

Beach

Line 14

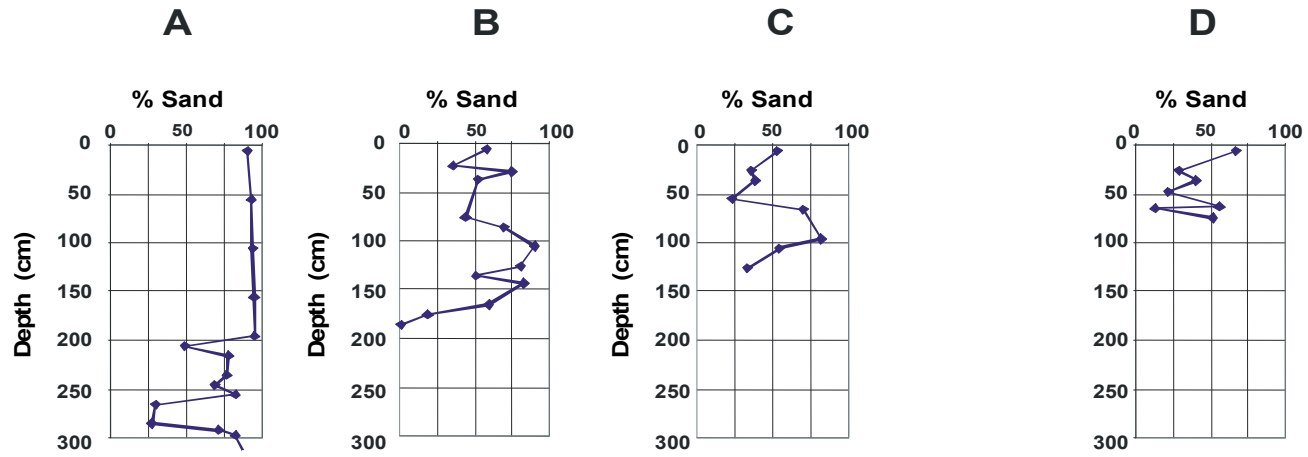


Figure 80: Fence Profile of Line 14

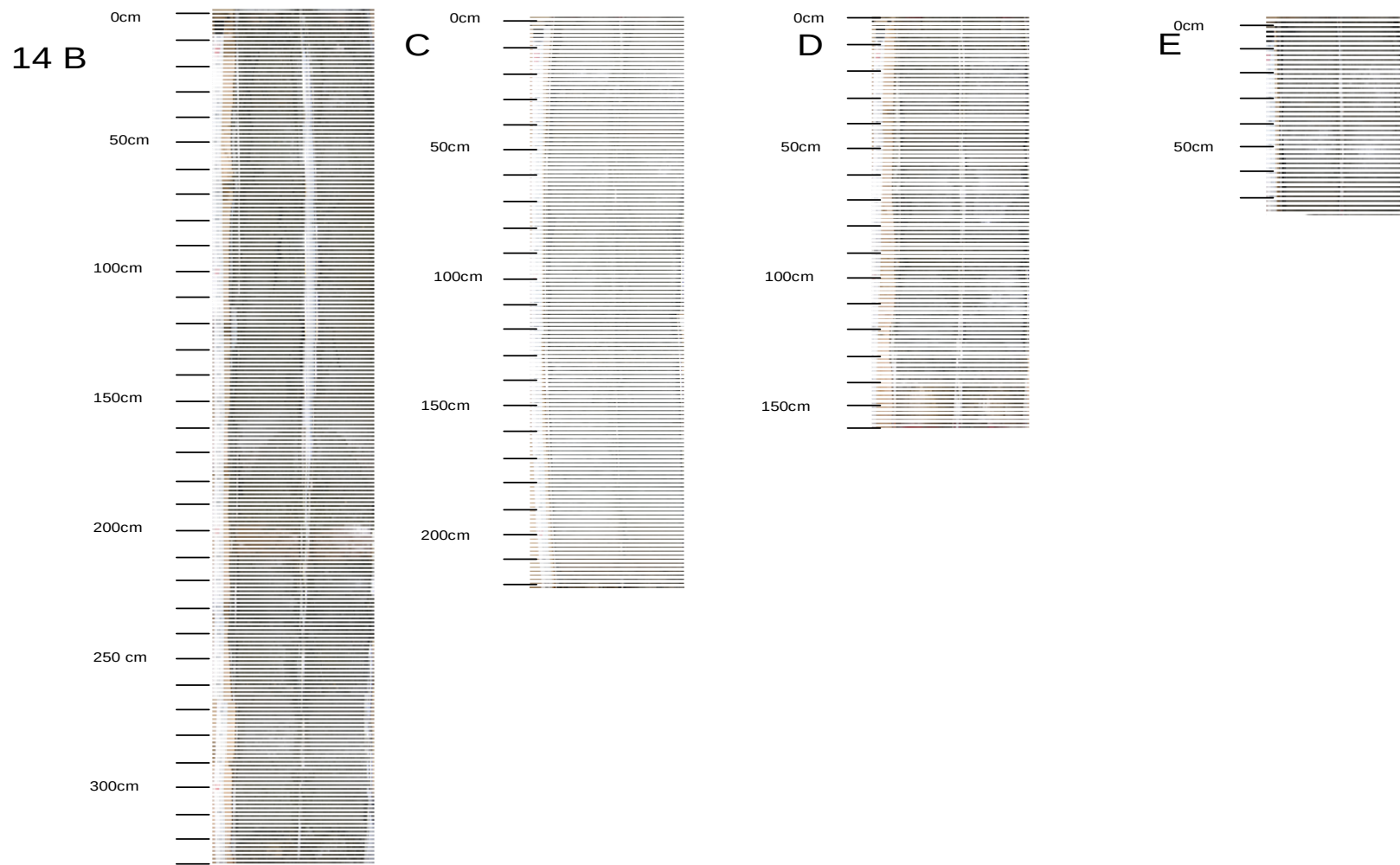


Figure 81: Core Photographs of line 14

CORE 14E:

Core 14E was and taken at a water depth of 9.8m (32ft) (Table 1) and had a total length of 75cm (29.5in) (Figures 103-104). A total of 7 grain size samples were taken at depths of 1-10cm (0.4-3.9in), 21-30cm (8.3-11.8in) , 31-40cm (12.2 15.7in), 45-50cm (17.7- 19.7in), 61-63cm (28-24.8in), 63-67cm (24.8-26.4in) and 73-75cm (28.7-29.5in). This core was composed of mostly sandy mud, with a sand content of less than 60% for the entire length of the core (Table 69). Sand and shell weights are shown in Table 68. Percent sand, silt and clay are shown in Table 69. Median grain size. mean grain size, skewness and sorting index are shown in Table 70. Graphs of the results are located in Figures 105 and 106.

