-.083
55.	1494.	.7400-06	1490.	22.1	-15.649	-.083
55.	1494.	.7400-06	1490.	22.1	-15.649	-.083
65.	1496.	.8000-06	1490.	22.1	-15.649	-.083
65.	1497.	.8600-06	1490.	22.1	-15.649	-.083
95.	1487.	.5000-06	1490.	22.1	-15.649	-.083
95.	1487.	.5000-06	1490.	22.1	-15.649	-.083
105.	1487.	.5000-06	1490.	22.1	-15.649	-.083
105.	1486.	.4600-06	1490.	22.1	-15.649	-.083
115.	1494.	.7400-06	1490.	22.1	-15.649	-.083
115.	1494.	.7400-06	1490.	22.1	-15.649	-.083
125.	1492.	.6600-06	1490.	22.1	-15.649	-.083
125.	1490.	.6000-06	1490.	22.1	-15.649	-.083
135.	1496.	.8000-06	1490.	22.1	-15.649	-.083
135.	1493.	.7000-06	1490.	22.1	-15.649	-.083
145.	1493.	.7000-06	1490.	22.1	-15.649	-.083
145.	1491.	.6200-06	1490.	22.1	-15.649	-.083
155.	1507.	.1200-05	1490.	22.1	-15.649	-.083
155.	1500.	.9400-06	1490.	22.1	-15.649	-.083
165.	1500.	.9400-06	1490.	22.1	-15.649	-.083
165.	1497.	.8600-06	1490.	22.1	-15.649	-.083
175.	1493.	.7000-06	1490.	22.1	-15.649	-.083
175.	1492.	.6600-06	1490.	22.1	-15.649	-.083
185.	1497.	.8600-06	1490.	22.1	-15.649	-.083
185.	1493.	.7000-06	1490.	22.1	-15.649	-.083
195.	1482.	.3000-06	1490.	22.1	-15.649	-.083
195.	1486.	.4600-06	1490.	22.1	-15.649	-.083

0900504

SEDIMENT CORE ANALYSIS , SA 9

CORE DIAMETER = .082 METERS TEMP = 16.50 SALINITY = 33.70 DEPTH = 12.8

CORRECTION FOR INSITU PRESSURE = .04 M/S SOUND VELOCITY OF THE BOTTOM WATER =1510.51 M/S

CORE DEPTH (CM.)	SD VEL SED (M/S)	DELTA T (SEC)	SD VEL WATER (M/S)	TEMP (C.)	TEMP CORR (M/S)	STP CORR (M/S)
15.	1511.	.1340-05	1490.	22.2	-15.906	-.084
15.	1510.	.1300-05	1490.	22.2	-15.906	-.084
25.	1513.	.1400-05	1490.	22.2	-15.906	-.084
25.	1510.	.1300-05	1490.	22.2	-15.906	-.084
35.	1518.	.1600-05	1490.	22.2	-15.906	-.084
35.	1518.	.1600-05	1490.	22.2	-15.906	-.084
45.	1536.	.2220-05	1490.	22.2	-15.906	-.084
45.	1536.	.2200-05	1490.	22.2	-15.906	-.084
55.	1532.	.2060-05	1490.	22.2	-15.906	-.084
55.	1532.	.2060-05	1490.	22.2	-15.906	-.084
65.	1513.	.1420-05	1490.	22.2	-15.906	-.084
65.	1505.	.1140-05	1490.	22.2	-15.906	-.084
75.	1505.	.1140-05	1490.	22.2	-15.906	-.084
75.	1507.	.1200-05	1490.	22.2	-15.906	-.084
85.	1507.	.1200-05	1490.	22.2	-15.906	-.084
85.	1501.	.1000-05	1490.	22.2	-15.906	-.084
95.	1516.	.1500-05	1490.	22.2	-15.906	-.084
95.	1510.	.1300-05	1490.	22.2	-15.906	-.084
105.	1514.	.1440-05	1490.	22.2	-15.906	-.084
105.	1533.	.2100-05	1490.	22.2	-15.906	-.084
115.	1513.	.1420-05	1490.	22.2	-15.906	-.084
115.	1513.	.1420-05	1490.	22.2	-15.906	-.084
125.	1513.	.1420-05	1490.	22.2	-15.906	-.084
125.	1507.	.1200-05	1490.	22.2	-15.906	-.084
145.	1488.	.5000-06	1490.	22.2	-15.906	-.084
145.	1516.	.1500-05	1490.	22.2	-15.906	-.084
155.	1493.	.7000-06	1490.	22.2	-15.906	-.084
155.	1493.	.7000-06	1490.	22.2	-15.906	-.084
165.	1475.	.6000-07	1490.	22.2	-15.906	-.084
165.	1475.	.6000-07	1490.	22.2	-15.906	-.084
175.	1475.	.6000-07	1490.	22.2	-15.906	-.084
175.	1477.	.1000-06	1490.	22.2	-15.906	-.084
185.	1460.	-.5000-06	1490.	22.2	-15.906	-.084
185.	1475.	.6000-07	1490.	22.2	-15.906	-.084
195.	1475.	.6000-07	1490.	22.2	-15.906	-.084
195.	1475.	.6000-07	1490.	22.2	-15.906	-.084

00900064

SEDIMENT CORE ANALYSIS SA10

CORE DIAMETER = .082 METERS TEMP = 16.50 SALINITY = 33.70 DEPTH = 9.8

CORRECTION FOR INSITU PRESSURE = .04 M/S SOUND VELOCITY OF THE BOTTOM WATER =1510.51 M/S

CORE DEPTH (CM.)	SD VEL SED (M/S)	DELTA T (SEC)	SD VEL WATER (M/S)	TEMP (C.)	TEMP CORR (M/S)	STP CORR (M/S)
20.	1504.	.1100-05	1490.	22.2	-15.906	-.084
20.	1504.	.1100-05	1490.	22.2	-15.906	-.084
40.	1498.	.8600-06	1490.	22.2	-15.906	-.084
40.	1496.	.8000-06	1490.	22.2	-15.906	-.084
75.	1496.	.8000-06	1490.	22.2	-15.906	-.084
75.	1493.	.7000-06	1490.	22.2	-15.906	-.084

