CORE No. 3F	Date: 1-26-76	Logged by: BE	CORE ANALYSIS SUMMARY SHEET
Location: UPP. ATL. Cont. Rise	Project Name: Comsed 75		Sample Type: Hydroplastic Pilot (5')
Latitude: 39° 14.2	Date Sampled: 9-9-75		Water Depth: 1515 (fms) (m)
Longitude: 69° 18.2	Core Serial No.: 3F		Core Length: 91 (cm)

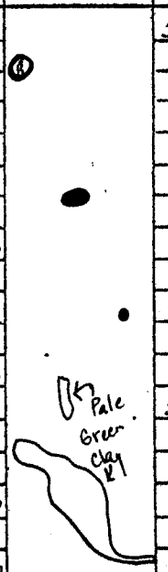
NOTES: X-rays show well mixed sediments with numerous recent worm burrows. Slight density changes noted in X-rays, which probably correspond to mottled appearance of the silty-clay upon visual inspection

MGG 03005012

REMARKS: (color, shells, bedding, structure, etc.)

0–28 cm – silty clay, 5Y 4/3. Recent worm burrow in 11 cm.
8–91 cm. – silty clay w/ forams and Qtz. sand. This section is mottled throughout and contains vertical structures with forams at 64–68 cm. and 70–86 cm. Recent worm burrows noted at 31, 49, 64 and 73 cm.
Sand fraction viewed at top and 72 cm., showing abundant planktonic forams making up sand fraction at 0–1 cm and Qtz. sand being predominant at 72 cm.

Core Sketch (depth in core)



Sample Interval (cm)	Color	Sed. Type (visual)	Specific Gravity of Solids (Gs)	Wet Unit Weight (g/cm²) (B)	Water Content (% dry weight) (wc)	Cohesion (Cn) KPa Natural (g/cm²)	Cohesion (Cr) KPa Remold (g/cm²)	Sensitivity (St)	Void Ratio (e)	Porosity (%) (n)	Liquid Limit (LL)	Plastic Limit (PL)	Plasticity Index (PI)	Liquidity Index (B)	Sample Interval cm	Size and Composition: Sand %	Silt %	Clay %		Total Carbonate (%)	Organic Carbon (%)	% Heavy Minerals
0-1 / 3-4	5Y 4/3	silty clay	2.72	1.44	106.0 / 108.0	4.5 / 5.8		3.7 / 4.7	2.88	74.2					0-3 / 4-7	4.9 / 7.0	35.0 / 41.3	60.1 / 58.8	34.9 / 41.3			
6-7		w/ abundant	2.69	1.47	96.8		1.2		2.60	72.2	81.4	35.3	46.2	1.48	0-7							
10-11		sand sized	2.70	1.46	99.8	8.6		-1	2.69	72.9					10-13	6.5	34.9	58.6	42.4			
17-18		forams +			101.3		-1								10-17							
20-21		Quartz	2.79	1.47	99.3	5.8		3.9	2.77	73.5					20-23	6.8	35.4	57.8	42.2			
26-27		Grains			90.9		1.5				75.9	38.5	37.4	1.51	20-27							
31-32					94.9																	
35-36					94.3	8.6		4.1							39-42	8.7	35.5	55.8	44.2			
41-42			2.75	1.51	88.4		2.1		2.43	70.9					39-46							
46-47					65.9																	
51-52			2.77	1.63	64.8	4.4		2.7	1.79	64.2					51-54	11.0	33.6	55.4	44.6			
57-58					69.4		1.6				60.6	34.3	26.3	12.5	51-58							
63-64	5Y 3/2				63.1																	
67-68					56.8																	
70-71			2.74	1.68	56.5	5.3		2.4	1.55	60.7					70-73	4.9	42.4	52.7	47.3			
76-77					50.4		2.2								70-77							
81-82					51.2																	
89-90					53.2																	

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CORE No. 3G	Date: 3-2-76	Logged by:	CORE ANALYSIS SUMMARY SHEET	NOTES:
Location: Atl. Cont. Upper Rise	Project Name: Comsed-75		Sample Type: 5' Hydro-Plastic	X-rays show homogeneous sediments with horizontal recent burrows common. Faint mottling noted throughout core
Latitude: 38° 50.3' N	Date Sampled: 9-9-75		Water Depth: 1702 (fms. (m)	
Longitude: 69° 14.6' W	Core Serial No.: 3G		Core Length: 113.5 (cm)	MGG 0 0 0 5 0 1 2

REMARKS: (color, shells, bedding, structure, etc.)	Core Sketch (depth in core)	Color	Sed. Type (visual)	Sample Interval (cm)	Specific Gravity of Solids (Gs)	Wet Unit Weight (B) (g/cm²)	Water Content (% dry weight) (wc)	Cohesion (Cn) KPa Natural (g/cm²)	Cohesion (Cr) KPa Remold (g/cm²)	Sensitivity (St)	Void Ratio (e)	Porosity (%) (n)	Liquid Limit (LL)	Plastic Limit (PL)	Plasticity Index (PI)	Liquidity Index (B)	Sample Interval cm	Size and Composition: Sand %	Silt %	Clay %	Sand + silt	Total Carbonate (%)	Organic Carbon (%)	% Heavy Minerals
Top 1cm oxidized.																								
-20cm Very Dark Grayish	0																							
Brown silty-clay w/forams.		2.5Y 3/2	silty clay	0-1 / 3-4	2.73	1.46	100.6 / 98.48	10.79 / -1		5.11 / -1	2.75	73.31					0-3 / 4-7	5.13	35.04	59.83	40.17			
worm burrow at 5cm.	10		w/ forams	6-7 / 10-11	2.70 / 2.73	1.46 / 1.47	99.64 / 99.04	-1	2.11		2.69 / 2.70	72.90 / 73.40	76.01	37.57	38.44	103.97	0-7	8.3	33.7	58.0	42.0			
(Recent). Some faint mottling				13-14 / 16-17	2.74	1.47	98.68 / 97.34	4.52 / -1		4.62 / -1	2.67	73.73					10-13 / 14-17	7.43 / 5.89	33.32 / 34.48	59.25 / 59.65	40.75 / 40.37			
also noted.	20			21-22			99.20		2.060				-1	-1	-1	-1	10-17							
0-40 cm silty-clay w/				25-26	2.75	1.52	87.12	10.99		3.59	2.40	70.55					25-28	4.34	34.88	61.29	38.71			
abundant sand sized forams	30			31-32			98.48		3.06				71.41	34.50	36.91	142.56	25-32							
color grades to olive-gray				36-37			90.25	11.70		4.24							43-46	3.61	25.08	71.32	28.68			
recent worm burrows at 37cm.	40	5Y 4/2		43-44	2.77	1.48	96.35		2.76		2.67	72.74	-1	-1	-1	-1	43-50							
Layer of sandy-silt w/clay at				49-50			93.81	7.82		5.32							70-73	4.10	26.23	69.67	30.33			
40-41 cm this appears to be a filled	50			55-56			92.19		1.47				69.80	36.91	32.89	103.09	70-77							
burrow.				60-61			98.48	3.70		2.24							105-108	5.49	26.66	67.85	32.15			
40-100cm silty clay w/forams	60			65-66			97.34		1.65				62.57	29.13	33.44	204.16	105-112							
color changes from		2.5Y 3/2		70-71	2.75	1.50	90.55				2.49	71.35												
olive gray to dark gray-	70			76-77			96.62																	
brown. Filled burrows are				81-82			88.43																	
common and are faintly	80			86-87			94.71																	
seen visually. Most are				91-92			97.99																	
filled with coarser material	90			96-97			108.66																	
0-111 cm Bottom of core seems				101-102			95.53																	
to contain less sand (more clay)	100			105-106	2.74	1.47	97.40				2.67	72.74												
+ fewer forams				111-112			67.80																	
Teropod noted at 68cm.	110																							
nd fraction at top 1cm + 21-22cm of																								
re predominantly sand sized																								
anktonic forams. Same for 41-42cm +																								
0-101 cm. Bottom 1cm sand																								
fraction shows a change to																								
ewer PLK. forams + more																								
ERIG. Seds. + mainly fine QTZ sand																								

Gradational change

Grades TO

Recent burrows

↑ End 113.5cm

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CORE No. 3H	Date: 3-3-76	Logged by:	CORE ANALYSIS SUMMARY SHEET	NOTES:
Location: East Cont. Slope / Rise	Project Name: Comsed 75		Sample Type: 5' Hydro-Pilot	X-rays show no visible structures other than filled worm burrows throughout length. Otherwise homogeneous.
Latitude: 38° 25.09 N	Date Sampled: 9-9-75		Water Depth: 1892 (fms (m)	
Longitude: 69° 09.62 W	Core Serial No.: 3 H Pilot		Core Length: 117 (cm)	05012