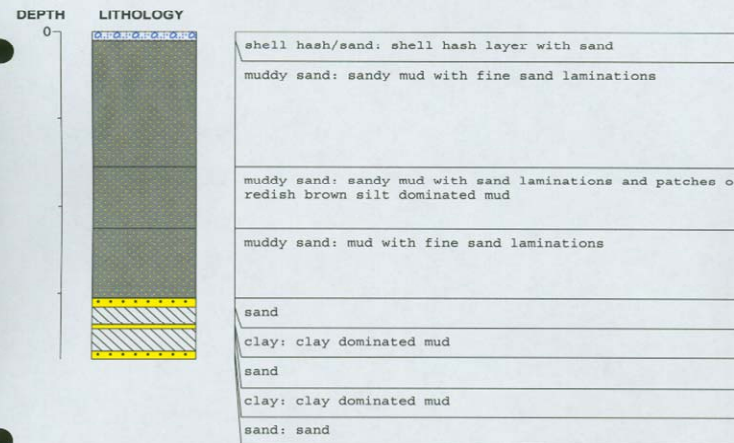
It was determined that core 14E had approximately 20cm (7.9in) of sediment contained at least 50% sand, of which 20cm (7.9in) was located shallower than 1m (39.4in) depth.

Core#: 14E
 Core Date: 7/14/05

Date Split/subsampled: 7/14/05 Length: 75cm
 Lat: 29 10.743 Long: 94 56.470

Centi-Meters	Munsell Soil Color	Depths Sampled	Description:
0-10	0-10cm 5y 3/1	WC 0-1 10-11 20-21	0-2cm → shell hash layer w/ sand
10-61	10-61cm 5y 4/1 with patches of	30-31 40-41 50-51 60-61 70-71	2-31cm → sandy mud w/ fine sand laminations
61-63	10YR 4/1	61-63	31-45cm → sandy mud w/ sand laminations and patches of reddish brown silt dominated mud
63-67	5y 3/1	61-63 63-67 73-75	45-61cm → mud w/ fine sand laminations
67-68	5y 4/1	61-63	61-63 → sand
68-73	5y 3/1	63-67	63-67 → clay dominated mud
73-75	5y 3/1	73-75	67-68 → sand
	5y 3/1		68-73 → clay dominated mud
	5y 3/1		73-75 → sand

