

VIBRACORE LOG

Project: <u>BOCA RATON INLET EBB SHOAL</u>		Core No: <u>BR-4</u>	
Coordinates:	Date: <u>02-18-93</u>	Water Depth <u>16.0'</u> NGVD	
N = <u>727461</u>	Start Time <u>1620</u>	Driller <u>EXMAR</u>	
E = <u>804957</u>	End Time <u>1625</u>	Client Rep. <u>MDA/JLA</u>	

	Elev.	Depth	Legend	Description	Samp. No.	Remarks
Core Diam. <u>2.75"</u>		0				
Length of Barrel <u>11.5'</u>				GRAY, MEDIUM GRAIN QZ SAND		
Penetration Depth <u>11.5'</u>				Lt. BROWN, MEDIUM GRAIN QZ SAND w/ SHELL HASH		
Length Recovered <u>7.6</u>		2.5		Lt. BROWN AND Lt. GRAY, MEDIUM GRAIN QZ SAND	⑧ 2.6'	
Length Retained <u>7.6</u>				GRAY, MEDIUM GRAIN QZ SAND		
Remarks:		5.0		BROWN, MEDIUM GRAIN QZ SAND		
0.7' FELL OUT OF BIT				GRAY AND BROWN MEDIUM GRAIN QZ SAND		
Support Vessel <u>EXMAR BOAT</u>				DARK GRAY, MEDIUM GRAIN QZ SAND	⑨ 6.7'	
Positioning System <u>TRISPONDER</u>		7.5				
Positioning Remarks:						
Weather <u>CLEAR</u>						
Wind <u>NW</u>						
Dir: <u>NW</u>						
Est. Speed <u>5 TO 10 Kt.</u>						
Waves <u>NW</u>						
Dir: <u>NW</u>						
Height <u>1 TO 2 Ft.</u>						
Current <u>NA</u>						
Dir: <u>NA</u>						
Est. Speed: _____						
Analysis By: <u>MDA</u>						
Date: <u>03-05-93</u>						
Analysis Method:						
<u>VISUAL LOG</u>						
<u>MECHANICAL SIEVE</u>		10.0				

GRADATION ANALYSIS REPORT
BOCA INLET EBB SHOAL 02-18-93

TESTED BY: MDA ON: 03-09-93

SAMPLE NO.: CORE #4
SAMPLE ELEV. (FT. NGVD): -9.0
SAMPLE DEPTH (FT.): 2.6
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 224.80
SAMPLE WEIGHT AFTER WASH (GRAMS): 223.60

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.0	16.000	.00	.00	100.00
5/16	-3.0	8.000	3.20	1.42	98.58
5	-2.0	4.000	6.40	2.85	97.15
7	-1.5	2.800	9.40	4.18	95.82
10	-1.0	2.000	13.40	5.96	94.04
14	-0.5	1.400	20.50	9.12	90.88
18	0.0	1.000	30.90	13.75	86.25
25	0.5	.710	49.30	21.93	78.07
35	1.0	.500	90.20	40.12	59.88
45	1.5	.355	139.50	62.06	37.94
60	2.0	.250	204.40	90.93	9.07
80	2.5	.180	221.50	98.53	1.47
120	3.0	.125	223.20	99.29	.71
170	3.5	.090	223.50	99.42	.58
200	3.75	.075	223.55	99.44	.56
230	4.0	.063	224.15	99.71	.29
PAN			224.75	99.98	.02

SIEVE LOSS(g):	.05		
MEDIAN (mm):	.428	MEAN (mm):	.555
SILT/CLAY:	.56%	SORTING:	.871
SKEWNESS:	-1.452	KURTOSIS:	1.272

PHI(5): -1.27	PHI(16): .14	PHI(25): .58
PHI(50): 1.23	PHI(75): 1.72	PHI(84): 1.88
PHI(95): 2.27		
COEFFICIENT OF CURVATURE :	.815	
COEFFICIENT OF UNIFORMITY:	1.983	

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: A:C#4-#8.TAB

GRADATION ANALYSIS REPORT
BOCA INLET EBB SHOAL 02-18-93

TESTED BY: MDA ON: 03-09-93

SAMPLE NO.: CORE #4
SAMPLE ELEV. (FT. NGVD): -13.1
SAMPLE DEPTH (FT.): 6.7
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 206.95
SAMPLE WEIGHT AFTER WASH (GRAMS): 203.80