REMARKS: (color, shells, bedding, structure, etc.)	Core Sketch (depth in core)	Color	Sed. Type (visual)	Sample Interval (cm)	Specific Gravity of Solids (Gs)	Wet Unit (B) Weight (g/cm²)	Water Content (% dry weight) (wc)	Cohesion (Cn) KPa Natural (g/cm²)	Cohesion (Cr) KPa Remold (g/cm²)	Sensitivity (St)	Void Ratio (e)	Porosity (%) (n)	Liquid Limit (LL)	Plastic Limit (PL)	Plasticity Index (PI)	Liquidity Index (B)	Sample Interval cm	Size and Composition: Sand %	Silt %	Clay %	Sand + Silt	Total Carbonate (%)	Organic Carbon (%)	% Heavy Minerals
0-28 cm. – V. Dk. Grayish				0-1 / 3-4	2.74 / 2.74	1.50 / 1.51	91.79 / 88.18	-1 / 11.05		-1 / 9.87	2.52 / 2.42	71.53 / 70.73					0-3 / 4-7	3.43 / 3.48	38.78 / 41.79	57.79 / 55.23	43.34 / 44.78			
brown silty clay.		2.5Y 3/2	silty clay	6-7 / 10-11	2.74	1.51	84 / 88.65		1.12		2.45	70.84	64.37	35.36	29.01	194.52	0-7							
Sediment is homogeneous			w/sand	13-14 / 16-17	2.71	1.53	94.59 / 81.7	4.23 / 10.23		6.28 / 6.46	2.22	68.91					10-13 / 14-17	3.87 / 3.86	40.88 / 49.78	55.22 / 47.34	44.48 / 52.44			
except for v. slightly			size	21-22			88.10		1.47				-1	-1	-1	-1	10-17							
mottled bioturbated			forams	25-26	2.76	1.51	89.29	7.04		5.92	2.46	71.14					25-28	2.36	39.37	58.27	41.73			
sediments at 29-41 cm.				31-32			84.72		1.29				68.28	34.76	33.52	162.68	25-32							
28-39 cm – Dk grayish		10YR 4/2		36-37			80.57	7.35		6.43							43-46	7.16	37.48	55.37	44.63			
brown sediments; homogeneous.				43-44	2.77	1.51	88.08		1.06		2.44	70.43	-1	-1	-1	-1	43-50							
39-46 cm. – Grayish brown		10YR 5/2		49-50			89.64	8.87		7.21							70-73	2.11	33.13	64.76	35.24			
Sediment; homogeneous.				55-56			88.93		1.23				75.04	39.96	35.08	159.26	70-77							
46-117 cm. – olive gray sediment		5Y 4/2		60-61			92.31	5.47		5.47							105-108	2.61	29.14	68.25	31.75			
with recent worm burrows	↑ Recent worm burrows			65-66			89.05		1.00				74.04	30.31	43.73	150.28	105-112							
at 52, 82, 87(2), 96, 101, 106 cm.				70-71	2.71	1.48	95.83				2.60	72.20												
Otherwise homogeneous.				76-77			97.99																	
Sand Fraction – sand fraction				82-83			96.49																	
throughout core shows				88-89			100.33																	
S.F. Dominated by planktonic				93-94			102.53																	
forams. Relatively consistant				99-100			102.34																	
throughout core. Little				105-106	2.77	1.48	96.03				2.66	72.68												
terrigenous materials present.				111-112			97.11																	
				114-115			60.66																	
* Sediment is extremely																								
Brittle at ~60 cm. Through																								
to 117 cm. Vane shear values	End of core (117 cm)																							
(spring #1) are not low, but																								
when fracture takes place, it is																								
rapid.																								

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CORE No. 13C	Date: 12/22/75	Logged by: B. E.	CORE ANALYSIS SUMMARY SHEET
Location: Alt. Cont. Slope	Project Name: Comsed 75		Sample Type: Hydroplastic Pilot (5')
Latitude: 39° 05.51	Date Sampled: 9-13-75		Water Depth: 978 (fms (m))
Longitude: 72° 26.65	Core Serial No.: 13C		Core Length: 81 (cm)

NOTES: Water on top of core. Core seems to have shortened c 3 cm. Top of core soupy. Bottom 16 cm. Taken for direct shear. X-rays show four(4) lenses of fine and silty sand w/clay at ~26 cm, 30 cm, 42 cm. and between 45-48 cm. Clay balls noted throughout X-rays but not in visual inspection of core. Same with sand lenses.

MG0300 5012

REMARKS: (color, shells, bedding, structure, etc.)

0-26 cm – Olive gray to dark olive gray silty clay.
10 cm. – Black rock pebble.
16-65 cm. – Olive gray to dark olive gray silty clay with numerous clay balls.
Note** – variations in vane shear could be due to abundance of clay balls from 26-65 cm. of core.
Sand fraction at top 3 and 63 cm. viewed for constituents. Both are predominately forams with fine sand and abundant mica. At 63 cm. sample contains abundant minute pyrite crystals (one mass has formed in a worm burrow). May be concretionary.
Small clay balls noted in vane interval 30-37 cm. and remainder of vane intervals. Color of clay balls is 2.5Y 3/2.

Core Sketch (depth in core): 0, 10, 20, 30, 40, 50, 60, 70, 80, 90; Direct shear sample; END OF CORE (81 cm)

Sample Interval (cm)	Color	Sed. Type (visual)	Specific Gravity of Solids (Gs)	Wet Unit Weight (B) (g/cm²)	Water Content (% dry weight) (wc)	Cohesion (Cn) KPa Natural (g/cm²)	Cohesion (Cr) KPa Remold (g/cm²)	Sensitivity (St)	Void Ratio (e)	Porosity (%) (n)	Liquid Limit (LL)	Plastic Limit (PL)	Plasticity Index (PI)	Liquidity Index (B)	Sample Interval cm.	Size and Composition: Sand %	Silt %	Clay %	Total Carbonate (%)	Organic Carbon (%)	% Heavy Minerals
0-1	5Y 3.5/2	SILTY CLAY			112.6	1.0		1.7							1-4	7.1	56.7	36.2			
1-2			2.72	1.44	106.4	0.6		1.1	2.90	74.3					5-8	6.4	54.6	38.7			
4-5					46.0																
7-8			2.79	1.50	42.3		0.6		2.58	72.0	63.1	29.5	33.6	1.93	1-8						
11-12					38.2																
14-15			2.71	1.50	43.3	2.6		6.3	2.39	70.5					11-14	8.5	52.5	39.0			
17-18					40.0		0.4								11-18						
20-21			2.72	1.50	40.6	1.8		4.3	2.46	71.1					20-23	7.8	54.5	37.7			
24-27					46.6																
28-29					44.8		0.4				64.3	30.0	34.3	1.76	20-27						
30-31					86.8	1.2		2.9							30-33	19.3	51.5	29.2			
33-34		Silty Clay w/clay Balls	2.70		88.4	1.5		3.7							34-37	5.3	43.7	51.0			
36-37			2.74	1.53	83.7		0.4		2.29	69.6					30-37						
43-44			2.77	1.52	87.6	1.7		3.6	2.43	70.8					43-46	5.7	31.7	62.6			
46-47					84.5										47-50						
49-50			2.76	1.56	77.7	1.5	0.5	3.1	2.14	68.2	80.0	27.6	51.4	1.14	43-50	7.8	47.3	44.9			
55-56					84.1																
60-61			2.78	1.57	77.2	1.9		4.7	2.15	68.2					60-63	4.3	42.3	53.4			
66-67					76.1		0.4								60-67						

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CORE No. 13D	Date: 12-19-75	Logged by: BS	CORE ANALYSIS SUMMARY SHEET
Location: Alt. Cont. Slope	Project Name: Comsed - 75		Sample Type: A-P Pilots 5'
Latitude: 39° 00.09'N	Date Sampled: 9-13-75		Water Depth: 874 (fms ~~(m)~~
Longitude: 72° 19.74'W	Core Serial No.: 13D		Core Length: 38 (cm)

NOTES: X-rays show moderate burrowing activity.

MCG 0 3 0 0 5 0 1 2

REMARKS: (color, shells, bedding, structure, etc.)	Core Sketch (depth in core)	Color	Sed. Type (visual)	Sample Interval (cm)	Specific Gravity of Solids (Gs)	Wet Unit (B) Weight (g/cm²)	Water Content (% dry weight) (wc)	Cohesion (Cn) KPa Natural (g/cm²)	Cohesion (Cr) KPa Remold (g/cm²)	Sensitivity (St)	Void Ratio (e)	Porosity (%) (n)	Liquid Limit (LL)	Plastic Limit (PL)	Plasticity Index (PI)	Liquidity Index (B)	Sample Interval cm.	Size and Composition: Sand %	Silt %	Clay %		Total Carbonate (%)	Organic Carbon (%)	% Heavy Minerals
Top of core slightly oxidized 5Y 4/2																								
-10 cm - Dark olive-gray silty- 0																								
clay with abundant sand sized		5Y 3/2	Silty-	0-1 3-4	2.82	1.52	89.4 88.4	2.59 2.23		3.14 2.72	2.52	71.6					0-3 4-7	11.0 9.3	45.1 45.3	43.9 45.4				
forams. Recent burrow at 10	0		clay with	6-7	2.82	1.49	95.5		0.82		2.69	72.9	89.4	32.8	56.6	103	0-7							
8cm			abundant	10-11	2.75		94.6	2.70		2.56							10-13	7.0	42.4	50.6				
-38 cm. - Dark olive-gray silty 20			sand sized	14-15 16-17			91.2 113.9		1.06				89.5	31.6	57.9	109	10-17							
clay with numerous sand sized			forams	20-21	2.76	1.49	93.8				2.59	72.1	74.7	32.8	41.9	127	10-23 20-27	6.1	42.3	51.6				
forams. Recent Burrow at 29 cm 30	0			26-27			94.6	10.76		4.82							31-34	7.1	42.5	50.3				
				31-32	2.73	1.55	79.2		2.23		2.16	68.4	74.3	34.7	39.6	110	31-38							
Top of core sand fraction 40				37-38			77.6																	
predominantly Planktonic	↑ End 38 cm																							
Foram tests, Fine Qtz sand,																								
Felospar + muscovitz Flakes.																								
Some Glauconite grains noted.																								
Bottom of core. Sand fraction																								
predominantly planktonic forams																								
but a few benthic types are																								
noted. Some large Qtz grains																								
are noted. Glauconite grains																								
seem to be more abundant																								
here than at the top of																								
the core while still being																								
a minor constituent.																								
Clay is very stiff in lower																								
20 cm. of core.																								