Line 14 Site E



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Figure 103: Core Log of 14E for depths 0-75cm
 Figure 104: Computerized core log of 14E

Core ID	Sample Depth (cm)	#10/ 2.0mm Screen Sample Weight (g)	#14/ 1.40mm Screen Sample Weight (g)	#18/ 1.00mm Screen Sample Weight (g)	#25/ 710µm Screen Sample Weight (g)	#35/ 500µm Screen Sample Weight (g)	#45/ 355µm Screen Sample Weight (g)	#60/ 250µm Screen Sample Weight (g)	#80/ 180µm Screen Sample Weight (g)	#125/ 125µm Screen Sample Weight (g)	#170/ 90µm Screen Sample Weight (g)	#200/ 75µm Screen Sample Weight (g)	#230/ 63µm Screen Sample Weight (g)
14E	1-10											38.50	4.48
14E	21-30											5.79	2.91
14E	31-40											10.89	6.64
14E	45-50											2.44	2.62
14E	61-63											11.75	9.35
14E	63-67											1.60	1.25
14E	73-75											12.45	5.84

Table 67: RO-TAP data for core 14E

ASTM Classification		coarse sand	medium sand	medium sand	medium sand	medium sand	fine sand	fine sand	fine sand	fine sand	fine sand	fine sand	silt
Wentworth Classification		granule	very coarse sand	very coarse sand	coarse sand	coarse sand	medium sand	fine sand	fine sand	fine sand	very fine sand	very fine sand	very fine silt
Core ID	Sample Depth (cm)	% finer than N10/ 2.0mm/ -1.0Φ Screen	% finer than N14/ 1.40mm / -0.5Φ Screen	% finer than N18/ 1.00mm/ 0.0Φ Screen	% finer than N25/ 710µm / 0.5Φ Screen	% finer than N35/ 500µm/ 1.0Φ Screen	% finer than N45/ 355µm / 1.5Φ Screen	% finer than N60/ 250µm 2.0Φ Screen	% finer than N80/ 180µm/ 2.5 Φ Screen	% finer than N125/ 125µm/ 3.0Φ Screen	% finer than N170/ 90µm / 3.5Φ Screen	% finer than N200/ 75µm / 4.0Φ Screen	% finer than 4µm/ 8Φ
Observed Contents of the sample		shell only	shell only	shell only	shell only	shell only	shell only	shell only	sand	sand	sand	sand	silt
14E	1-10											40.0	20.2
14E	21-30											80.6	43.1
14E	31-40											74.8	27.9
14E	45-50											89.6	41.4
14E	61-63											68.8	21.0
14E	63-67											92.8	52.8
14E	73-75											65.2	11.2

Table 68: Percent Finer table for core 14E

Core ID	Sample Depth (cm)	shell weight	200+ weight	200-230 weight	sand + shell
14E	1-10		38.50	4.48	38.50
14E	21-30		5.79	2.91	5.79
14E	31-40		10.89	6.64	10.89
14E	45-50		2.44	2.62	2.44
14E	61-63		11.75	9.35	11.75
14E	63-67		1.60	1.25	1.60
14E	73-75		12.45	5.84	12.45

Table 69: Shell and Sand weights in core 14E

Core ID	sample id	mid sample depth	% shell	% sand	%silt	%clay	total %
14E	1-10	5.5		60.0	19.8	20.2	100
14E	21-30	25.5		19.4	37.5	43.1	100
14E	31-40	35.5		25.2	46.9	27.9	100
14E	45-50	47.5		10.4	48.3	41.4	100
14E	61-63	62		31.2	47.7	21.0	100
14E	63-67	65		7.2	40.0	52.8	100
14E	73-75	74		34.8	54.0	11.2	100

Table 70: Percent Shell, Sand, Silt and Clay for core 14E

Station ID	Average Depth	Median Grain Size	Median Grain Size	Mean Grain Size	Mean Grain Size	Skewness	Sorting Index
	(cm)	(phi)	(mm)	(phi)	(mm)		
CC14E/1-10	5.5						
CC14E/21-30	25.5						
CC14E/31-40	35.5						
CC14E/45-50	47.5						
CC14E/61-63	62						
CC14E/63-67	65						
CC14E/73-75	74						

