

VIBRACORE LOG							
PROJECT: NORTH BOCA RATON BORROW AREA (1984)				CORE NO: BR-8			
COORDINATES:		DATE: SEPT. 12, 1984		WATER DEPTH: 47.0 FL NGVD			
N = 741173		START TIME: 1300		DRILLER: EXMAR (W. BARTH)			
E = 807897		END TIME: 1245		CLIENT REP: R. SPADONI			
CORE DIAMETER: 2.5"		ELEV.	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS
LENGTH OF BARREL: 20.0'		47.0'	0.0				
PENETRATION DEPTH: 19.0'							
LENGTH RECOVERED: 19.0'						1.5'	0.2 % SILT
PERCENT RECOVERED: 95 %							
LENGTH RETAINED : 19.0'							
SUPPORT VESSEL: SEAWARD EXPLORER						4.0'	0.1 % SILT CUT
POSITIONING: TRISPONDER			5.0		GRAY, MEDIUM GRAIN SAND WITH SHELL HASH		
WEATHER:				D R E D G E D			
WIND:				1 9 8 8		7.0'	1.2 % SILT
DIR:							
SPEED:					9.0 FT		CUT
WAVES							
DIR:			10.0				
HEIGHT:							
ANALYSIS BY CPE 1994		58.7'				-19	2.05 Phi
ANALYSIS BY UF 1984						11.7	0.24 mm
ANALYSIS METHOD:							3.1 % SILT (SP)
VISUAL LOGGING							<0.1 % SILT CUT
MECHANICAL SIEVE			15.0		BROWN/GRAY, FINE GRAIN SAND WITH SHELLS AND SHELLS HASH		
SAND						20	2.11 Phi
SHELLS						17.0'	0.23 mm
CORAL FRAG.							5.4 % SILT (SP)
SHELL HASH							0.2 % SILT
		66.0'	19.0				
			20.0				

COASTAL PLANNING & ENGINEERING, INC

GRADATION ANALYSIS REPORT

N. BOCA RATON BORROW AREA VC 9/84

TESTED BY: MDA ON: 09-02-94

SAMPLE NO.: BR8 S#19

SAMPLE ELEV. (FT. NGVD): -58.7

SAMPLE DEPTH (FT.): -11.7

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 71.97

SAMPLE WEIGHT AFTER WASH (GRAMS): 69.83

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	.04	.06	99.94
10	-1.0	2.000	.13	.18	99.82
14	-0.5	1.400	.29	.40	99.60
18	0.0	1.000	.66	.92	99.08
25	0.5	.710	1.41	1.96	98.04
35	1.0	.500	4.85	6.74	93.26
45	1.5	.355	11.82	16.42	83.58
60	2.0	.250	30.51	42.39	57.61
80	2.5	.180	53.91	74.91	25.09
120	3.0	.125	68.39	95.03	4.97
170	3.5	.090	69.67	96.80	3.20
200	3.75	.075	69.74	96.90	3.10
230	4.0	.063	70.82	98.40	1.60
PAN			71.90	99.90	.10

PHI(5): .82

PHI(16): 1.48

PHI(25): 1.67

PHI(50): 2.12

PHI(75): 2.50

PHI(84): 2.73

PHI(95): 3.00

SIEVE LOSS(g): .07

SILT/CLAY: 3.10%

SKEWNESS: -.417

KURTOSIS: 1.068

GRAPHIC METHOD

MEAN (PHI): 2.03

SORTING: .62

MEAN (mm): .25

MEDIAN (mm): .23

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.05

SORTING: .68

MEAN (mm): .24

DATA FILE NAME: B:VC8S#19.TAB

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

SAMPLE NO.: BR8 S#20
SAMPLE ELEV. (FT. NGVD): -64.0
SAMPLE DEPTH (FT.): -17.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 64.13
SAMPLE WEIGHT AFTER WASH (GRAMS): 60.81

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	.36	.56	99.44
7	-1.5	2.800	.47	.73	99.27
10	-1.0	2.000	.79	1.23	98.77
14	-0.5	1.400	1.07	1.67	98.33
18	0.0	1.000	1.51	2.35	97.65
25	0.5	.710	2.47	3.85	96.15
35	1.0	.500	5.14	8.01	91.99
45	1.5	.355	9.44	14.72	85.28
60	2.0	.250	23.72	36.99	63.01
80	2.5	.180	42.32	65.99	34.01
120	3.0	.125	57.66	89.91	10.09
170	3.5	.090	60.35	94.11	5.89
200	3.75	.075	60.67	94.60	5.40
230	4.0	.063	62.40	97.30	2.70
PAN			64.08	99.92	.08

PHI(5): .64 PHI(16): 1.53 PHI(25): 1.73
PHI(50): 2.22 PHI(75): 2.69 PHI(84): 2.88
PHI(95): 3.79

SIEVE LOSS(g): .05 SILT/CLAY: 5.40%
SKEWNESS: -.024 KURTOSIS: 1.348

GRAPHIC METHOD

MEAN (PHI): 2.21 SORTING: .67
MEAN (mm) : .22 MEDIAN (mm): .21
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.11 SORTING: .87
MEAN (mm) : .23

DATA FILE NAME: B:VC8S#20.TAB

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