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CORE No. 13 E	Date: 3-4-76	Logged by:	CORE ANALYSIS SUMMARY SHEET
Location: East Cont. Slope/Rise	Project Name: Comsed 75		Sample Type: 5' H-P Pilot
Latitude: 38° 37.67 N	Date Sampled: 9-7-75		Water Depth: 1475 (fms (m)
Longitude: 71° 53.24W	Core Serial No.: 13E Pilot		Core Length: 118 (cm)

NOTES: X-rays show no visible structures only filled to partially filled worm burrows most of which lie in the horizontal

MGG 0 0 0 5 0 1 2

REMARKS: (color, shells, bedding, structure, etc.)	Core Sketch (depth in core)	Color	Sed. Type (visual)	Sample Interval (cm)	Specific Gravity of Solids (Gs)	Wet Unit (B) Weight (g/cm²)	Water Content (% dry weight) (wc)	Cohesion (Cn) KPa Natural (g/cm²)	Cohesion (Cr) KPa Remold (g/cm²)	Sensitivity (St)	Void Ratio (e)	Porosity (%) (n)	Liquid Limit (LL)	Plastic Limit (PL)	Plasticity Index (PI)	Liquidity Index (B)	Sample Interval cm	Size and Composition: Sand %	Silt %	Clay %	Sand + Silt	Total Carbonate (%)	Organic Carbon (%)	% Heavy Minerals
0-118cm Olive-gray silty	0																							
clay w/sand sized forams.		5Y 4/2	Silty	0-1 / 3-4	2.73	1.49	96.62 / 95.78	8.35 / 11.58		5.46 / 7.57	2.53	71.66					0-3 / 4-7	14.80 / 6.98	31.42 / 35.61	53.77 / 57.41	46.23 / 42.59			
common. Some Bioturbations	10		Clay	6-7 / 10-11	2.71 / 2.71	1.56 / 1.58	74.90 / 72.33		1.53		2.03 / 1.96	66.99 / 66.22	68.87	30.08		161.23	0-7							
noted				13-14 / 16-17	2.76	1.54	83.03 / 81.22	13.34 / 6.99		10.84 / 5.68	2.24	69.15					10-13 / 14-17	6.50 / 3.45	38.63 / 36.55	54.88 / 59.66	45.12 / 40.34			
0-60cm Recent worm	20			21-22			77.87		1.23				-1	-1	-1	-1	10-17							
burrows noted at 30cm,				25-26	2.77	1.52	85.67	5.64		9.56	2.37	70.35					25-28	2.50	34.48	63.02	36.98			
+ 60cm	30	Filled Burrows		31-32			99.24		0.59				74.79	32.58	42.21	125.61	25-32							
				37-38			112.94	5.58		9.46							43-46	1.84	13.29	84.87	15.13			
-118cm core extremely	40			43-44	2.83	1.44	110.56		0.59		3.13	75.78	-1	-1	-1	-1	43-50							
mixed by organisms,				49-50			100.36	4.47		-1							70-73	1.45	15.35	83.20	16.80			
many fecal pelets noted	50			55-56			108.96		-1				63.28	27.53	35.75	217.48	70-77							
throughout. Water				60-61			117.26	4.00		7.55							105-108	0.90	36.04	63.06	36.94			
content increases toward	60	Filled Burrows		65-66			117.15		0.53				61.82	29.10	32.72	239.70	105-112							
the bottom of the core.				70-71	2.81	1.46	105.28				2.96	74.74												
Sensitivity also appears	70			76-77			100.39																	
high.				81-82			84.43																	
Sand fraction viewed	80			86-87			108.57																	
at top, middle + bottom				91-92			87.84																	
of cores shows top + mid	90			96-97			109.80																	
sections predominately				101-102			105.65																	
planktonic forams + the	100			105-106	2.77	1.44	107.53				2.98	74.87												
bottom is characterized				111-112			99.42																	
by less sand, more benthic	110			118-119			95.41																	
forams + more lithogenic																								
sediments QTz being	120																							
a major mineral																								

End of core

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Miami, FL 33149

CORE No. 13F	Date: 3-4-76	Logged by:	CORE ANALYSIS SUMMARY SHEET
Location: East. Cont. Slope/Rise	Project Name: Comsed 75		Sample Type: 5' H-P Pilot
Latitude: 38° 14.90 N	Date Sampled: 9-7-75		Water Depth: 1574 (fms) (m)
Longitude: 71° 35.60W	Core Serial No.: 13F		Core Length: 5' H-P (cm)

NOTES: X-Rays show core separated from barrel - appears desicated. core is homogeneous to 111 cm. At this interval, sand lense is visible. Only faint density changes evident due to mottling. X-rays show core length to be 121 cm.

MGG03005012

REMARKS: (color, shells, bedding, structure, etc.)		Core Sketch (depth in core)	Color	Sed. Type (visual)	Sample Interval (cm)	Specific Gravity of Solids (Gs)	Wet Unit (B) Weight (g/cm²)	Water Content (% dry weight) (wc)	Cohesion (Cn) KPa Natural (g/cm²)	Cohesion (Cr) KPa Remold (g/cm²)	Sensitivity (St)	Void Ratio (e)	Porosity (%) (n)	Liquid Limit (LL)	Plastic Limit (PL)	Plasticity Index (PI)	Liquidity Index (B)	Sample Interval cm.	Size and Composition: Sand %	Silt %	Clay %	Sand & Silt	Total Carbonate (%)	Organic Carbon (%)	% Heavy Minerals
0-30 cm - separated from	0		10YR 4/2																						
core barrel - possibly desicated.			5Y 4/2.5	Silty	0-1 / 3-4	2.81	1.41	120.92 / 162.56	6.11 / 7.64		3.99 / 4.99	3.40	77.26					0-3 / 4-7	3.15 / 6.08	27.84 / 27.78	69.01 / 66.14	30.99 / 33.86			
oxidized. Recent worm burrows	10			Clay	6-7 / 10-11	2.74 / 2.73	1.44 / 1.44	108.66 / 108.08		1.53		2.49 / 2.45	74.86 / 74.48	94.71	40.58	54.13	148.42	0-7							
at 15, 26, 28 cm					13-14 / 16-17	2.78	1.43	112.54 / 104.37	9.99 / 10.23		6.05 / 6.20	3.18	76.07					10-13 / 14-17	4.96 / 6.19	23.10 / 29.90	66.94 / 63.82	33.06 / 36.18			
30-115 cm - Faint mottling	20				21-22			101.03		1.65								10-17							
throughout core. Core appears					25-26	2.76	1.44	108.54	12.05		4.65	3.00	74.97					25-28	7.34	30.28	62.39	37.62			
well mixed. Recent worm	30				31-32			96.21		2.59				81.05	39.09	41.96	165.51	25-32							
burrows at 45, 85, 87, 97 cm.					37-38			83.03	10.11		6.36							43-46	8.07	33.63	58.30	41.70			
Horizontal worm burrow	40		5Y 4/2		43-44	2.72	1.55	77.18		1.59		2.10	67.73	-1	-1	-1	-1	43-50							
filled with fecal materials.					49-50			106.40	11.46		6.74							70-73	8.55	28.20	63.25	36.75			
(Fecal material is common in	50				55-56			101.32		1.70				81.34	37.77	43.57	130.41	70-77							
bottom 20 cm. of core). Sand					60-61			92.32	9.05		6.16							105-108	10.02	31.70	58.28	41.72			
pockets at 106 cm. Sand	60				65-66			102.86		1.47				50.90	20.17	30.73	170.19	105-112							
lense appears at 111-114 cm.,					70-71	2.73	1.48	94.59	-1		-1	2.58	72.09					113-114	33.85	31.48	34.66	65.34			
clay balls at 113-115 cm.	70				76-77			100.16		-1				-1	-1	-1	-1								
					81-82			95.04																	
Sand fraction - viewed	80				86-87			100.69																	
at top, mid, bottom of					91-92			97.52																	
core show planktonic forams	90				96-97			98.41																	
predominant at top and mid.					101-102			92.63																	
w/ little terrigenous material,	100	clay ball, silty sand, clay ball			105-106	2.75	1.58	72.47				1.99	66.59												
and marked increase in					111-112			66.82																	
clastics (>50%) at bottom	110				113-114	2.75	1.69	55.20				1.52	60.29												
of core.																									
	120	End of core (115 cm.)																							

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CORE No. 13G Pilot	Date: 3-5-76	Logged by:	CORE ANALYSIS SUMMARY SHEET
Location: East Cont. Slope / Rise	Project Name: Comsed 75		Sample Type: 5 ft. hydro-plastic
Latitude: 37° 54.89 N	Date Sampled: 9-7-75		Water Depth: 1776 fth. (fms (m)
Longitude: 71° 15.98 W	Core Serial No.: 13G Pilot		Core Length: 8-109 ? (cm)

NOTES:
X-rays show faint burrowing throughout the core.
Bottom 15 cm of core in a bag.
core begins at 8 cm.

