

VIBRACORE LOG						
PROJECT: NORTH BOCA RATON BORROW AREA (1984)				CORE NO: BR-10		
COORDINATES:	DATE: SEPT. 12, 1984		WATER DEPTH: 51.0 Ft. NGVD			
N = 739191	START TIME: 1905		DRILLER: EXMAR (W. BARTH)			
E = 807816	END TIME: 1922		CLIENT REP: R. SPADONI			
CORE DIAMETER: 2.5"	ELEV.	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS
LENGTH OF BARREL: 20.0'	51.0'	0.0				
PENETRATION DEPTH: 18.0'						
LENGTH RECOVERED: 17.7'			▲ ▲			1.98 Phi
PERCENT RECOVERED: 98 %			~			0.25 mm
LENGTH RETAINED : 17.7'	53.3'		~		-25	2.7 % SILT
SUPPORT VESSEL: SEAWARD EXPLORER			▲ ▲		2.25'	(SP)
			~			<0.1 % SILT CUT
POSITIONING: TRISPONDER		5.0	~	GRAY, MEDIUM GRAIN SAND WITH SHELL HASH		1.90 Phi
WEATHER:	57.6'		~		-26	0.27 mm
			~		5.6'	2.5 % SILT
			~			(SP)
			~			0.6 % SILT CUT
WIND:			~			
			~			
			~			
			~			
DIR:			~			
			~			
			~			
			~			
SPEED:			~			
			~			
			~			
			~			
WAVES			~			
			~			
			~			
			~			
DIR:			~			
			~			
			~			
			~			
HEIGHT:			~			
			~			
			~			
			~			
ANALYSIS BY CPE 1994			~			
			~			
			~			
			~			
ANALYSIS BY UF 1984			~			
			~			
			~			
			~			
ANALYSIS METHOD:			~			
			~			
			~			
			~			
VISUAL LOGGING			~			
			~			
			~			
			~			
MECHANICAL SIEVE			~			
			~			
			~			
			~			
SAND			~			
			~			
			~			
			~			
SHELLS			~			
			~			
			~			
			~			
CORAL FRAG.			~			
			~			
			~			
			~			
SHELL HASH			~			
			~			
			~			
			~			
GRAY, MEDIUM GRAIN SAND WITH SHELL HASH			~			
			~			
			~			
			~			
BROWN/GRAY, MED. GRAIN SAND WITH SHELL HASH			~			
			~			
			~			
			~			
1.93 Phi			~			
			~			
			~			
			~			
0.26 mm			~			
			~			
			~			
			~			
2.2 % SILT			~			
			~			
			~			
			~			
(SP)			~			
			~			
			~			
			~			
0.4 % SILT			~			
			~			
			~			
			~			
1.93 Phi			~			
			~			
			~			
			~			
0.26 mm			~			
			~			
			~			
			~			
2.2 % SILT			~			
			~			
			~			
			~			
(SP)			~			
			~			
			~			
			~			
0.4 % SILT			~			
			~			
			~			
			~			

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  
NOTE: UF 1984 COMPOSITE 0.28 mm / CPE 1994 COMPOSITE 0.26 mm

COASTAL PLANNING & ENGINEERING, INC

GRADATION ANALYSIS REPORT  
N. BOCA RATON BORROW AREA VC 9/84  
TESTED BY: MDA      ON: 09-02-94

SAMPLE NO.: BR10 S#25  
SAMPLE ELEV. (FT. NGVD): -53.25  
SAMPLE DEPTH (FT.): -2.25  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 71.14  
SAMPLE WEIGHT AFTER WASH (GRAMS): 69.33

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	.00	.00	100.00
5	-2.0	4.000	.00	.00	100.00
7	-1.5	2.800	.31	.44	99.56
10	-1.0	2.000	.84	1.18	98.82
14	-0.5	1.400	1.55	2.18	97.82
18	0.0	1.000	2.55	3.58	96.42
25	0.5	.710	4.57	6.42	93.58
35	1.0	.500	9.12	12.82	87.18
45	1.5	.355	14.62	20.55	79.45
60	2.0	.250	28.05	39.43	60.57
80	2.5	.180	50.47	70.94	29.06
120	3.0	.125	66.98	94.15	5.85
170	3.5	.090	69.13	97.17	2.83
200	3.75	.075	69.23	97.32	2.68
230	4.0	.063	70.19	98.67	1.33
PAN			71.10	99.94	.06

PHI(5): .25      PHI(16): 1.21      PHI(25): 1.62  
PHI(50): 2.17      PHI(75): 2.59      PHI(84): 2.78  
PHI(95): 3.14

SIEVE LOSS(g): .04      SILT/CLAY: 2.68%  
SKEWNESS: -.946      KURTOSIS: 1.222

GRAPHIC METHOD

MEAN (PHI): 1.91      SORTING: .79  
MEAN (mm) : .27      MEDIAN (mm): .22

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.98      SORTING: .89  
MEAN (mm) : .25

