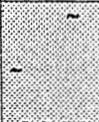
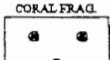
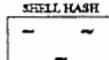
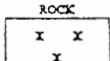
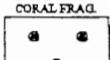
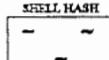
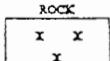
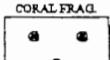
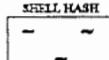
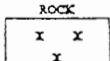


VIBRACORE LOG							
PROJECT: <u>NORTH BOCA RATON BORROW AREA (1984)</u>				CORE NO: <u>NBR - 19</u>			
<u>COORDINATES:</u>	DATE: SEPT. 24, 1994	WATER DEPTH: 53.3 Ft. NGVD					
N = 739003	START TIME: 1034	DRILLER: EXMAR					
E = 807998	END TIME: 1058	CLIENT REP : M. ANDREWS					
CORE DIAMETER: 3.0"	ELEV.	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS	
LENGTH OF BARREL: 20.0'	53.3'	0.0		GRAY, MEDIUM QUARTZOSE SAND WITH GRAY & BLACK CALCAROUS SHELL HASH	1 3.0'	2.20 Phi 0.22 mm 2.1 % SILT (SP) CUT	
PENETRATION DEPTH: 16.5'	56.3'	—					
LENGTH RECOVERED: 15.3'		—					
PERCENT RECOVERED: 83 %		—					
LENGTH RETAINED : 15.3'	56.3'	—	—	GRAY, MEDIUM QUARTZOSE SAND WITH GRAY & BLACK CALCAROUS SHELL HASH	2 8.0'	2.25 Phi 0.21 mm 2.4 % SILT (SP) CUT	
SUPPORT VESSEL: SEAWARD EXPLORER	61.3'	—					
POSITIONING: DGPS		—					
MOTOROLA LGT 1000 / OMNISTAR DGPS		—					
<u>WEATHER:</u>		61.3'	—	GRAY, MEDIUM QUARTZOSE SAND WITH GRAY & BLACK CALCAROUS SHELL HASH	2 8.0'	2.25 Phi 0.21 mm 2.4 % SILT (SP) CUT	
<u>WIND:</u>			—				
DIR : SE	61.3'		—				
SPEED : 5 - 10 Kt			—				
<u>WAVES:</u>		61.3'	—	GRAY, MEDIUM QUARTZOSE SAND WITH GRAY & BLACK CALCAROUS SHELL HASH	2 8.0'	2.25 Phi 0.21 mm 2.4 % SILT (SP) CUT	
DIR : SE			—				
HEIGHT: 1 - 2 Ft.			—				
<u>CURRENT:</u>			—				
DIR : SOUTH		61.3'	—	GRAY, MEDIUM QUARTZOSE SAND WITH GRAY & BLACK CALCAROUS SHELL HASH	2 8.0'	2.25 Phi 0.21 mm 2.4 % SILT (SP) CUT	
SPEED : MODERATE			—				
<u>ANALYSIS BY: MDA</u>			—				
<u>ANALYSIS METHOD:</u>			—				
VISUAL LOGGING		61.3'	—	GRAY, MEDIUM QUARTZOSE SAND WITH GRAY & BLACK CALCAROUS SHELL HASH	2 8.0'	2.25 Phi 0.21 mm 2.4 % SILT (SP) CUT	
MECHANICAL SIEVE			—				
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> SAND  </div> <div style="text-align: center;"> SHELLS  </div> </div>			—				
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> CORAL FRAG.  </div> <div style="text-align: center;"> SHELL HASH  </div> </div>			—				
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> ROCK  </div> </div>		61.3'	—	GRAY, MEDIUM QUARTZOSE SAND WITH GRAY & BLACK CALCAROUS SHELL HASH	2 8.0'	2.25 Phi 0.21 mm 2.4 % SILT (SP) CUT	
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> SAND  </div> <div style="text-align: center;"> SHELLS  </div> </div>			—				
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> CORAL FRAG.  </div> <div style="text-align: center;"> SHELL HASH  </div> </div>			—				
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> ROCK  </div> </div>			—				
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> SAND  </div> <div style="text-align: center;"> SHELLS  </div> </div>		61.3'	—	GRAY, MEDIUM QUARTZOSE SAND WITH GRAY & BLACK CALCAROUS SHELL HASH	2 8.0'	2.25 Phi 0.21 mm 2.4 % SILT (SP) CUT	
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> CORAL FRAG.  </div> <div style="text-align: center;"> SHELL HASH  </div> </div>			—				
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> ROCK  </div> </div>							

COASTAL PLANNING & ENGINEERING, INC