1309005064

SEDIMENT SIZE AND COMPOSITION DATA

CRUISE NCSL TAKEN 7JAN75 LATITUDE 30°09'59.0"N MARSDEN SQUARE 117 LENGTH 206.0 ANALYZED 12JAN75
SAMPLE SA 1A DEPTH 12.8 LONGITUDE 85°42'43.0"W CORER TYPE HYG PENETRATION .0

	SUBSAMPLE ID.	484 1	484 2	484 3	484 4	484 5
	DEPTH INTERVAL	30.0- 40.0	50.0- 60.0	90.0-100.0	130.0-140.0	170.0-180.0
DIAM (PHI)	DIAM (MM)	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
<-4	>16.000	.000	.000	.000	.000	.000
-4 TO -3	16.000 TO 8.000	.000	.000	.000	.000	.000
-3 TO -2	8.000 TO 4.000	.000	.000	.000	.000	.000
-2 TO -1	4.000 TO 2.000	.000	.135	.000	.000	.000
-1 TO 0	2.000 TO 1.000	.000	1.654	1.486	1.519	.000
0 TO 1	1.000 TO .500	.501	1.350	1.199	.506	1.575
1 TO 2	.500 TO .250	1.540	7.155	10.138	5.754	5.642
2 TO 3	.250 TO .125	10.526	20.452	27.912	40.012	40.187
3 TO 4	.125 TO .063	6.194	4.624	5.056	10.697	13.136
4 TO 5	.063 TO .031	7.662	4.556	5.082	3.221	1.990
5 TO 6	.031 TO .016	5.729	3.037	3.258	3.343	4.759
6 TO 7	.016 TO .008	14.501	9.112	16.158	7.091	8.567
7 TO 8	.008 TO .004	16.112	12.994	6.776	5.774	5.798
8 TO 9	.004 TO .002	3.759	4.050	2.867	2.938	1.125
9 TO 10	.002 TO .001	7.698	9.450	6.125	6.179	8.740
>10	<.001	25.779	21.431	13.943	12.966	8.480
	GRAVEL (>2.0 MM)	.000	.135	.000	.000	.000
	SAND (2.0-.063 MM)	18.761	35.235	45.791	58.489	60.540
	SILT (.063-.004 MM)	44.003	29.700	31.274	19.429	21.115
	CLAY (<.004 MM)	37.236	34.931	22.935	22.083	18.345
	MEAN (MM)	.0074	.0135	.0257	.0340	.0380
	MEAN (PHI)	7.074	6.208	5.281	4.877	4.716
	STANDARD DEVIATION	2.823	3.400	3.214	3.172	2.963
	SKEWNESS	.155	.077	.157	.333	.397
	KURTOSIS	-1.072	-1.394	-1.232	-1.012	.817
	COLOR (GSA)	5Y3/2	5Y3/2	5Y3/2	5Y3/2	5Y3/2
	DOMINANT CONSTITUENT	QUARTZ	QUARTZ	QUARTZ	QUARTZ	QUARTZ
	SECONDARY CONSTITUENT	SHELL FRAGS	SHELL FRAGS	SHELL FRAGS	SHELL FRAGS	SHELL FRAGS

SEDIMENT SIZE AND COMPOSITION DATA

CRUISE NCSL TAKEN 7JAN75 LATITUDE 30°10'01.5"N MARSDEN SQUARE 117 LENGTH 223.0 ANALYZED 11JAN75
SAMPLE SA 2A DEPTH 12.8 LONGITUDE 85°42'43.0W CORER TYPE HYG PENETRATION .0

	SUBSAMPLE ID.	484 6	484 7	484 8	484 9	484 10	484 11
	DEPTH INTERVAL	20.0- 30.0	50.0- 60.0	80.0- 90.0	110.0-120.0	130.0-140.0	160.0-170.0
DIAM (PHI)	DIAM (MM)	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
<-4	>16.000	.000	.000	.000	.000	.000	.000
-4 TO -3	16.000 TO 8.000	.000	.000	.000	.000	.000	.000
-3 TO -2	8.000 TO 4.000	.000	.000	.000	.000	.000	.000
-2 TO -1	4.000 TO 2.000	.000	.000	.000	.000	.000	.580
-1 TO 0	2.000 TO 1.000	.000	.000	3.342	1.313	.000	.290
0 TO 1	1.000 TO .500	3.640	.666	.963	.507	.816	.621
1 TO 2	.500 TO .250	2.141	3.738	5.183	.537	.816	2.983
2 TO 3	.250 TO .125	7.623	19.816	25.375	23.493	6.058	22.929
3 TO 4	.125 TO .063	3.212	4.839	5.438	5.731	3.146	11.475
4 TO 5	.063 TO .031	7.152	4.506	4.475	5.582	4.699	8.202
5 TO 6	.031 TO .016	7.923	3.840	3.257	3.433	5.049	4.350
6 TO 7	.016 TO .008	20.771	17.153	8.355	5.373	16.117	11.806
7 TO 8	.008 TO .004	11.563	18.689	14.019	12.239	14.951	13.463
8 TO 9	.004 TO .002	4.497	2.816	4.106	5.224	5.825	5.385
9 TO 10	.002 TO .001	7.066	7.296	7.647	17.463	12.233	8.285
>10	<.001	24.411	16.641	17.842	19.104	30.291	9.631
	GRAVEL (>2.0 MM)	.000	.000	.000	.000	.000	.580
	SAND (2.0-.063 MM)	16.617	29.058	40.300	31.582	10.835	38.297
	SILT (.063-.004 MM)	47.409	44.188	30.105	26.527	40.816	37.821
	CLAY (<.004 MM)	35.974	26.754	29.595	41.791	48.350	23.302
	MEAN (MM)	.0081	.0124	.0178	.0103	.0046	.0199
	MEAN (PHI)	6.945	6.335	5.814	6.608	7.774	5.654
	STANDARD DEVIATION	2.891	2.931	3.379	3.231	2.588	2.911
	SKEWNESS	.211	.064	.005	.137	.354	.072
	KURTOSIS	.695	-1.197	-1.355	-1.400	.372	-1.131
	CALCIUM CARBONATE	25.100	18.300	14.400	17.300	24.600	21.700
	ORGANIC CARBON	3.540	2.787	2.553	2.435	3.436	2.064
	COLOR (GSA)	5Y3/2	5Y3/2	5Y3/2	5Y3/2	5Y3/2	5Y3/2
	DOMINANT CONSTITUENT	QUARTZ	QUARTZ	QUARTZ	QUARTZ	QUARTZ	QUARTZ
	SECONDARY CONSTITUENT	SHELL FRAGS	SHELL FRAGS	SHELL FRAGS	SHELL FRAGS	SHELL FRAGS	SHELL FRAGS