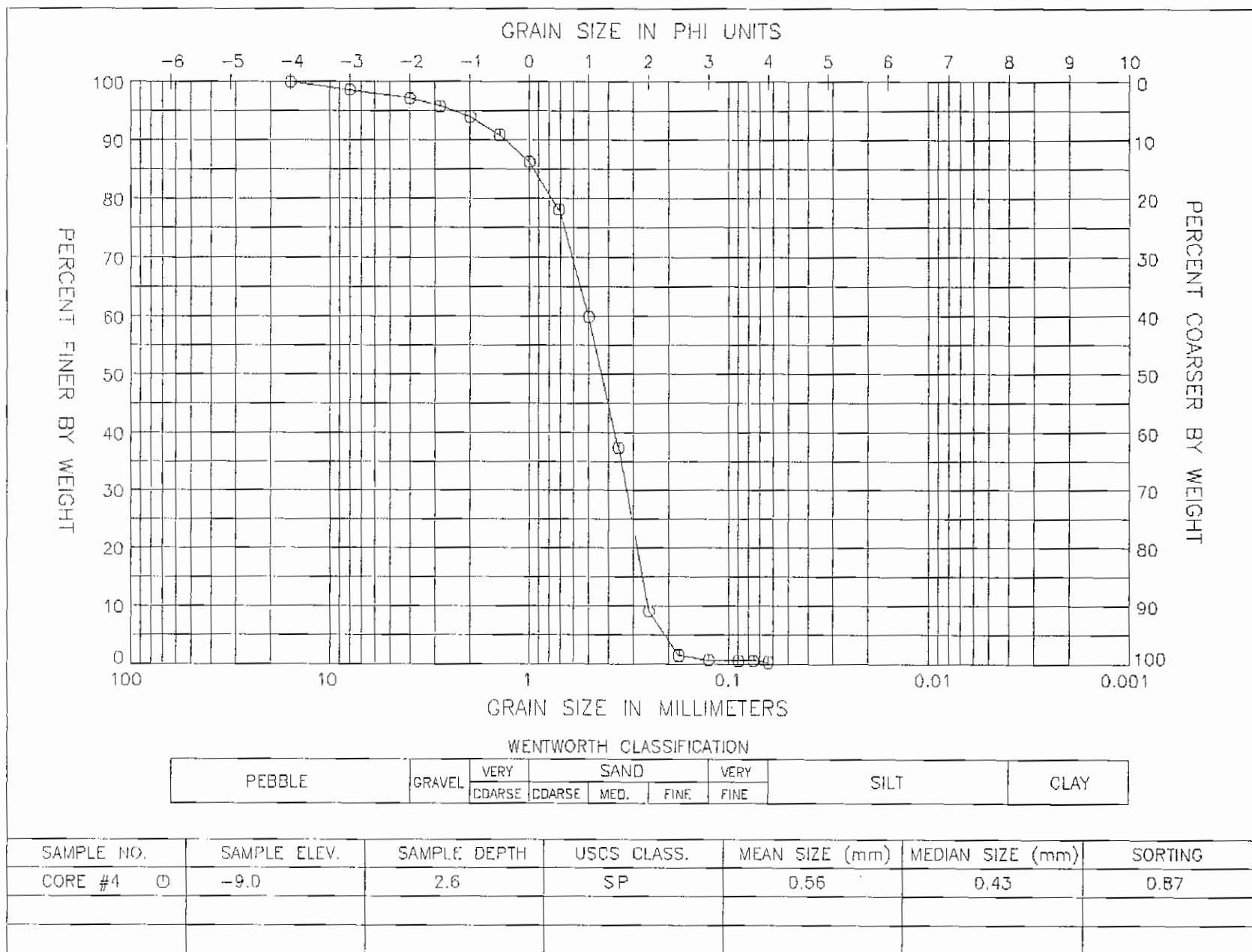
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.0	16.000	.00	.00	100.00
5/16	-3.0	8.000	1.00	.48	99.52
5	-2.0	4.000	1.20	.58	99.42
7	-1.5	2.800	1.60	.77	99.23
10	-1.0	2.000	2.10	1.01	98.99
14	-0.5	1.400	3.60	1.74	98.26
18	0.0	1.000	6.85	3.31	96.69
25	0.5	.710	18.40	8.89	91.11
35	1.0	.500	58.50	28.27	71.73
45	1.5	.355	102.85	49.70	50.30
60	2.0	.250	165.80	80.12	19.88
80	2.5	.180	198.10	95.72	4.28
120	3.0	.125	203.25	98.21	1.79
170	3.5	.090	203.50	98.33	1.67
200	3.75	.075	203.70	98.43	1.57
230	4.0	.063	205.33	99.21	.79
PAN			206.95	100.00	.00

SIEVE LOSS(g):	.00		
MEDIAN (mm):	.352	MEAN (mm):	.382
SILT/CLAY:	1.57%	SORTING:	.720
SKEWNESS:	-.382	KURTOSIS:	.953

PHI(5):	.15	PHI(16):	.68	PHI(25):	.92
PHI(50):	1.50	PHI(75):	1.92	PHI(84):	2.12
PHI(95):	2.48				
COEFFICIENT OF CURVATURE :	.948				
COEFFICIENT OF UNIFORMITY:	2.060				

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: A:C#4-#9.TAB

GRAIN SIZE DISTRIBUTION CURVE
BOCA INLET EBB SHOAL 2/18/93



GRAIN SIZE DISTRIBUTION CURVE
BOCA INLET EBB SHOAL 2/18/93