MGG 03 0 0 5 0 1 2

REMARKS: (color, shells, bedding, structure, etc.)	Core Sketch (depth in core)	Color	Sed. Type (visual)	Sample Interval (cm)	Specific Gravity of Solids (Gs)	Wet Unit (8) Weight (g/cm²)	Water Content (% dry weight) (wc)	Cohesion (Cn) KPa Natural (g/cm²)	Cohesion (Cr) KPa Remold (g/cm²)	Sensitivity (St)	Void Ratio (e)	Porosity (%) (n)	Liquid Limit (LL)	Plastic Limit (PL)	Plasticity Index (PI)	Liquidity Index (B)	Sample Interval cm.	Size and Composition: Sand %	Silt %	Clay %	Sand + Silt	Total Carbonate (%)	Organic Carbon (%)	% Heavy Minerals
Top 8 cm in a plastic bag To filling the weight stand 0																								
8.49 cm Olive silty-clay	To Pin wt. stand	5Y 4/3	Silty	8-9	2.75	1.47	100.24	9.70 / -1		6.10 / .1	2.76	73.38					8-11 / 12-15	3.35 / 2.96	33.31 / 34.04	63.14 / 62.95	36.86 / 37.07			
w/sand sized forams common 10			Clay	11-12			102.38		1.59				74.81	35.98	38.83	165.49	8-15							
Recent burrows at 11,			w/Forams	14-15	2.75	1.47	100.14	9.93		5.46	2.75	73.36					33-36	4.44	34.82	60.74	39.26			
17 + 27 cm. Sediments 20	Recent Burrows			20-21			103.07		1.82				-1	-1	-1	-1	33-41							
have been worked by				25-26			101.25	9.17		6.50							43-46	5.91	34.27	59.81	40.19			
burrowing organisms. 30				30-31			99.85		1.41				73.53	32.64	40.89	159.43	43-51							
49-109 cm olive-gray				33-34	2.74	1.53	83.40	6.35		7.74	2.29	69.56					70-73	5.33	26.65	68.02	31.98			
silty-clay w/sand sized 40				38-40			91.79		0.82				81.32	34.94	41.38	164.64	70-77							
forams common.				43-44	2.74	1.47	97.83	6.52		5.30	2.68	72.83					97-100	5.52	28.66	65.82	34.8			
Pteropod frags. noted 50				49-50			96.95		1.23				81.93	36.31	45.62	134.90	97-104							
through interval 70-105 cm		5Y 4/2		55-56			92.19																	
60				60-61			102.41																	
				65-66			-1																	
Sand fraction - Top, mid, 70				70-71	2.76	1.44	108.07				2.98	74.89												
bottom Largely forams /	Pteropod frags.			76-77			104.44																	
(Planktonics). <5% 80				80-87			93.18																	
Lithogenous materials.				85-86			103.99																	
90				90-91			103.00																	
				95-96			102.87																	
100				97-98	2.75	1.47	97.85				2.69	72.91												
				103-104			96.96																	
110																								
120																								
130																								

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Miami, Florida 33149

CORE No. N-6	Date: 3-23-76	Logged by:	CORE ANALYSIS SUMMARY SHEET 1 of 2
Location: Norfolk CN	Project Name: Comsed-Rusef		Sample Type: 5' H-P
Latitude: 37° 03.89' N	Date Sampled: 3-16-75		Water Depth: 330 (fms ~~m~~)
Longitude: 74° 38.79' W	Core Serial No.: N-6		Core Length: 179 (cm)

NOTES:
X-ray - X-Rays show coarse material of varying densities with numerous beds and laminations throughout the core. No burrowing noted throughout the core. Possibly due to rapid sedimentation. Beds and laminations appear to be undisturbed. Gas fractures noted from 101 cm to end of core in X-rays.

REMARKS: (color, shells, bedding, structure, etc.)	Core Sketch (depth in core)	Color	Sed. Type (visual)	Sample Interval (cm)	Specific Gravity of Solids (Gs)	Wet Unit (B) Weight (g/cm²)	Water Content (% dry weight) (wc)	Cohesion (Cn) KPa Natural (g/cm²)	Cohesion (Cr) KPa Remold (g/cm²)	Sensitivity (St)	Void Ratio (e)	Porosity (%) (n)	Liquid Limit (LL)	Plastic Limit (PL)	Plasticity Index (PI)	Liquidity Index (B)	Sample Interval cm	Size and Composition Sand %	Silt %	Clay %	Total Carbonate (%)	Organic Carbon (%)	% Heavy Minerals
Water on top of core																							
0-30 cm strong H_2S odor 0																							
from dark-olive gray		5Y 3/2	Sandy Silty	0-1 / 3-4	2.65	1.57	132.9 / 70.6	1.2			1.37	65.15					3-6	69.0	23.12	7.84			
sandy silt w/clay 10			Clay	6-7 / 9-10			127.2 / 57.0		0.5	2.6			60.7	28.6	31.7	178	3-10						
pelecypod frag at 4 cm				10-11 / 13-14	2.68	1.33	48.7 / 75.1	1.7			1.30	56.6					10-13	64.29	25.71	10.0			
worm tube noted at 25cm. 20				16-17			82.0		1.0	1.8							10-17						
No visible structures within				20-21	2.57	1.64	56.4	3.1			1.45	56.2					20-23	60.11	22.61	17.29			
the interval. 30				23-24			91.7		0.7	4.2			40.5	28.6	11.9	409	20-27						
0-70 cm shell frag at 37 cm,				30-31			83.6	6.0									35-38	54.93	25.62	19.45			
Rm Burrow filled with sand noted at 40				35-36 / 38-39	2.69	1.79	42.4 / 57.4		0.9	6.62	1.13	53.1					35-42						
4 cm interval from 58-66 cm				41-42			83.1	3.9									39-41	63.12	19.47	17.42			
s visually faintly mottled + contains coarser 50			Clayey	45-46			95.3																
material in worm burrowed areas			Silt	50-57	2.54	1.33	144.0	4.2			3.66	78.5					50-53	53.44	33.74	12.82			
color variation very slight. 60				56-57			126.9		1.4	3.0			93.7	46.1	47.6	188	50-57						
H_2S odor seems to increase				63-64			102.7																
with depth through this interval 70																							
0-101 cm dark olive-gray				70-71	2.57	1.34	142.7	6.3			3.67	78.6					70-73	35.39	42.71	16.90			
silty-clay. faintly mottled with 80				76-77			93.9		1.6	3.9							70-77						
some fine beds of coarser				82-83			104.6																
material. At ≈ 99 cm sed type 90				87-88			68.2																
becomes sandy silt with clay.				92-93			93.2																
101-179 cm core X-rays show 100				97-98			100.8											32.55	45.46	21.99			
gas fractures in this interval			Sandy Silted	104-105	2.66	1.58	69.3	4.9			1.84	64.8					104-107						
which visibly begin at ≈ 110 cm. 110			Clay						1.4	3.5			39.4	26.7	12.7	244	104-111						
color + sed type same as				110-111			46.0																
above. 120				115-116			56.4																
				120-121			91.5																
130				125-126	2.58	1.48	88.3				2.28	69.5					125-128	26.67	51.43	21.91			
				131-132			73.4																
140																							
				140-141			51.6																
150				146-147			65.7																

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CORE No. N-6	Date: 3-23-75	Logged by:	CORE ANALYSIS SUMMARY SHEET 2 of 2
Location: Norfolk Cñ	Project Name: Comsed - Ruset		Sample Type:
Latitude:	Date Sampled:		Water Depth: (fms (m)
Longitude:	Core Serial No.: N-6		Core Length: 179 (cm)

NOTES:

MGG 0 0 0 5 0 1 2

REMARKS: (color, shells, bedding, structure, etc.)	Core Sketch (depth in core)	Color	Sed. Type (visual)	Sample Interval (cm)	Specific Gravity of Solids (Gs)	Wet Unit Weight (B) (g/cm²)	Water Content (% dry weight) (wc)	Cohesion (Cn) KPa Natural (g/cm²)	Cohesion (Cr) KPa Remold (g/cm²)	Sensitivity (St)	Void Ratio (e)	Porosity (%) (n)	Liquid Limit (LL)	Plastic Limit (PL)	Plasticity Index (PI)	Liquidity Index (B)	Sample Interval	Size and Composition: Sand %	Silt %	Clay %		Total Carbonate (%)	Organic Carbon (%)	% Heavy Minerals
Sand fraction viewed 150																								
for constituents at		5Y 3/2	Sandy silt	152-153			93.6																	
top, middle & bottom 160			w/clay	158-159			71.9																	
of core. All fractions				164-165			64.2																	
appear similar with 170				170-171	2.63	1.54	76.0				2.00	66.7					170-173	62.83	26.38	10.79				
fine Qtz angular sand				176-177			65.4																	
being a dominant constituent. 180		X																						
All fractions contain	End 179cm																							
both planktonic + Benthic																								
Foraminifera of about																								
equal amounts.																								

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CORE No. N-8	Date:	Logged by:	CORE ANALYSIS SUMMARY SHEET
Location: Norfolk C ~	Project Name: Comsed - Rusef		Sample Type: 10' hydroplastic
Latitude: 37° 03.07' N	Date Sampled: 3-15-76		Water Depth: 297 (fms (m)
Longitude: 73° 38.91' W	Core Serial No.: N-8		Core Length: 93 (cm)

NOTES:
X-rays show undisturbed sediments with faint bedding and laminations of denser material. Some beds have an apparent dip of ≃ 30° while others are parallel.