SUBSAMPLE ID. 48A 12
DEPTH INTERVAL 190.0-200.0

DIAM (PHI)	DIAM (MM)	PERCENT
<-4	>16.000	.000
-4 TO -3	16.000 TO 8.000	.000
-3 TO -2	8.000 TO 4.000	.000
-2 TO -1	4.000 TO 2.000	.961
-1 TO 0	2.000 TO 1.000	.668
0 TO 1	1.000 TO .500	.731
1 TO 2	.500 TO .250	3.362
2 TO 3	.250 TO .125	23.450
3 TO 4	.125 TO .063	13.531
4 TO 5	.063 TO .031	5.304
5 TO 6	.031 TO .016	4.489
6 TO 7	.016 TO .008	12.633
7 TO 8	.008 TO .004	8.875
8 TO 9	.004 TO .002	3.550
9 TO 10	.002 TO .001	6.995
>10	<.001	15.452

GRAVEL (>2.0 MM)	.961
SAND (2.0-.063 MM)	41.741
SILT (.063-.004 MM)	31.301
CLAY (<.004 MM)	25.997
MEAN (MM)	.019
MEAN (PHI)	5.657
STANDARD DEVIATION	3.146
SKEWNESS	.091
KURTOSIS	-1.162
CALCIUM CARBONATE	27.300
ORGANIC CARBON	2.010
COLOR (GSA)	5Y3/2
DOMINANT CONSTITUENT	QUARTZ
SECONDARY CONSTITUENT	SHELL FRAGS

SEDIMENT SIZE AND COMPOSITION DATA

CRUISE NCSL TAKEN 7JAN75 LATITUDE 30°08'54.0"N MARSDEN SQUARE 117 LENGTH 215.0 ANALYZED 11JAN75
SAMPLE SA 5B DEPTH 12.8 LONGITUDE 85°40'41.0"W CORER TYPE HYG PENETRATION .0

	SUBSAMPLE ID.	484 13	484 14	484 15	484 16	484 17	484 18
	DEPTH INTERVAL	30.0- 40.0	50.0- 60.0	70.0- 80.0	110.0-120.0	145.0-155.0	175.0-185.0
DIAM (PHI)	DIAM (MM)	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
<-4	>16.000	.000	.000	.000	.000	.000	.000
-4 TO -3	16.000 TO 8.000	.000	.000	.000	.000	.000	.000
-3 TO -2	8.000 TO 4.000	.000	.000	.000	.000	.000	.000
-2 TO -1	4.000 TO 2.000	.000	.000	.000	.000	.000	.000
-1 TO 0	2.000 TO 1.000	.000	.935	7.094	.000	1.311	1.911
0 TO 1	1.000 TO .500	.000	.094	.333	1.680	.990	1.383
1 TO 2	.500 TO .250	1.915	.421	1.142	3.058	3.505	5.129
2 TO 3	.250 TO .125	2.149	1.918	4.617	13.239	12.363	16.847
3 TO 4	.125 TO .063	5.091	4.210	7.663	22.211	20.177	22.253
4 TO 5	.063 TO .031	12.611	16.885	13.946	6.216	3.318	5.331
5 TO 6	.031 TO .016	14.012	9.355	5.236	10.417	5.352	6.538
6 TO 7	.016 TO .008	28.491	32.741	19.515	15.625	29.569	19.990
7 TO 8	.008 TO .004	5.838	2.572	8.329	6.720	5.352	8.926
8 TO 9	.004 TO .002	3.036	.234	3.808	.840	2.542	2.263
9 TO 10	.002 TO .001	4.204	3.742	5.950	3.864	5.352	4.400
>10	<.001	22.653	26.894	27.368	16.129	10.169	5.029
	GRAVEL (>2.0 MM)	.000	.000	.000	.000	.000	.000
	SAND (2.0-.063 MM)	9.155	7.577	15.850	40.188	38.346	47.523
	SILT (.063-.004 MM)	60.953	61.553	47.025	38.978	43.591	40.785
	CLAY (<.004 MM)	29.893	30.870	37.125	20.833	18.063	11.692
	MEAN (MM)	.0082	.0079	.0080	.0197	.0203	.0317
	MEAN (PHI)	6.925	6.992	6.963	5.667	5.626	4.981
	STANDARD DEVIATION	2.435	2.547	2.899	2.859	2.712	2.601
	SKEWNESS	.070	.025	.160	.214	.087	.164
	KURTOSIS	.842	.664	.719	.946	.718	.577
	COLOR (GSA)	5Y3/2	5Y3/2	5Y3/2	5Y3/2	5Y3/2	5Y3/2
	DOMINANT CONSTITUENT	QUARTZ	QUARTZ	QUARTZ	QUARTZ	QUARTZ	QUARTZ
	SECONDARY CONSTITUENT	SHELL FRAGS	SHELL FRAGS	SHELL FRAGS	SHELL FRAGS	SHELL FRAGS	SHELL FRAGS

