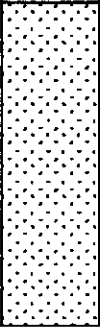


PJ13-05

<b>DUFFIELD ASSOCIATES</b> <small>3499 LIMESTONE ROAD          WILMINGTON, DELAWARE 19806-1232          TEL: (302)239-8834 FAX: (302)239-3485          E-MAIL: DUFFIELD@DUFFNET.COM</small>	<b>Vibrocore KHV-103 R2</b>		Uncorrected Depth : 23.5 feet Tide : +2.2 feet Corrected Depth : 21.3 feet (1) Vibration time : 6'46" (Includes time to jet) Core penetration : 13.4 feet (3) Core recovery : 5.0 feet (4) Percent recovery : 93 % (3) (4)
	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 27, 2000 Weather : Overcast, 2'-4' seas Vibrocore contractor : Alpine Ocean Seismic Sur. Location : Indian River Ebb Shoal Northing Coord. : N 222,905.9 DE-NAD 83 Easting Coord. : E 761,075.6 DE-NAD 83

Depth in Feet	Soil Surf. Elev. (-21.3 (1))	USCS	GRAPHIC	DESCRIPTION	Core Interval	Sample No./Interval
0				Jet to 8.0', then start vibration.		
-22						
5						
-27						
10		SP		Tan fine SAND, trace medium sand, trace silt/clay, trace shell fragments.	1	1/8.0-13.6
-32						
15						
-37						
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 8.0 feet to 13.4 feet, total sampled length 5.4 feet. Percent recovery based on this depth.
- Core recovery measured in field, may not be reflected in total sample length.
- Soil descriptions & USCS classifications according to Visual-Manual Procedure (ASTM D 2488) and/or mechanical sieve analysis if analysis performed.