MGG 0 0 0 5 0 1 2

REMARKS: (color, shells, bedding, structure, etc.)	Core Sketch (depth in core)	Color	Sed. Type (visual)
0-50 cm Olive gray to dark olive gray clayey silt w/some sand. Worm burrow noted at 6 cm. A dentalium shell noted at 21 cm + a organic scribbed circle at ≃ 47-48 cm. Material is visibly homogeneous.		5Y 3/4	clayey silt with sand
50-93 cm At 63-64 cm a black organic stringer is noted. Sed. type is same in stringer as it is surrounding it. A large hollow worm burrow is noted at ≃ 86 cm. Same color and Sed. type as above. At top, mid + bottom sand fraction contains both ang. Qtz. fine sand material with both planktonic + benthic foraminifera with an occassional ostracon and Echinoid spines.	↑ End of core 93 cm		

Sample Interval (cm)	Specific Gravity of Solids (Gs)	Wet Unit Weight (g/cm²) (B)	Water Content (% dry weight) (wc)	Cohesion (Cn) KPa Natural (g/cm²)	Cohesion (Cr) KPa Remold (g/cm²)	Sensitivity (St)	Void Ratio (e)	Porosity (%) (n)	Liquid Limit (LL)	Plastic Limit (PL)	Plasticity Index (PI)	Liquidity Index (B)	Sample Interval cm	Size and Composition: Sand %	Silt %	Clay %	Total Carbonate (%)	Organic Carbon (%)	% Heavy Minerals
0-1 / 3-4	2.64	1.45	144.9 / 84.0	4.47			2.61	72.32					3-6	21.99	53.19	24.82			
6-7 / 9-10			85.7 / 86.7		1.49	3.0			81.27	37.03			3-10						
10-11 / 13-14	2.63	1.49	87.7 / 104.8	6.80			2.30	69.75					10-13	22.96	54.38	22.66			
16-17			84.6		2.07	3.28							10-17						
20-21 / 23-24	2.64	1.49	90.1 / 85.1	3.60			2.38	70.41					20-23	21.24	60.44	18.32			
30-31 / 35-36	2.63	1.53	72.4 / 78.1		2.53	1.42	2.05	67.28	75.15	34.79			20-27						
38-39			73.8	9.92									35-38	29.64	49.86	20.49			
41-42			80.3		3.18	3.11							35-42						
45-46			65.8	20.45									50-53	23.44	52.85	23.71			
50-51	2.63	1.53	78.5		4.23	4.83	2.07	67.38	76.52	40.88			50-57						
56-57			88.6																
63-64			80.6																
70-71	2.61	1.54	78.6	20.28			2.09	67.65					70-73	23.70	50.86	25.43			
76-77			73.7		4.76	4.26							70-77						
82-83			75.7																
87-88	2.66	1.54	78.8	21.98			2.10	67.70					87-90	30.50	47.91	21.59			
92-93			70.8		3.82	5.75			80.91	40.48			87-93						

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CORE No. N-9	Date: 3-25-76	Logged by:
Location: Norfolk Cñ	Project Name: Comsed	
Latitude: 37° 02.00' N	Date Sampled: 3-15-75	
Longitude: 74° 37.16' W	Core Serial No.: N-9	

CORE ANALYSIS SUMMARY SHEET

Sample Type: 10' hydroplastic

Water Depth: 430 (fms)

Core Length: 204 (cm)

NOTES: X-rays show density changes which occur in the upper 75 cm. of core. There after the density changes (beds + laminations) are less obvious.

Top + bottom of section B-C appears desicated with a residual salt crust covering core.

MGG 0 0 0 5 0 1

REMARKS: (color, shells, bedding, structure, etc.)

Core has an H_2S odor throughout

0-100 cm core is a dark olive-gray with some sand sized material. No visible structures noted in the core. Although X-rays show bedding + laminations. Sand fraction predominantly fine Qtz angular sand with minor quantities of planktonic + benthic forams and an occassional ostracod. Some glauconite also noted 100-204 cm. Dark olive gray to green clayey silt with some sands. At ≈ 115 cm gas fractures noted in the X-ray which continue to the end of the core. End of the core at 204 cm. Section B-C appears desicated.

Core Sketch (depth in core): 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150

Color	Sed. Type (visual)
5Y 3/2	clayey silt with sand

Sample Interval (cm)	Specific Gravity of Solids (Gs)	Wet Unit Weight (g/cm²) (B)	Water Content (% dry weight) (wc)	Cohesion (Cn) KPa Natural (g/cm²)	Cohesion (Cr) KPa Remold (g/cm²)	Sensitivity (St)	Void Ratio (e)	Porosity (%) (n)	Liquid Limit (LL)	Plastic Limit (PL)	Plasticity Index (PI)	Liquidity Index (B)
0-1 / 3-4	2.55	1.77	151.73	4.83			1.02	50.53				
6-7 / 9-10			40.00 / 73.95		1.94	2.49			39.92	29.0		
10-11 / 13-14	2.68	1.65	60.10 / 69.01	5.48			1.58	61.26				
16-17 / 20-21	2.58	1.54	77.58 / 69.66		1.55	3.54	1.92	65.75				
26-27			74.40	4.89								
30-31			77.71		1.16	4.22			67.41	36.30		
35-36	2.63	1.54	58.53	6.42			1.99	66.6				
41-42	2.64	1.42	75.81		1.00	6.42	2.88	74.2				
45-46			109.0									
50-51	2.66	1.60	76.21	6.74			1.77	63.92				
56-57			66.59		1.75	3.85			57.67	31.21		
63-64			81.65									
69-70			49.66									
74-75	2.66	1.57	80.0	13.64			1.91	65.62				
80-81			71.74		2.17	6.28						
86-87			71.55									
92-93			59.83									
100-101	2.65	1.56	70.65	12.28			1.92	65.70				
106-107			72.26		2.94	4.18			72.08	34.56		
114-115			66.69									
122-123			61.66									
130-131			55.75									
138-139			58.37									
146-147	2.63	1.57	70.75				1.88	65.22				

Sample Interval cm	Size and Composition: Sand %	Silt %	Clay %		Total Carbonate (%)	Organic Carbon (%)	% Heavy Minerals
3-6	57.70	31.73	10.58				
3-10							
10-13	61.38	27.14	11.48				
10-17							
20-23	42.49	39.89	17.62				
20-27							
35-38	46.39	39.93	13.68				
35-42							
50-53	40.99	39.13	19.88				
50-57							
74-77	38.31	43.04	18.65				
74-81							
100-103	39.44	41.15	19.41				
100-107							
146-149	41.18	41.67	17.16				

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Miami, Florida 33149

CORE No. N-9	Date:	Logged by:	CORE ANALYSIS SUMMARY SHEET	NOTES:
Location: Norfolk Cñ	Project Name: Comsed		Sample Type:	
Latitude:	Date Sampled:		Water Depth: (fms (m)	
Longitude:	Core Serial No.: N-9		Core Length: 204 (cm)	MGG 0 0 0 5 0 1

REMARKS: (color, shells, bedding, structure, etc.)	Core Sketch (depth in core)	Color	Sed. Type (visual)	Sample Interval (cm)	Specific Gravity of Solids (Gs)	Wet Unit Weight (B) (g/cm²)	Water Content (% dry weight) (wc)	Cohesion (Cn) KPa Natural (g/cm²)	Cohesion (Cr) KPa Remold (g/cm²)	Sensitivity (St)	Void Ratio (e)	Porosity (%) (n)	Liquid Limit (LL)	Plastic Limit (PL)	Plasticity Index (PI)	Liquidity Index (B)	Sample Interval cm.	Size and Composition: Sand %	Silt %	Clay %		Total Carbonate (%)	Organic Carbon (%)	% Heavy Minerals
150																								
		5Y 3.5/2	clayey-silt with sand	154-155			71.30																	
160																								
				163-164			59.82																	
170				171-172			73.45																	
				179-180			63.07																	
180																								
				187-188			60.21																	
190																								
				195-196	2.57	1.53	85.30				1.97	66.30					195-198	35.14	45.10	19.76				
200																								
				203-204			76.56																	
210	↑ End 204 cm																							

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CORE No. N-11	Date: 3-25-76	Logged by: BS	CORE ANALYSIS SUMMARY SHEET 1 of 2
Location: Norfolk CN	Project Name: Comsed-75		Sample Type: 10' Hydroplastic
Latitude: 37° 02.39' N	Date Sampled: 3-15-75		Water Depth: 750 (fms ~~m~~)
Longitude: 74° 30.32' W	Core Serial No.: N-11		Core Length: 196 (cm)

NOTES: X-ray show little change throughout core and appear homogeneous with respect to pensiTes. Some bedding noted in very bottom of core (194-196 cm; 202-204.5 in X-ray)

MGG 0 0 0 5 0 1 2

REMARKS: (color, shells, bedding, structure, etc.)	Core Sketch (depth in core)	Color	Sed. Type (visual)
Water on top of core			
0-100 cm			
Olive-gray silty-clay		5Y 3/2	Silty clay
material appears to			
be homogeneous. H_2S odor			
noted for entire			
core. Top 50 cm fairly			
soupy with little strength			
noted in the vane shear			
tests. Shell fragments			
noted at 51.3 67 cm.			
Faint mottling noted from 25-100 cm			
100-196 cm No visible change			
from previous section			
mottling continues possibly			
due to burrowing organisms.			
Shell fragments noted at			
138 + 146 cm. Core apparently			
cracked after X-rays were taken			
as 180-196 cm interval			
has a vertical fracture.			
Sand fraction washed from			
mud was found to be			
almost non-existent and			
where some existed was			
predominantly Atz.			