SUBSAMPLE ID. 484 19
DEPTH INTERVAL 200.0-210.0

DIAM (PHI)	DIAM (MM)	PERCENT
<-4	>16.000	.000
-4 TO -3	16.000 TO 8.000	.000
-3 TO -2	8.000 TO 4.000	.000
-2 TO -1	4.000 TO 2.000	1.228
-1 TO 0	2.000 TO 1.000	.955
0 TO 1	1.000 TO .500	1.774
1 TO 2	.500 TO .250	6.504
2 TO 3	.250 TO .125	17.557
3 TO 4	.125 TO .063	20.355
4 TO 5	.063 TO .031	8.642
5 TO 6	.031 TO .016	1.137
6 TO 7	.016 TO .008	17.057
7 TO 8	.008 TO .004	8.870
8 TO 9	.004 TO .002	2.729
9 TO 10	.002 TO .001	5.003
>10	<.001	8.187

GRAVEL (>2.0 MM)	1.228
SAND (2.0-.063 MM)	47.146
SILT (.063-.004 MM)	35.706
CLAY (<.004 MM)	15.920

MEAN (MM)	.0307
MEAN (PHI)	5.027
STANDARD DEVIATION	2.882
SKEWNESS	.164
KURTOSIS	.701

COLOR (GSA)	5Y3/2
DOMINANT CONSTITUENT	QUARTZ
SECONDARY CONSTITUENT	SHELL FRAGS

SEDIMENT SIZE AND COMPOSITION DATA

CRUISE NCSL
SAMPLE SA 7B

TAKEN 7JAN75
DEPTH 12.8

LATITUDE 30° 08' 54.0"N
LONGITUDE 85° 40' 37.0"W

MARSDEN SQUARE 117
CORER TYPE HYG

LENGTH 217.0
PENETRATION .0

ANALYZED 13JAN75

	SUBSAMPLE ID.	484 20	484 21	484 22	484 23	484 24	484 25
	DEPTH INTERVAL	10.0- 20.0	40.0- 50.0	70.0- 80.0	100.0-110.0	140.0-150.0	175.0-185.0
DIAM (PHI)	DIAM (MM)	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
<-4	>16.000	.000	.000	.000	.000	.000	.000
-4 TO -3	16.000 TO 8.000	.000	.000	.000	.000	.000	.000
-3 TO -2	8.000 TO 4.000	.000	.000	.000	.000	.000	.000
-2 TO -1	4.000 TO 2.000	.000	.000	.000	.000	.000	.809
-1 TO 0	2.000 TO 1.000	.000	.000	1.287	.723	.000	.836
0 TO 1	1.000 TO .500	.764	.000	.454	.528	.789	.674
1 TO 2	.500 TO .250	.446	.650	1.703	2.030	1.053	1.888
2 TO 3	.250 TO .125	1.400	.731	5.640	9.789	6.086	10.170
3 TO 4	.125 TO .063	7.320	3.898	13.626	26.057	19.342	25.816
4 TO 5	.063 TO .031	12.731	17.377	8.970	2.475	5.132	7.068
5 TO 6	.031 TO .016	17.187	3.248	9.841	4.449	1.809	6.070
6 TO 7	.016 TO .008	24.507	22.940	22.332	14.739	39.638	22.120
7 TO 8	.008 TO .004	2.546	8.120	7.192	9.872	7.072	.809
8 TO 9	.004 TO .002	2.546	1.827	3.596	13.070	1.645	.809
9 TO 10	.002 TO .001	10.821	9.947	6.056	4.310	4.605	9.172
>10	<.001	19.733	31.263	19.304	11.958	12.829	13.758
	GRAVEL (>2.0 MM)	.000	.000	.000	.000	.000	.809
	SAND (2.0-.063 MM)	9.930	5.278	22.710	39.127	27.270	39.385
	SILT (.063-.004 MM)	56.970	51.685	48.335	31.535	53.651	36.067
	CLAY (<.004 MM)	33.100	43.037	28.955	29.338	19.079	23.739
	MEAN (MM)	.0083	.0051	.0112	.0154	.0135	.0191
	MEAN (PHI)	6.920	7.608	6.483	6.017	6.211	5.708
	STANDARD DEVIATION	2.456	2.486	2.767	2.792	2.451	2.894
	SKEWNESS	.062	.089	.021	.039	.079	.141
	KURTOSIS	.949	-1.287	.793	-1.156	.630	.800
	CALCIUM CARBONATE	30.100	28.100	26.400	24.200	34.100	34.100
	ORGANIC CARBON	4.788	4.209	2.931	2.393	2.456	1.938
	COLOR (GSA)	5Y3/2	5Y3/2	5Y3/2	5Y3/2	5Y3/2	5Y3/2
	DOMINANT CONSTITUENT	QUARTZ	QUARTZ	QUARTZ	QUARTZ	QUARTZ	QUARTZ
	SECONDARY CONSTITUENT	SHELL FRAGS	SHELL FRAGS	SHELL FRAGS	SHELL FRAGS	SHELL FRAGS	SHELL FRAGS

SUBSAMPLE ID. 484 26
DEPTH INTERVAL 200.0-210.0

DIAM (PHI)	DIAM (MM)	PERCENT
<-4	>16.000	.000
-4 TO -3	16.000 TO 8.000	.000
-3 TO -2	8.000 TO 4.000	.000
-2 TO -1	4.000 TO 2.000	1.019
-1 TO 0	2.000 TO 1.000	1.483
0 TO 1	1.000 TO .500	1.367
1 TO 2	.500 TO .250	3.475
2 TO 3	.250 TO .125	13.644
3 TO 4	.125 TO .063	23.929
4 TO 5	.063 TO .031	1.691
5 TO 6	.031 TO .016	7.528
6 TO 7	.016 TO .008	19.574
7 TO 8	.008 TO .004	5.791
8 TO 9	.004 TO .002	4.170
9 TO 10	.002 TO .001	3.475
>10	<.001	12.856

GRAVEL (>2.0 MM)	1.019
SAND (2.0-.063 MM)	43.896
SILT (.063-.004 MM)	34.584
CLAY (<.004 MM)	20.500

MEAN (MM)	.0229
MEAN (PHI)	5.446
STANDARD DEVIATION	2.950
SKEWNESS	.102
KURTOSIS	.745

CALCIUM CARBONATE	31.900
ORGANIC CARBON	1.788
COLOR (GSA)	5Y3/2
DOMINANT CONSTITUENT	QUARTZ
SECONDARY CONSTITUENT	SHELL FRAGS