PINK=Upper sand area

Table 71: Mean grain size for core 14E

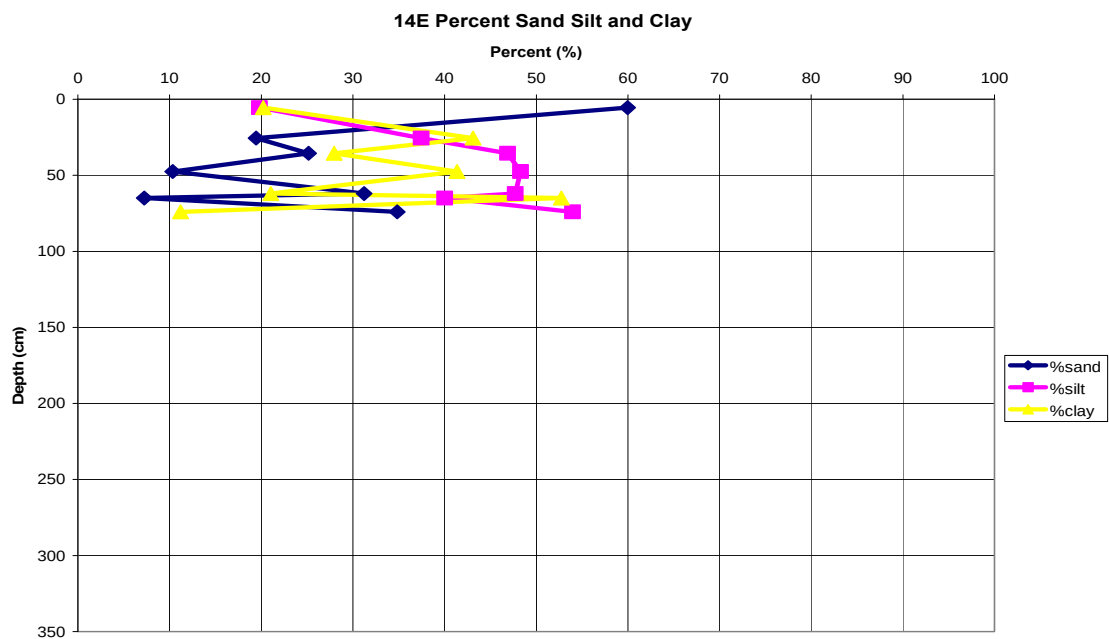


Figure 105: Percent Sand Silt and Clay for core 14E

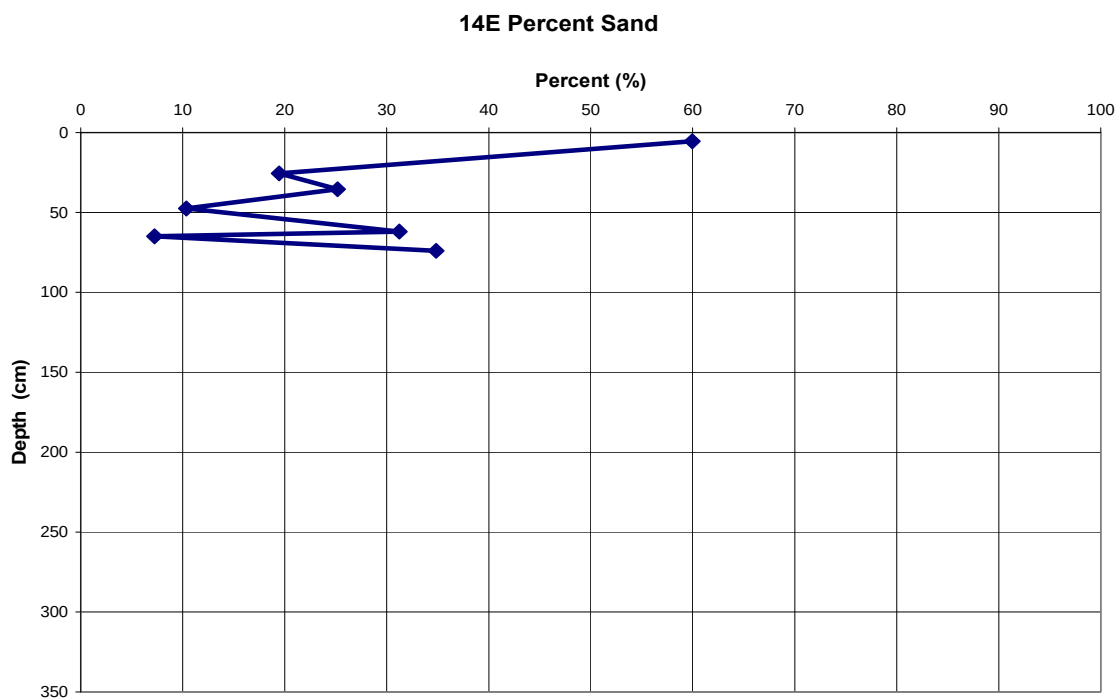


Figure 106: Percent Sand for core 14E