Sample Interval (cm)	Specific Gravity of Solids (Gs)	Wet Unit Weight (g/cm²)	Water Content (% dry weight) (wc)	Cohesion (Cn) KPa Natural (g/cm²)	Cohesion (Cr) KPa Remold (g/cm²)	Sensitivity (St)	Void Ratio (e)	Porosity (%) (n)	Liquid Limit (LL)	Plastic Limit (PL)	Plasticity Index (PI)	Liquidity Index (B)
0-1 / 3-4	2.57	1.28	210.3 / 181.70	1.04			4.41	82.33				
6-7 / 9-10			196.16 / 201.72		.03	34.67			126.22	51.22		
10-11 / 13-14	2.57	1.24	210.41 / 220.39	.97			5.42	84.42				
16-17 / 20-21	2.55 / 2.58	1.24 / 1.25	212.35 / 205.75		.10	9.7	5.42 / 5.31	84.41 / 84.15				
24-27			199.17	.58								
30-31			168.40		.36	1.6			136.93	50.99		
35-36	2.55	1.29	215.05	2.14			4.29	81.11				
40-41			178.13		.13	16.46						
45-46			167.60									
50-51	2.55	1.30	160.54	2.98			4.09	80.37				
56-57			140.63		1.23	2.42			124.65	51.60		
63-64	2.57	1.30	167.58				4.31	81.16				
70-71	2.59	1.31	162.05	3.01			4.20	80.76				
76-77			140.13		.74	4.05						
81-82			148.17									
86-87			174.59									
92-93			199.82									
100-101	2.56	1.32	151.22	3.43			3.87	79.47				
106-107			145.04		1.55	2.21			121.75	50.58		
114-115			150.34									
122-123			145.35									
130-131			154.23									
138-139			149.0									
146-147	2.62	1.34	144.72	5.47			3.79	79.13				
					1.65	3.32			120.79	49.80		

Sample Interval (cm)	Size and Composition: Sand %	Silt %	Clay %	Total Carbonate (%)	Organic Carbon (%)	% Heavy Minerals
3-6	3.56	67.09	29.35			
3-10						
10-13	1.96	68.63	29.41			
10-17						
20-23	1.53	69.05	29.41			
20-27						
35-38	1.33	67.63	31.04			
35-42						
	2.88	66.35	30.77			
	1.12	67.16	31.72			
	1.72	63.93	34.35			
146-149	4.0	64.0	32.0			
146-153						

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CORE No. N-11 | Date: 3-25-76 | Logged by:

CORE ANALYSIS SUMMARY SHEET

NOTES:

Location: Norfolk Cn | Project Name: Comsed - 75 | Sample Type:

Latitude: | Date Sampled: | Water Depth: (fms (m)

Longitude: | Core Serial No.: N-11 | Core Length: 196 (cm)

MCG 0 2 0 0 5 0 1 2

REMARKS: (color, shells, bedding, structure, etc.)	Core Sketch (depth in core)	Color	Sed. Type (visual)	Sample Interval (cm)	Specific Gravity of Solids (Gs)	Wet Unit (B) Weight (g/cm²)	Water Content (% dry weight) (wc)	Cohesion (Cn) KPa Natural (g/cm²)	Cohesion (Cr) KPa Remold (g/cm²)	Sensitivity (St)	Void Ratio (e)	Porosity (%) (n)	Liquid Limit (LL)	Plastic Limit (PL)	Plasticity Index (PI)	Liquidity Index (B)	Sample Interval cm.	Size and Composition Sand %	Silt %	Clay %		Total Carbonate (%)	Organic Carbon (%)	% Heavy Minerals
150																								
		5Y 3/2	Silty-	152-153			139.21																	
160			clay	160-161			143.22																	
				168-169			147.34																	
170																								
				176-177			139.63																	
180																								
				184-185			139.73																	
190				190-191			138.18																	
				194-195	2.58	1.36	130.95				3.38	77.16					194-196	2.29	64.12	33.59				
200	↑ End 196cm																							

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CORE No. N-13	Date: 3-25-76	Logged by: BJ
Location: Norfolk Cñ	Project Name: Comsed 75	
Latitude: 37° 02.94' N	Date Sampled: 3-15-75	
Longitude: 74° 26.68' W	Core Serial No.: N-13	

CORE ANALYSIS SUMMARY SHEET

Sample Type: 10' Hydroplastic

Water Depth: 658 (fms)

Core Length: 82 (cm)

NOTES:
X-rays show vertical crack from 0-8cm with the only apparent structures being broturbations both hollow + filled worm burrows. No layering noted

MGG 0 0 0 5 0 1 2

REMARKS: (color, shells, bedding, structure, etc.)	Core Sketch (depth in core)	Color	Sed. Type (visual)
Top 1.5cm slightly oxidized			
-50cm 0			
Olive gray silty-clay with		5Y3/2	Silty clay
forams making up the small 10			
sand fraction. Worm Tube			
Horizontal At 23 cm ≈ 7cm long 20			
Pelecypod shell at ≈ 48-49cm			
30			
0-82cm 5Y3/2 (olive gray) silty			
clay with some forams. 40			
Filled worm burrows at 61 + 73 cm			
Sand fraction in bottom 50			
of core appears to contain			
a greater amount of 60			
QTZ + other minerals when compared			
with the upper interval 70			
Planktonic + Benthic forams			
noted at both top + bottom 80			
of core.			
90	↑ End 82 cm		

Sample Interval (cm)	Specific Gravity of Solids (Gs)	Wet Unit Weight (g/cm²) (8)	Water Content (% dry weight) (wc)	Cohesion (Cn) KPa Natural (g/cm²)	Cohesion (Cr) KPa Remold (g/cm²)	Sensitivity (St)	Void Ratio (e)	Porosity (%) (n)	Liquid Limit (LL)	Plastic Limit (PL)	Plasticity Index (PI)	Liquidity Index (B)
0-1 / 3-4	2.65	1.465	95.86 / 96.10	8.36			2.55	71.30				
6-7 / 9-10			100.84 / 109.21		2.20	3.77			94.43	41.19		
10-11 / 13-14	2.66	1.45	100.44 / 101.46	7.13			2.67	72.76				
16-17 / 20-21	2.66	1.46	100.70 / 96.57		2.56	2.78	2.57	71.98				
26-27			92.74	6.77								
30-31			87.17		2.40	2.82			93.35	37.02		
35-36	2.65	1.42	110.41	4.76			2.93	74.53				
41-42			88.81		1.36	3.50						
45-46			87.71									
50-51	2.70	1.52	82.87	9.79			2.24	69.11				
56-57			80.21		1.78	5.5			83.62	35.96		
63-64			80.25									
70-71	2.73	1.48	96.36	19.28			2.63					
76-77			94.58		1.85	10.42						
80-81			80.46									

Sample Interval cm	Size and Composition: Sand %	Silt %	Clay %		Total Carbonate (%)	Organic Carbon (%)	% Heavy Minerals
3-6	5.23	60.11	34.65				
3-10							
10-13	4.73	57.28	37.98				
10-17							
20-23	4.07	57.41	38.52				
20-27							
35-38	3.91	53.63	42.46				
35-42							
50-59	3.87	53.17	42.96				
50-57							
70-73	4.42	50.18	45.40				
70-77							

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CORE No. N-14 | Date: 3-24-76 | Logged by: BS

CORE ANALYSIS SUMMARY SHEET

Location: Norfolk Canyon | Project Name: Comsed 75 | Sample Type: 10' hydroplastic

Latitude: 37° 01.13' N | Date Sampled: 3-15-75 | Water Depth: 857 (fms (■))

Longitude: 74° 23.84' W | Core Serial No.: N-14 | Core Length: 50 (cm)

NOTES:
X-rays show undisturbed yet bioturbated sediments.