DATA FILE NAME: B:VC10S#25.TAB

GRADATION ANALYSIS REPORT  
N. BOCA RATON BORROW AREA VC 9/84  
TESTED BY: MDA ON: 09-02-94

SAMPLE NO.: BR10 S#26  
SAMPLE ELEV. (FT. NGVD): -56.6  
SAMPLE DEPTH (FT.): -5.6  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 79.17  
SAMPLE WEIGHT AFTER WASH (GRAMS): 77.23

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	.00	.00	100.00
5	-2.0	4.000	.59	.75	99.25
7	-1.5	2.800	.98	1.24	98.76
10	-1.0	2.000	1.73	2.19	97.81
14	-0.5	1.400	2.48	3.13	96.87
18	0.0	1.000	3.24	4.09	95.91
25	0.5	.710	4.85	6.13	93.87
35	1.0	.500	9.82	12.40	87.60
45	1.5	.355	16.77	21.18	78.82
60	2.0	.250	35.22	44.49	55.51
80	2.5	.180	60.84	76.85	23.15
120	3.0	.125	75.55	95.43	4.57
170	3.5	.090	77.07	97.35	2.65
200	3.75	.075	77.17	97.47	2.53
230	4.0	.063	78.16	98.72	1.28
PAN			79.15	99.97	.03

PHI(5): .22	PHI(16): 1.20	PHI(25): 1.58
PHI(50): 2.09	PHI(75): 2.47	PHI(84): 2.69
PHI(95): 2.99		

SIEVE LOSS(g): .02	SILT/CLAY: 2.53%
SKEWNESS: -.959	KURTOSIS: 1.274

GRAPHIC METHOD

MEAN (PHI): 1.84	SORTING: .74
MEAN (mm): .28	MEDIAN (mm): .24

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.90	SORTING: .93
MEAN (mm): .27	

DATA FILE NAME: B:VC10S#26.TAB

GRADATION ANALYSIS REPORT  
N. BOCA RATON BORROW AREA VC 9/84  
TESTED BY: MDA      ON: 09-02-94

SAMPLE NO.: BR10 S#27  
SAMPLE ELEV. (FT. NGVD): -60.7  
SAMPLE DEPTH (FT.): -9.7  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 76.78  
SAMPLE WEIGHT AFTER WASH (GRAMS): 75.12

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	.00	.00	100.00
5	-2.0	4.000	.00	.00	100.00
7	-1.5	2.800	.34	.44	99.56
10	-1.0	2.000	.84	1.09	98.91
14	-0.5	1.400	1.29	1.68	98.32
18	0.0	1.000	1.85	2.41	97.59
25	0.5	.710	3.33	4.34	95.66
35	1.0	.500	7.64	9.95	90.05
45	1.5	.355	14.82	19.30	80.70
60	2.0	.250	35.99	46.87	53.13
80	2.5	.180	59.26	77.18	22.82
120	3.0	.125	72.87	94.91	5.09
170	3.5	.090	74.89	97.54	2.46
200	3.75	.075	75.02	97.71	2.29
230	4.0	.063	75.89	98.84	1.16
PAN			76.72	99.92	.08

PHI(5): .56      PHI(16): 1.32      PHI(25): 1.60  
PHI(50): 2.05      PHI(75): 2.46      PHI(84): 2.69  
PHI(95): 3.02

SIEVE LOSS(g): .06      SILT/CLAY: 2.29%  
SKEWNESS: -.527      KURTOSIS: 1.171

GRAPHIC METHOD

MEAN (PHI): 1.93      SORTING: .68  
MEAN (mm): .26      MEDIAN (mm): .24  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.95      SORTING: .80  
MEAN (mm): .26

DATA FILE NAME: B:VC10S#27.TAB

GRADATION ANALYSIS REPORT  
N. BOCA RATON BORROW AREA VC 9/84  
TESTED BY: MDA            ON: 09-02-94

SAMPLE NO.: BR10 S#28  
SAMPLE ELEV. (FT. NGVD): -66.6  
SAMPLE DEPTH (FT.): -15.6  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 73.88  
SAMPLE WEIGHT AFTER WASH (GRAMS): 72.40

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	.00	.00	100.00
5	-2.0	4.000	.06	.08	99.92
7	-1.5	2.800	.35	.47	99.53
10	-1.0	2.000	.84	1.14	98.86
14	-0.5	1.400	1.54	2.08	97.92
18	0.0	1.000	2.44	3.30	96.70
25	0.5	.710	4.17	5.64	94.36
35	1.0	.500	7.75	10.49	89.51
45	1.5	.355	13.41	18.15	81.85
60	2.0	.250	34.02	46.05	53.95
80	2.5	.180	58.69	79.44	20.56
120	3.0	.125	70.99	96.09	3.91
170	3.5	.090	72.21	97.74	2.26
200	3.75	.075	72.29	97.85	2.15
230	4.0	.063	73.06	98.89	1.11
PAN			73.81	99.91	.09