SEDIMENT SIZE AND COMPOSITION DATA

CRUISE NCSL
SAMPLE SA 9

TAKEN 9JAN75
DEPTH 12.8

LATITUDE 30° 10' 17.0" N
LONGITUDE 85° 44' 10.0" W

MARSDEN SQUARE 117
CORER TYPE HYG

LENGTH 207.0
PENETRATION .0

ANALYZED 14JAN75

	SUBSAMPLE ID.	484 27	484 28	484 29	484 30
	DEPTH INTERVAL	23.0- 33.0	50.0- 60.0	29.0-850.0	140.0-150.0
DIAM (PHI)	DIAM (MM)	PERCENT	PERCENT	PERCENT	PERCENT
<-4	>16.000	.000	.000	16.805	.000
-4 TO -3	16.000 TO 8.000	.000	.000	.000	.000
-3 TO -2	8.000 TO 4.000	.000	.000	.000	.000
-2 TO -1	4.000 TO 2.000	.277	.706	2.070	.671
-1 TO 0	2.000 TO 1.000	.706	.235	.601	.849
0 TO 1	1.000 TO .500	1.362	.757	.991	1.718
1 TO 2	.500 TO .250	7.237	10.476	5.961	6.615
2 TO 3	.250 TO .125	36.838	39.415	25.650	10.486
3 TO 4	.125 TO .063	11.750	15.369	14.576	11.039
4 TO 5	.063 TO .031	1.236	.589	1.857	3.160
5 TO 6	.031 TO .016	5.421	4.876	3.273	18.167
6 TO 7	.016 TO .008	15.885	4.288	10.083	16.094
7 TO 8	.008 TO .004	5.169	6.053	4.069	12.243
8 TO 9	.004 TO .002	.504	3.615	2.477	4.739
9 TO 10	.002 TO .001	2.143	4.876	2.830	6.220
>10	<.001	11.473	8.744	8.756	7.998
	GRAVEL (>2.0 MM)	.277	.706	18.875	.671
	SAND (2.0-.063 MM)	57.892	66.252	47.780	30.707
	SILT (.063-.004 MM)	27.711	15.806	19.282	49.664
	CLAY (<.004 MM)	14.120	17.236	14.063	18.957
	MEAN (MM)	.0394	.0477	.1184	.0195
	MEAN (PHI)	4.665	4.389	3.078	5.681
	STANDARD DEVIATION	2.934	2.967	4.406	2.753
	SKEWNESS	.373	.456	.120	.048
	KURTOSIS	.577	.470	.529	.616
	COLOR (GSA)	5Y3/2	5Y3/2	5Y3/2	5Y3/2
	DOMINANT CONSTITUENT	QUARTZ	QUARTZ	QUARTZ	QUARTZ
	SECONDARY CONSTITUENT	SHELL FRAGS	SHELL FRAGS	SHELL FRAGS	SHELL FRAGS

SEDIMENT SIZE AND COMPOSITION DATA

CRUISE NCSL
SAMPLE SA 10

TAKEN 9JAN75 LATITUDE 30° 09' 04.5"N MARSDEN SQUARE 117 LENGTH 145.0 ANALYZED 14JAN75
DEPTH 9.8 LONGITUDE 85° 42' 29.0"W CORER TYPE HVG PENETRATION .0

	SUBSAMPLE ID.	484 31	484 32
	DEPTH INTERVAL	15.0-25.0	35.0-45.0
DIAM (PHI)	DIAM (MM)	PERCENT	PERCENT
<-4	>16.000	.000	.000
-4 TO -3	16.000 TO 8.000	.000	.000
-3 TO -2	8.000 TO 4.000	.000	.000
-2 TO -1	4.000 TO 2.000	.000	.000
-1 TO 0	2.000 TO 1.000	.000	.965
0 TO 1	1.000 TO .500	1.114	.832
1 TO 2	.500 TO .250	2.013	4.626
2 TO 3	.250 TO .125	19.770	29.551
3 TO 4	.125 TO .063	10.065	7.920
4 TO 5	.063 TO .031	9.705	5.358
5 TO 6	.031 TO .016	4.134	2.829
6 TO 7	.016 TO .008	10.424	7.321
7 TO 8	.008 TO .004	13.839	9.318
8 TO 9	.004 TO .002	2.876	1.830
9 TO 10	.002 TO .001	2.876	7.654
>10	<.001	23.185	21.797
	GRAVEL (>2.0 MM)	.000	.000
	SAND (2.0-.063 MM)	32.967	43.894
	SILT (.063-.004 MM)	38.102	24.825
	CLAY (<.004 MM)	28.936	31.281
	MEAN (MM)	.0135	.0176
	MEAN (PHI)	6.214	5.827
	STANDARD DEVIATION	3.089	3.392
	SKEWNESS	.052	.094
	KURTOSIS	-1.369	-1.514
	COLOR (GSA)	5Y3/2	5Y3/2
	DOMINANT CONSTITUENT	QUARTZ	QUARTZ
	SECONDARY CONSTITUENT	SHELL FRAGS	SHELL FRAGS

PRNC-NAVOCEANO-3167/18 B (4-63)

CORE ANALYSIS SUMMARY SHEET
ENGINEERING PROPERTIES

ANALYZED BY Stiles

DATE 12-1-75

1. CRUISE NO. NCSL
2. LATITUDE 30° 09' 59.0" N
3. LONGITUDE 85° 42' 43.0" W
4. SAMPLE NO. SA-1A
5. DATE TAKEN (Day, month, year) 7-1-75
6. WATER DEPTH (m) 12.8
7. TYPE CORER HYG
8. CORE LENGTH (cm) 206
9. CORER PENETRATION (cm) —

