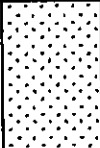
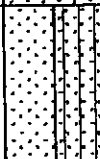


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DUFFIELD ASSOCIATES 5400 Limestone Road Wilmington, Delaware 19806-1232 TEL: (302) 238-8834 FAX: (302) 238-8485 E-MAIL: DUFFIELD@DUFFNET.COM	Vibrocore KHV-104 R2		Uncorrected Depth : 26.6 feet Tide : +0.4 feet Corrected Depth : 26.2 feet (1) Vibration time : 1'55" Core penetration : 18.4 feet (3) Core recovery : 5.8 feet (4) Percent recovery : 118 % (3) (4) (5)
	U.S. Army Corps of Engineers Vibrocore-Delaware Coast Contract Number DACW-61-98-D-0008 Task Order 22 2000 Vibrocore: Bethany/South Bethany PED		Date : April 30, 2000 Weather : Sunny, breezy, 60's Vibrocore contractor : Alpine Ocean Seismic Sur. Location : Indian River Ebb Shoal Northing Coord. : N 221,014.6 DE-NAD 83 Easting Coord. : E 762,609.8 DE-NAD 83

Depth in Feet	Soil Surf. Elev. (1)	USCS	GRAPHIC	DESCRIPTION	Core Interval	Sample No./Interval
0	-26.2			Jet to 13.5', then start vibration.		
-27						
5	-32					
10	-37					
15	-42	SP		Light-gray fine SAND, trace silt/clay, trace medium sand.	1/13.5-16.3	
		SP-SM		Dark-gray fine SAND, trace silt/clay, trace medium sand, trace gravel.	1/16.3-19.1	
20						

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- Notes:
- Corrected water depth and soil surface elevation datum is NGVD.
 - Sample depths are based on core recovery lengths.
 - Actual sample collection from 13.5 feet to 18.4 feet, total sampled length 4.9 feet. Percent recovery based on this length.
 - Core recovery measured in field, may not be reflected in total sample length.
 - Percent recovery reflects "over recovery" of sample possibly due to sample heave in liner and/or difficulty of penetration through dense strata.
 - Soil descriptions & USCS classifications according to Visual-Manual Procedure (ASTM D 2488) and/or mechanical sieve analysis if analysis performed.