MGG 0 0 0 5 0 1 0

REMARKS: (color, shells, bedding, structure, etc.)	Core Sketch (depth in core)	Color	Sed. Type (visual)	Sample Interval (cm)	Specific Gravity of Solids (Gs)	Wet Unit Weight (g/cm²) (δ)	Water Content (% dry weight) (wc)	Cohesion (Cn) KPa Natural (g/cm²)	Cohesion (Cr) KPa Remold (g/cm²)	Sensitivity (St)	Void Ratio (e)	Porosity (%) (n)	Liquid Limit (LL)	Plastic Limit (PL)	Plasticity Index (PI)	Liquidity Index (B)	Sample Interval cm	Size and Composition Sand %	Silt %	Clay %	Total Carbonate (%)	Organic Carbon (%)	% Heavy Minerals
olive silty clay top																							
0																							
slightly oxidized		5Y 3/2	Silty	0-1 / 3-4	2.68	1.39	125.65 / 129.56	3.21			3.31	76.34					3-6	4.83	57.53	37.64			
no visible structures			clay	6-7 / 9-10			125.04 / 127.12		.87	3.69			96.48	45.14			3-10						
10 noted.				10-11 / 13-14	2.68	1.409	116.14 / 118.03	3.31			3.11	75.68					10-13	5.33	55.47	39.20			
20				16-17 / 20-21			114.21 / 118.36		1.68	1.97							10-17						
				26-27			104.64	2.46		1.62							20-23	6.39	50.07	43.54			
30				30-31			102.94		1.52				87.30	39.79			20-27						
				35-36			104.58	5.83									35-38	15.38	41.54	43.08			
40				41-42			106.62		1.39	4.19							35-42						
				45-46			104.60																
50				50-51																			
	end of core																						

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CORE No. N-15	Date: 3-26-76	Logged by: BS	CORE ANALYSIS SUMMARY SHEET	NOTES:
Location: Norfolk Cñ	Project Name: Comsed - 75		Sample Type: 10' H-P	X-rays appear homogeneous + undisturbed.
Latitude: 36° 58.59' N	Date Sampled: 3-15-75		Water Depth: 1020 (fms (■))	
Longitude: 74° 20.27' W	Core Serial No.: N-15		Core Length: 232 (cm)	MGG 03005019

REMARKS: (color, shells, bedding, structure, etc.)	Core Sketch (depth in core)	Color	Sed. Type (visual)	Sample Interval (cm)	Specific Gravity of Solids (Gs)	Wet Unit (B) Weight (g/cm²)	Water Content (% dry weight) (wc)	Cohesion (Cn) KPa Natural (g/cm²)	Cohesion (Cr) KPa Remold (g/cm²)	Sensitivity (St)	Void Ratio (e)	Porosity (%) (n)	Liquid Limit (LL)	Plastic Limit (PL)	Plasticity Index (PI)	Liquidity Index (B)	Sample Interval cm.	Size and Composition: Sand %	Silt %	Clay %	Total Carbonate (%)	Organic Carbon (%)	% Heavy Minerals
0-40cm very dark grayish																							
brown silty clay, very		2.5Y 3/2	Silty	0-1 / 3-4	2.76	1.64	68.41 / 63.62	5.41			1.76	63.72					3-6	5.98	35.47	58.55			
cohesive yet weak material			Clay	6-7 / 9-10			56.74 / 59.53		1.36	3.98			49.26	25.47			3-10						
some faint horizontal mottling				10-11 / 13-14	2.75	1.63	65.04 / 63.41	3.60			1.79	64.14					10-13	8.74	40.87	50.39			
possibly filled burrows are noted				16-17 / 20-21	2.77	1.85	62.49 / 39.43		1.36	2.65	1.09	52.2					10-17						
hollow borrow seen at 34 cm, +				24-27			117.39	7.13									20-23	5.86	40.02	54.12			
36cm. Color gradually changes				30-31			83.67		1.23	5.80			50.60	24.69			20-27						
to a dark olive gray (5Y 3/2)		GRADUAL CHANGE		35-36	2.76	1.59	71.29	3.34			1.97	66.30					35-38	0.91	34.89	64.27			
10-232 cm Dark olive gray silty				41-42			68.03		1.04	3.21							35-42						
clay as above but a gradual				45-46			69.17																
increase in organic streaking				50-51	2.73	1.66	59.85	9.72			1.63	62.03					50-53	6.44	35.94	57.62			
begins and continues to end		5Y 3/2		56-57			85.27		1.36	7.15			54.10	23.79			50-57						
of core. No visible structures				63-64			79.81																
or burrows.																							
				70-71	2.78	1.67	60.16	9.14			1.67	62.58					70-73	2.97	38.71	58.32			
Sand fraction viewed at				76-77			73.88		1.07	8.54							70-77						
Top + 105 cm was found				81-82			71.32																
to contain forams + fine				86-87			73.07																
QTZ sand with the latter				92-93			66.62																
interval having pyrite																							
spherules in an agglutinated				100-101	2.76	1.60	70.58	5.57			1.95	66.08					100-103	0.79	33.40	65.82			
manner: with fecal pellets				106-107			69.76		.84	6.63			48.06	25.71			100-107						
+ a black organic deposit																							
				114-115			72.49																
Organic streaking was																							
easily oxidized by the				122-123			73.48																
addition of a 10% solution				130-131			73.17																
of H_2O_2				138-139			71.90																
				146-147	2.74	1.61	67.59	6.51			1.85	64.94					146-149	2.04	35.46	62.50			
									.32	20.34			53.06	22.87			146-153						

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CORE No. N-15	Date: 3-26-76	Logged by: BS	CORE ANALYSIS SUMMARY SHEET
Location: Norfolk Cñ	Project Name: Comsed 75		Sample Type: 10' H-P
Latitude:	Date Sampled:		Water Depth: (fms (m)
Longitude:	Core Serial No.: N-15		Core Length: 232 (cm)

NOTES:

MGG 0 0 0 5 0 1 2

REMARKS: (color, shells, bedding, structure, etc.)	Core Sketch (depth in core)	Color	Sed. Type (visual)	Sample Interval (cm)	Specific Gravity of Solids (Gs)	Wet Unit (B) Weight (g/cm²)	Water Content (% dry weight) (wc)	Cohesion (Cn) KPa Natural (g/cm²)	Cohesion (Cr) KPa Remold (g/cm²)	Sensitivity (St)	Void Ratio (e)	Porosity (%) (n)	Liquid Limit (LL)	Plastic Limit (PL)	Plasticity Index (PI)	Liquidity Index (B)	Sample Interval cm	Size and Composition: Sand %	Silt %	Clay %		Total Carbonate (%)	Organic Carbon (%)	% Heavy Minerals
150																								
		5Y 3/2	Silty	152-153			71.38																	
160			Clay	160-161			66.77																	
				168-169			58.58																	
170																								
				176-177			65.19																	
180																								
				184-185			61.82																	
190				190-191			68.19																	
				196-197	2.75	1.61	68.13	4.70			1.85	65.20					196-199	1.03	37.28	61.70				
200				202-203			57.42		1.26	3.73			47.01	24.22			196-203							
210				210-211			65.32																	
				218-219			59.72																	
220																								
				226-230			62.74																	
230				230-231	2.78	1.64	64.92				1.81	64.35					230-232	1.21	38.03	60.76				
	End 232 cm																							
240																								

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CORE No. N-17	Date: 3-29-76	Logged by:	CORE ANALYSIS SUMMARY SHEET
Location: Norfolk Cñ	Project Name: Comsed-75		Sample Type: 10' hydroplastic
Latitude: 37° 01.19' N	Date Sampled: 3-14-75		Water Depth: 983 (fms [redacted])
Longitude: 74° 15.16' W	Core Serial No.: N-17		Core Length: 30 (cm)

NOTES:
X-rays show catcher broken + spired about the core disturbing the sediment.

MGG 00005012

REMARKS: (color, shells, bedding, structure, etc.)	Core Sketch (depth in core)	Color	Sed. Type (visual)	Sample Interval (cm)	Specific Gravity of Solids (Gs)	Wet Unit Weight (B) (g/cm²)	Water Content (% dry weight) (wc)	Cohesion (Cn) KPa Natural (g/cm²)	Cohesion (Cr) KPa Remold (g/cm²)	Sensitivity (St)	Void Ratio (e)	Porosity (%) (n)	Liquid Limit (LL)	Plastic Limit (PL)	Plasticity Index (PI)	Liquidity Index (B)	Sample Interval cm	Size and Composition: Sand %	Silt %	Clay %		Total Carbonate (%)	Organic Carbon (%)	% Heavy Minerals
Olive gray silty clay. 0		5Y 3/2	Silty clay														0-2	5.66	50.60	43.74				
core disturbed by catcher being in 10																								
upside down 20																								
core faintly mottled 30																								
	End 30cm																							

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CORE No. N-19	Date: 3-29-76	Logged by:	CORE ANALYSIS SUMMARY SHEET 1 of 2
Location: Norfolk Cñ	Project Name: Comsed-75		Sample Type: 10' H-P
Latitude: 36° 57.64' N	Date Sampled: 3-14-75		Water Depth: 1160 (fms (●))
Longitude: 74° 11.10' W	Core Serial No.: N-19		Core Length: 258 (cm)

NOTES:
X-rays show bioturbations sediments with numerous worm tubes both hollow + filled.