10. SUBSAMPLE DEPTH IN CORE (cm)		30-40	50-60	90-100	130-140	170-180						
11. WET UNIT WEIGHT (g/cm³)		1.25	1.27	1.35	1.47	1.46						
12. SPECIFIC GRAVITY OF SOLIDS *		2.57	2.57	2.57	2.57	2.57						
13. WATER CONTENT (% dry weight)		199.72	182.87	140.02	87.48	95.41						
14. VOID RATIO		5.161	4.704	3.554	2.282	2.448						
15. SATURATED VOID RATIO		5.132	4.700	3.598	2.248	2.452						
16. POROSITY (%)		83.8	82.5	78.0	69.5	71.0						
17. LIQUID LIMIT		-	-	41.8	-	34.2						
18. PLASTIC LIMIT		-	-	23.0	-	20.4						
19. PLASTICITY INDEX		-	-	18.8	-	13.8						
20. LIQUIDITY INDEX												
21. COMPRESSION INDEX FROM LL												
22. Fall Cone NATURAL (g/cm²)		6.9	6.9	18	42	60						
22. Fall Cone REMOLD (g/cm²)												
23. COHESION NATURAL (g/cm²)		29.3	16.9	—	39.9	57.9						
23. COHESION REMOLD (g/cm²)		5.3	15.1	—	22.2	23.1						
24. SENSITIVITY		5.5	1.1	—	1.8	2.5						
25. ANGLE OF INTERNAL FRICTION (°)												
26. ACTIVITY												
27. MODULUS OF ELASTICITY												
28. SLUMP (%)												

29. REMARKS * Average Specific Gravity in Area "A" (VALUES FROM SA-2A)

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PRNC-NAVOCE/NO-3167/18 B (4-63)

CORE ANALYSIS SUMMARY SHEET
ENGINEERING PROPERTIES

ANALYZED BY Stiles

DATE 11-1-75

1. CRUISE NO. NCSL
2. LATITUDE 30 ° 10 ' 01.5 "N
3. LONGITUDE 85 ° 42 ' 43.0 "W
4. SAMPLE NO. SA-2A
5. DATE TAKEN (Day, month, year) 7-1-75
6. WATER DEPTH (m) 12.8
7. TYPE CORER HYG
8. CORE LENGTH (cm) 223
9. CORER PENETRATION (cm) —

10. SUBSAMPLE DEPTH IN CORE (cm)		20-30	50-60	80-90	110-120	130-140	160-170	190-200					
11. WET UNIT WEIGHT (g/cm³)		1.19	1.30	1.29	1.30	1.23	1.35	1.36					
12. SPECIFIC GRAVITY OF SOLIDS		2.56	2.54	2.56	2.50	2.53	2.56	2.72					
13. WATER CONTENT (% dry weight)		276.04	150.60	171.55	170.68	235.21	143.73	142.81					
14. VOID RATIO		7.078	3.878	4.394	4.219	5.896	3.623	3.857					
15. SATURATED VOID RATIO		7.061	3.822	4.393	4.272	5.948	3.672	3.884					
16. POROSITY (%)		87.6	79.5	81.5	80.8	85.5	78.4	79.4					
17. LIQUID LIMIT													
18. PLASTIC LIMIT													
19. PLASTICITY INDEX													
20. LIQUIDITY INDEX													
21. COMPRESSION INDEX FROM LL													
22. Fall-Cone	NATURAL (g/cm²)	5.1	94	23	23	35	42	31					
	REMOLD (g/cm²)												
23. COHESION	NATURAL (g/cm²)	12.4	50.8	41.7	39.0	43.5	40.8	39.9					
	REMOLD (g/cm²)	—	19.5	15.1	14.2	16.0	23.9	22.2					
24. SENSITIVITY			2.6	2.8	2.7	2.7	1.7	1.8					
25. ANGLE OF INTERNAL FRICTION (°)													
26. ACTIVITY													
27. MODULUS OF ELASTICITY													
28. SLUMP (%)													

29. REMARKS

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PRNC-NAVOCEANO-3167/18 B (4-63)

CORE ANALYSIS SUMMARY SHEET
ENGINEERING PROPERTIES

ANALYZED BY Stiles

DATE 14-1-75

1. CRUISE NO. NCSL
2. LATITUDE 30° 09 ' 59.0 "N
3. LONGITUDE 85° 42 ' 40.0 "W
4. SAMPLE NO. SA-4A
5. DATE TAKEN (Day, month, year) 7-1-75
6. WATER DEPTH (m) 12.8
7. TYPE CORER HYG
8. CORE LENGTH (cm) 223
9. CORER PENETRATION (cm)

10. SUBSAMPLE DEPTH IN CORE (cm)		20-30	50-60	80-90	110-120	140-150	160-170	190-200				
11. WET UNIT WEIGHT (g/cm^3) **		1.19	1.22	1.24	1.33	1.22	1.33	1.29				
12. SPECIFIC GRAVITY OF SOLIDS *		2.57	2.57	2.57	2.57	2.57	2.57	2.57				
13. WATER CONTENT (% dry weight)		275.97	236.45	210.49	147.44	240.59	146.33	171.44				
14. VOID RATIO		–	–	–	–	–	–	–				
15. SATURATED VOID RATIO **		7.092	6.077	5.410	3.789	6.183	3.761	4.406				
16. POROSITY (%) **		87.6	85.9	84.4	79.1	86.1	79.0	81.5				
17. LIQUID LIMIT												
18. PLASTIC LIMIT												
19. PLASTICITY INDEX												
20. LIQUIDITY INDEX												
21. COMPRESSION INDEX FROM LL												
22. COMPRESSIVE STRENGTH NATURAL (g/cm^2)												
REMOLD (g/cm^2)												
23. COHESION • NATURAL (g/cm^2)		14.2	14.2	16.9	36.4	41.7	53.2	38.1				
REMOLD (g/cm^2)		3.1	2.7	7.1	14.2	–	11.5	19.5				
24. SENSITIVITY		4.6	5.2	2.4	2.6	–	4.6	1.9				
25. ANGLE OF INTERNAL FRICTION (°)												
26. ACTIVITY												
27. MODULUS OF ELASTICITY												
28. SLUMP (%)												

29. REMARKS * Average Specific Gravity in Area "A" (Values from SA-2A)
** Computed on the basis of 100% saturation
• Vane shear measurements performed in Core barrel.