PHI(5): .36            PHI(16): 1.36            PHI(25): 1.62  
PHI(50): 2.06            PHI(75): 2.43            PHI(84): 2.64  
PHI(95): 2.97

SIEVE LOSS(g): .07            SILT/CLAY: 2.15%  
SKEWNESS: -.789            KURTOSIS: 1.317

GRAPHIC METHOD

MEAN (PHI): 1.88            SORTING: .64  
MEAN (mm) : .27            MEDIAN (mm): .24  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

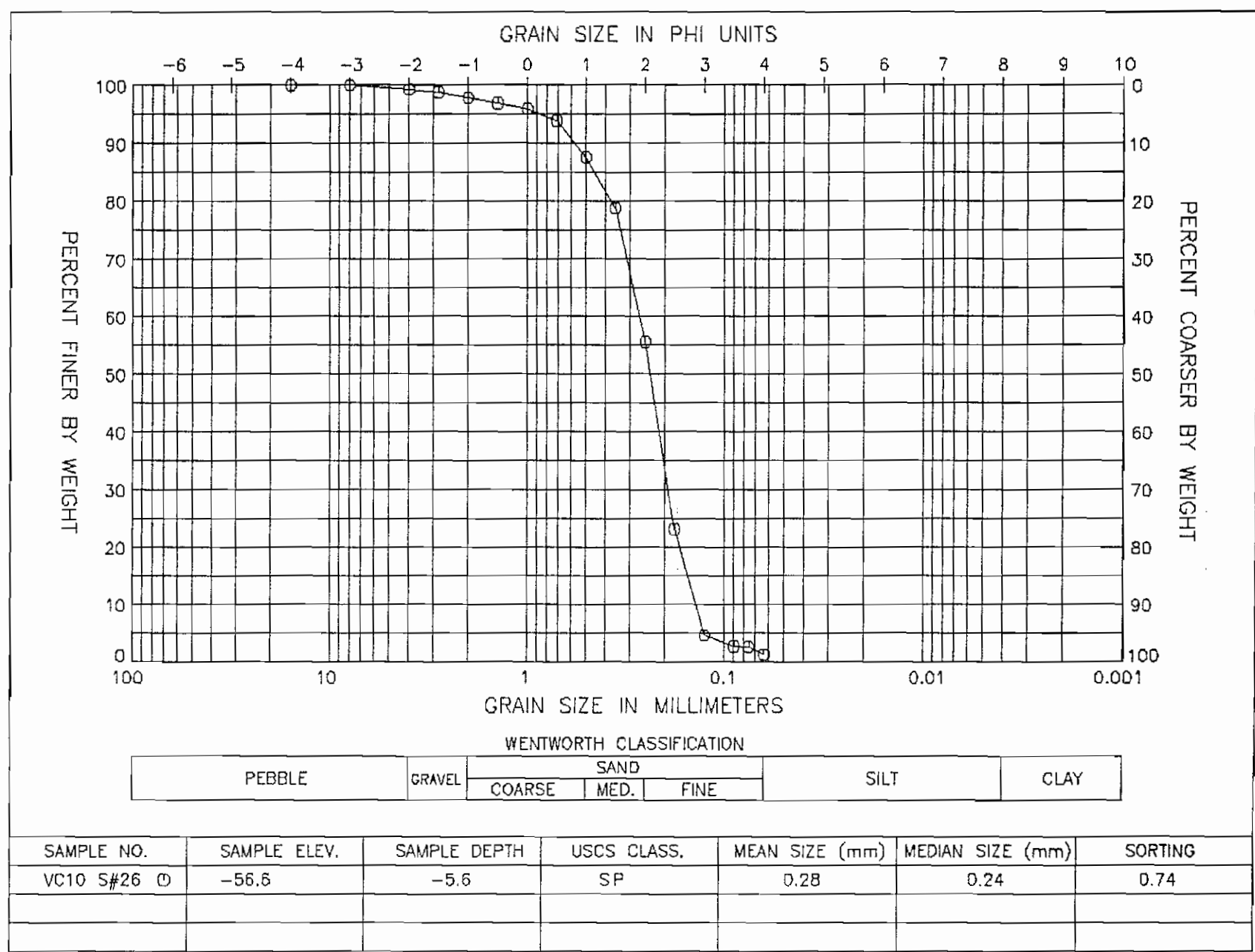
MOMENT METHOD

MEAN (PHI): 1.93            SORTING: .82  
MEAN (mm) : .26

DATA FILE NAME: B:VC10S#28.TAB



GRAIN SIZE DISTRIBUTION CURVE  
N. BOCA RATON BORROW AREA VC 9/84



GRAIN SIZE DISTRIBUTION CURVE  
N. BOCA RATON BORROW AREA VC 9/84