MGG 00005012

REMARKS: (color, shells, bedding, structure, etc.)	Core Sketch (depth in core)	Color	Sed. Type (visual)	Sample Interval (cm)	Specific Gravity of Solids (Gs)	Wet Unit Weight (g/cm²) (8)	Water Content (% dry weight) (wc)	Cohesion (Cn) KPa Natural (g/cm²)	Cohesion (Cr) KPa Remold (g/cm²)	Sensitivity (St)	Void Ratio (e)	Porosity (%) (n)	Liquid Limit (LL)	Plastic Limit (PL)	Plasticity Index (PI)	Liquidity Index (B)	Sample Interval cm.	Size and Composition: Sand %	Silt %	Clay %		Total Carbonate (%)	Organic Carbon (%)	% Heavy Minerals
0																								
0 - 7.58cm		5Y 4/2	Silty	0-1 / 3-4	2.66	1.45	103.71 / 101.40	4.15			2.70	72.95					3-6	8.58	46.0	45.4	54.6			
Core characterized by		5Y 3/2	clay	6-7 / 9-10			83.51 / 86.81		1.75	2.37			69.98	34.98			3-10							
an olive gray silty clay with				10-11 / 13-14	2.71	1.5333	81.42 / 74.39	8.23			2.21	68.81					10-13	6.66	43.02	50.32	49.7			
10 numerous burrows both				16-17 / 20-21	2.67	1.54	75.49 / 77.61		2.04	4.03	2.07	67.42					10-17							
recent + filled + sediment				26-27			84.56	14.71									20-23	6.30	40.16	53.54				
appears to contain abundant				30-31			73.61		2.53	5.81			68.07	27.85			20-27							
30 fecal pellets throughout.				35-36	2.74	1.60	69.98	14.58			1.92	65.72					35-38	6.06	41.92	52.02				
Material appears				41-42			73.17		2.12	6.88							35-42							
40 relatively stiff in upper				45-46			68.63																	
60 cm Below which a very				50-51	2.74	1.54	80.64	4.76			2.21	68.84					50-53	3.66	43.29	53.05				
50 weak sticky silty-clay is				56-57			77.22		.94	5.06			58.70	26.66			50-57							
noted possibly due to																								
60 burrowing activity.				63-64			79.10																	
Organic streaking in				70-71	2.72	1.55	77.58	7.93			2.11	67.85					70-73	2.01	40.94	57.05				
70 evident throughout lower				76-77			81.94		1.35	4.11							70-77							
200 cm of core.				81-82			91.61																	
80				86-87			95.02																	
Carbon was digested in				92-93			89.50																	
90 Some areas of core																								
which readily discolored				100-101	2.73	1.48	96.05	6.40			2.62	72.40					100-103	1.10	30.91	67.99				
100 the sediment				106-107			97.12		.82	7.80			74.18	33.13			100-107							
There also seems to																								
110 be more $CaCO_3$ in upper				114-115			91.36																	
part of core.				122-123			92.44																	
120																								
130				130-131			65.70																	
				138-139			91.23																	
140																								
				146-147	2.77	1.50	93.09	6.46			2.58	72.06					146-149	1.18	35.88	62.94				
150				152-153			81.92		.64	10.10			66.23	27.64			146-153							

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CORE No. N-19 | Date: 3-29-76 | Logged by: BS | CORE ANALYSIS SUMMARY SHEET 2 of 2 | NOTES:

Location: Norfolk Cñ | Project Name: Comsed-75 | Sample Type: 10' HP

Latitude: | Date Sampled: | Water Depth: (fms (m)

Longitude: | Core Serial No.: N-19 | Core Length: 258 (cm)

MCG00005012

REMARKS: (color, shells, bedding, structure, etc.)	Core Sketch (depth in core)	Color	Sed. Type (visual)	Sample Interval (cm)	Specific Gravity of Solids (Gs)	Wet Unit (B) Weight (g/cm²)	Water Content (% dry weight) (wc)	Cohesion (Cn) KPa Natural (g/cm²)	Cohesion (Cr) KPa Remold (g/cm²)	Sensitivity (St)	Void Ratio (e)	Porosity (%) (n)	Liquid Limit (LL)	Plastic Limit (PL)	Plasticity Index (PI)	Liquidity Index (B)		Size and Composition: Sand %	Silt %	Clay %		Total Carbonate (%)	Organic Carbon (%)	% Heavy Minerals
150																								
		2.5Y 3/2	Silty-																					
160			clay	160-161			67.78																	
				168-169			97.02																	
170																								
				176-177			81.48																	
180																								
				184-185			66.67																	
190				190-191			70.21																	
				196-197	2.75	1.57	75.98	3.64			2.09	67.63					196-199	0.51	37.39	62.10				
200				202-203			76.54		.35	10.4			51.99	23.68			196-203							
210				210-211			75.74																	
				218-219			84.17																	
220																								
				226-227			74.02																	
230																								
				234-235			83.34																	
240				242-243			80.54																	
				246-247	2.75	1.56	77.98	5.88			2.14	68.20					246-249	0.52	40.05	59.43				
250				252-253			77.56		.59	11.76			52.00	24.70			246-253							
				255-256			69.18																	
260	↑ End 258 cm.																							

Marine Geology & Geophysics Lab, AOML
15 Rickenbacker Causeway
Miami, FL 33149

CORE No. N-21	Date: 3-27-76	Logged by: BS	CORE ANALYSIS SUMMARY SHEET
Location: Norfolk Cñ	Project Name: Comsed - 75		Sample Type: 10' H-P
Latitude: 36° 58.79' N	Date Sampled: 3-14-75		Water Depth: 1370 (fms ■)
Longitude: 73° 58.54' W	Core Serial No.: N-21		Core Length: 166 (cm)

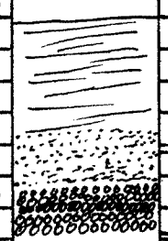
NOTES: No Disturbance of core noted
X-ray show brotur bations sediments
from 0-102 cm + 134-166 cm
Turbidity sequence shows up nicely
as density changes at 102-134 cm
upper part of sequence is laminated.

REMARKS: (color, shells, bedding, structure, etc.)

0-102 cm Olive gray silty clay. Top 2 cm soupy worm burrows (Recent) noted at 28, 43, 60, 65, 69, 75, + 84 cm.

102 - 166 cm a graded turbidity sequence begins at 102 cm and ends at 134 cm. material is intermittently graded with sandlenses from 102-120 cm where internal from 120 - 134 cm is A one sequence graded bed, lower DART (133-134cm) contains gravel material as large as 1.4 cm (long axis) at lower contact of bed material lies upon an olive gray silty-clay and continues to end of core at 166 cm.

Core Sketch (depth in core)



Sample Interval (cm)	Color	Sed. Type (visual)	Specific Gravity of Solids (Gs)	Wet Unit (B) Weight (g/cm²)	Water Content (% dry weight) (wc)	Cohesion (Cn) KPa Natural (g/cm²)	Cohesion (Cr) KPa Remold (g/cm²)	Sensitivity (St)	Void Ratio (e)	Porosity (%) (n)	Liquid Limit (LL)	Plastic Limit (PL)	Plasticity Index (PI)	Liquidity Index (B)	Sample Interval cm	Size and Composition: Sand %	Silt %	Clay %	Sand + Silt %	Total Carbonate (%)	Organic Carbon (%)	% Heavy Minerals
0-1 / 3-4	5Y 4/2.5	Silty clay	2.69	1.37	133.73 / 130.49	1.68			3.53	77.89					3-6	7.70	46.55	45.75	54.25			
6-7 / 9-10	5Y 4/2				104.73 / 104.65		1.39	1.21			83.88	40.49			3-10							
10-11 / 13-14			2.66	1.45	104.62 / 94.53	8.52			2.70	73.0					10-13	10.52	46.31	43.17	56.83			
16-17 / 20-21			2.72	1.49	90.22 / 92.01		1.98	4.30	2.50	71.45					10-17							
26-27					95.78	7.91									20-23	11.60	42.43	45.97	54.03			
30-31					77.96		1.81	4.37			69.85	35.94			20-27							
35-36			2.69	1.54	79.62	8.10			2.14	68.17					35-38	4.75	48.09	42.16	57.84			
41-42					95.78		1.91	4.24							35-42							
45-46					92.96																	
50-51			2.74	1.47	98.23	8.94			2.69	72.91					50-53	6.34	44.77	48.90	51.08			
56-57					97.28		1.00	8.94			77.25	35.02			50-57							
63-64					91.54																	
70-71			2.69	1.53	80.89				2.18	68.51					70-73	16.19	39.74	44.08	55.93			
76-77					81.67		1.20								70-77							
81-82					71.93																	
86-87					73.32																	
92-93					84.68																	
100-101			2.69	1.62	64.66	15.81			1.74	63.50	44.13				100-103	33.22	33.11	33.66	66.33			
106-107		silty clay w/ sand lenses			51.18		3.95	4.00				27.37			100-107							
114-115					71.06																	
122-123	5Y 3/2	silty sand	2.66	2.00	94.72				.66	39.66					122-123	92.54	3.60	3.86	96.14			
127-128		sandy gravel	2.66	2.05	21.69				.58	36.59					127-128	89.71	5.58	4.72	95.29			
133-134			2.66	2.17	15.74				.42	29.52					133-134	59.79	20.96	19.24	80.75			
135-137	5Y 4/2		2.66	1.53	80.89				2.15	68.27					135-137	9.56	47.82	42.62	57.38			
146-147			2.71	1.52	85.66	7.78			2.32	69.89					146-149	5.80	40.2	54.0	46.0			
152-153					82.66		2.00	3.89			66.47	33.07			146-153							

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CORE No. N-21	Date: 3-27-76	Logged by: BS	CORE ANALYSIS SUMMARY SHEET
Location: Norfolk Cñ	Project Name: Comsed - 75		Sample Type: 10' H-P
Latitude:	Date Sampled:		Water Depth: (fms (m)
Longitude:	Core Serial No.: N-21		Core Length: 166 (cm)

NOTES:

MGG 0 0 0 5 0 1 2

REMARKS: (color, shells, bedding, structure, etc.)	Core Sketch (depth in core)	Color	Sed. Type (visual)	Sample Interval (cm)	Specific Gravity of Solids (Gs)	Wet Unit Weight (g/cm²) (δ)	Water Content (% dry weight) (wc)	Cohesion (Cn) KPa Natural (g/cm²)	Cohesion (Cr) KPa Remold (g/cm²)	Sensitivity (St)	Void Ratio (e)	Porosity (%) (n)	Liquid Limit (LL)	Plastic Limit (PL)	Plasticity Index (PI)	Liquidity Index (B)		Size and Composition: Sand %	Silt %	Clay %	< 62.5μ	Total Carbonate (%)	Organic Carbon (%)	% Heavy Minerals
150																								
160				160-161																				
170	End ↑ 166 cm																							