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PRNC-NAVOCEANO-3167/18 B (4-63)

CORE ANALYSIS SUMMARY SHEET
ENGINEERING PROPERTIES

ANALYZED BY Stiles

DATE 11-1-75

1. CRUISE NO. NCSL	4. SAMPLE NO. SA-5B	7. TYPE CORER HYG
2. LATITUDE 30 ° 08 ' 54.0 "N	5. DATE TAKEN (Day, month, year) 7-1-75	8. CORE LENGTH (cm) 215
3. LONGITUDE 85 ° 40 ' 41.0 "W	6. WATER DEPTH (m) 12.8	9. CORER PENETRATION (cm) —

10. SUBSAMPLE DEPTH IN CORE (cm)		30-40	50-60	70-80	110-120	145-155	175-185	200-210				
11. WET UNIT WEIGHT (g/cm³)		1.17	1.19	1.23	1.32	1.37	1.40	1.43				
12. SPECIFIC GRAVITY OF SOLIDS *		2.53	2.53	2.53	2.53	2.53	2.53	2.53				
13. WATER CONTENT (% dry weight)		319.73	276.45	232.78	164.00	135.82	119.24	110.14				
14. VOID RATIO		8.042	7.000	5.859	4.078	3.361	2.948	2.717				
15. SATURATED VOID RATIO		8.089	6.994	5.889	4.149	3.436	3.017	2.786				
16. POROSITY (%)		88.9	87.5	85.4	80.3	77.1	74.7	73.1				
17. LIQUID LIMIT												
18. PLASTIC LIMIT												
19. PLASTICITY INDEX												
20. LIQUIDITY INDEX												
21. COMPRESSION INDEX FROM LL												
22. Fall-Cone NATURAL (g/cm²)		10	10	16	60	18	42	31				
REMOLD (g/cm²)												
23. COHESION NATURAL (g/cm²)		6.2	21.3	17.7	33.7	32.9	62.1	62.1				
REMOLD (g/cm²)		0.9	6.2	6.2	13.3	14.6	29.2	—				
24. SENSITIVITY		6.9	3.4	2.8	2.5	2.2	2.1	—				
25. ANGLE OF INTERNAL FRICTION (°)												
26. ACTIVITY												
27. MODULUS OF ELASTICITY												
28. SLUMP (%)												

29. REMARKS * Average Specific Gravity in Area "B" (Values from SA-7B)

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PRNC-NAVOCEANO-3167/18 B (4-63)

CORE ANALYSIS SUMMARY SHEET
ENGINEERING PROPERTIES

ANALYZED BY Stiles

DATE 13-1-75

1. CRUISE NO. NCSL	4. SAMPLE NO. SA-7B	7. TYPE CORER HYG
2. LATITUDE 30° 08' 54.0" N	5. DATE TAKEN (Day, month, year) 7-1-75	8. CORE LENGTH (cm) 217
3. LONGITUDE 85° 40' 37.0" W	6. WATER DEPTH (m) 12.8	9. CORER PENETRATION (cm) —

10. SUBSAMPLE DEPTH IN CORE (cm)	10-20	40-50	70-80	100-110	140-150	175-185	200-210					
11. WET UNIT WEIGHT (g/cm³)	1.17	1.19	1.28	1.32	1.35	1.36	1.38					
12. SPECIFIC GRAVITY OF SOLIDS	2.46	2.47	2.51	2.60	2.49	2.57	2.61					
13. WATER CONTENT (% dry weight)	312.93	282.69	183.72	153.47	141.94	131.49	127.73					
14. VOID RATIO	7.658	6.949	4.543	3.992	3.464	3.362	3.320					
15. SATURATED VOID RATIO	7.689	6.991	4.604	3.984	3.536	3.381	3.334					
16. POROSITY (%)	88.4	87.4	82.0	80.0	77.6	77.1	76.8					
17. LIQUID LIMIT												
18. PLASTIC LIMIT												
19. PLASTICITY INDEX												
20. LIQUIDITY INDEX												
21. COMPRESSION INDEX FROM LL												
22. Fall Cone NATURAL (g/cm²)	3.9	6.9	-	31	65	17	15					
REMOLD (g/cm²)												
23. COHESION NATURAL (g/cm²)	12.4	19.5	30.2	28.4	55.9	27.1	38.1					
REMOLD (g/cm²)	8.0	9.8	25.7	16.0	25.7	11.5	21.3					
24. SENSITIVITY	1.6	2.0	1.2	1.8	2.2	2.4	1.8					
25. ANGLE OF INTERNAL FRICTION (°)												
26. ACTIVITY												
27. MODULUS OF ELASTICITY												
28. SLUMP (%)												

29. REMARKS

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PRNC-NAVOCEANO-3167/18 B (4-63)

CORE ANALYSIS SUMMARY SHEET
ENGINEERING PROPERTIES

ANALYZED BY Stiles
DATE 14-1-75

1. CRUISE NO. NCSL	4. SAMPLE NO. SA-9 (Site 8)*	7. TYPE CORER HYG
2. LATITUDE 30° 10' 17.0" N	5. DATE TAKEN (Day, month, year) 9-1-75	8. CORE LENGTH (cm) 207
3. LONGITUDE 85° 44' 10.0" W	6. WATER DEPTH (m) 12.8	9. CORER PENETRATION (cm) —

10. SUBSAMPLE DEPTH IN CORE (cm)		23-33	50-60	85-95	140-150	190-200						
11. WET UNIT WEIGHT (g/cm³)		1.33	1.48	1.43	1.45	1.32						
12. SPECIFIC GRAVITY OF SOLIDS *		2.53	2.53	2.53	2.53	2.53						
13. WATER CONTENT (% dry weight)		161.67	92.14	102.04	102.71	152.43						
14. VOID RATIO		4.000	2.285	2.571	2.548	3.826						
15. SATURATED VOID RATIO		4.090	2.331	2.582	2.598	3.856						
16. POROSITY (%)		80.0	69.56	72.0	71.8	79.3						
17. LIQUID LIMIT												
18. PLASTIC LIMIT												
19. PLASTICITY INDEX												
20. LIQUIDITY INDEX												
21. COMPRESSION INDEX FROM LL												
22. Fall-Cone NATURAL (g/cm²)				16	<16	60						
REMOLD (g/cm²)												
23. COHESION NATURAL (g/cm²)		12.9	33.7	16.8	48.8	60.0						
REMOLD (g/cm²)		8.9	10.6	9.8	11.5	19.5						
24. SENSITIVITY		1.4	3.2	1.7	4.2	3.1						
25. ANGLE OF INTERNAL FRICTION (°)												
26. ACTIVITY												
27. MODULUS OF ELASTICITY												
28. SLUMP (%)												

29. REMARKS * Assumed Specific Gravity (From Average of SA-7B)

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PRNC-NAVOCEANO-3167/18 B (4-63)

CORE ANALYSIS SUMMARY SHEET
ENGINEERING PROPERTIES

ANALYZED BY Stiles

DATE 14-1-75

1. CRUISE NO. NCSL
2. LATITUDE 30 ° 09 ' 04.5 "N
3. LONGITUDE 85 ° 42 ' 29.0 "W
4. SAMPLE NO. SA-10 (site 5)
5. DATE TAKEN (Day, month, year) 9-1-75
6. WATER DEPTH (m) 9.8
7. TYPE CORER HYG
8. CORE LENGTH (cm) 145
9. CORER PENETRATION (cm) —

10. SUBSAMPLE DEPTH IN CORE (cm)		15-25		35-45		72-82						
11. WET UNIT WEIGHT (g/cm³)		1.28		-		1.24						
12. SPECIFIC GRAVITY OF SOLIDS *		2.53		2.53		2.53						
13. WATER CONTENT (% dry weight)		204.25		196.75		187.05						
14. VOID RATIO		5.033		-		4.842						
15. SATURATED VOID RATIO		5.167		-		4.732						
16. POROSITY (%)		83.4		-		82.9						
17. LIQUID LIMIT												
18. PLASTIC LIMIT												
19. PLASTICITY INDEX												
20. LIQUIDITY INDEX												
21. COMPRESSION INDEX FROM LL												
22. COMPRESSIVE STRENGTH NATURAL (g/cm²)												
REMOLD (g/cm²)												
23. COHESION NATURAL (g/cm²)		13.3		13.3		31.0						
REMOLD (g/cm²)		4.4		2.7		8.0						
24. SENSITIVITY		3.0		4.9		3.9						
25. ANGLE OF INTERNAL FRICTION (°)												
26. ACTIVITY												
27. MODULUS OF ELASTICITY												
28. SLUMP (%)												

29. REMARKS * Assumed Specific Gravity (From Average of SA-7B)

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PRNC-NAVOCEANO-3167/18 B (4-63)

CORE ANALYSIS SUMMARY SHEET
ENGINEERING PROPERTIES

ANALYZED BY Stiles

DATE 13-1-75

1. CRUISE NO. NCSL	4. SAMPLE NO. SA-11B	7. TYPE CORER HYG
2. LATITUDE 30° 08' 50.5 "N	5. DATE TAKEN (Day, month, year) 9-1-75	8. CORE LENGTH (cm) 206
3. LONGITUDE 85° 40' 37.0 "W	6. WATER DEPTH (m) 12.8	9. CORER PENETRATION (cm) —

10. SUBSAMPLE DEPTH IN CORE (cm)	20-30		40-50		100-110		133-143	175-183	190-195			
11. WET UNIT WEIGHT (g/cm³) **	1.18		-		1.26		1.34	-	1.40			
12. SPECIFIC GRAVITY OF SOLIDS *	2.53		2.53		2.53		2.53	-	2.53			
13. WATER CONTENT (% dry weight)	302.87		-		190.87		139.57	-	112.25			
14. VOID RATIO								-				
15. SATURATED VOID RATIO **	7.663		-		4.829		3.531	-	2.840			
16. POROSITY (%) **	88.4		-		82.8		77.9	-	73.9			
17. LIQUID LIMIT	-		158.8		146.2		-	87.6	-			
18. PLASTIC LIMIT	-		51.7		46.2		-	31.0	-			
19. PLASTICITY INDEX	-		107.1		100.0		-	56.6	-			
20. LIQUIDITY INDEX												
21. COMPRESSION INDEX FROM LL												
22. COMPRESSIVE STRENGTH NATURAL (g/cm²)												
REMOLD (g/cm²)												
23. COHESION • NATURAL (g/cm²)	9.8		23.9		28.4		57.9		41.7			
REMOLD (g/cm²)	0.9		4.4		4.4		7.1		6.2			
24. SENSITIVITY	10.9		5.4		6.4		8.2		6.7			
25. ANGLE OF INTERNAL FRICTION (°)												
26. ACTIVITY												
27. MODULUS OF ELASTICITY												
28. SLUMP (%)												

29. REMARKS • Vane shear measurements performed in core barrel

* Assumed Specific Gravity (From Average SA-7B)

** Computed on the basis of 100% Saturation

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TRANSMITTAL AND TRANSFER RECORD
NDW-NAVOCEANO-4610/1 (Rev. 9-63)

U.S. NAVAL OCEANOGRAPHIC OFFICE
WASHINGTON, D.C. 20390

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Code 3412	J. Kravitz 433-2490
TO	**ATTENTION**
NGSDC Code D 62	M. Weiss

THE ITEMS LISTED BELOW WERE FORWARDED TO YOU BY:

[XX] ORDINARY MAIL [ ] REGISTERED MAIL [ ] AIR MAIL [ ] EXPRESS [ ] GOVERNMENT TRUCK [ ] BY HAND [ ] OTHER

One copy of Lab Item 484;

ROD

A SUMMARY OF SEDIMENT SIZE, CHEMISTRY, X-RADIOGRAPHY, SOUND VELOCITY, ENGINEERING AND MASS PHYSICAL PROPERTIES OF ELEVEN CORES FROM ST. ANDREW BAY, FLORIDA. MIKE BOAT. JAN. 1975.

FORWARDED BY (Signature)	TITLE	DATE FORWARDED
J. Kravitz J. Kravitz	Head, Geological Lab	
RECEIVED BY (Signature)	**TITLE**	**DATE RECEIVED**
Rod Combellick	Geologist	12-8-75

GPO 907-550

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