

VIBRACORE LOG							
PROJECT: NORTH BOCA RATON BORROW AREA (1984)				CORE NO: BR-6			
COORDINATES:		DATE: SEPT. 12, 1984		WATER DEPTH: 47.0 Ft. NGVD			
N = 743235		START TIME: 0903		DRILLER: EXMAR (W. BARTH)			
E = 808065		END TIME: 0919		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: 20.0'				LT. BROWN FINE GRAIN SD			
LENGTH RECOVERED: 17.0'						2.11 Phi	
PERCENT RECOVERED: 85 %						0.23 mm	
LENGTH RETAINED : 17.0'	49.5'				13	4.0 % SILT	
					2.5	(SF)	
SUPPORT VESSEL: SEAWARD EXPLORER						0.7 % SILT	
POSITIONING: TRISPOUNDER						CUT	
		5.0		GRAY, MEDIUM GRAIN SAND WITH SHELL HASH	4.0'	0.2 % SILT	
						2.17 Phi	
WEATHER:	53.0'				14	0.22 mm	
WIND:					6.0'	7.0 % SILT	
DIR:						(SF)	
SPEED:						0.3 % SILT	
WAVES	56.0'				15	CUT	
DIR:						1.76 Phi	
HEIGHT:		10.0		GRAY, MEDIUM GRAIN SAND WITH SHELL HASH	9.0'	0.36 mm	
						1.5 % SILT	
						(SF)	
ANALYSIS BY CPE 1994	60.0'				16	0.7 % SILT	
ANALYSIS BY UF 1984					13.0'	CUT	
ANALYSIS METHOD:						1.88 Phi	
VISUAL LOGGING						0.27 mm	
MECHANICAL SIEVE		15.0		GRAY, MEDIUM GRAIN SAND WITH SHELL HASH		1.6 % SILT	
						(SF)	
SAND						0.6 % SILT	
SHELLS							
CORAL FRAG.							
SHELL HASH							
	64.0'	20.0					

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  
 NOTE: UF 1984 COMPOSITE 0.29 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.: BR6 S#13  
SAMPLE ELEV. (FT. NGVD): -49.5  
SAMPLE DEPTH (FT.): -2.5  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 75.82  
SAMPLE WEIGHT AFTER WASH (GRAMS): 72.79

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	.05	.07	99.93
10	-1.0	2.000	.26	.34	99.66
14	-0.5	1.400	.47	.62	99.38
18	0.0	1.000	.73	.96	99.04
25	0.5	.710	1.43	1.89	98.11
35	1.0	.500	4.15	5.47	94.53
45	1.5	.355	9.64	12.71	87.29
60	2.0	.250	28.50	37.59	62.41
80	2.5	.180	55.53	73.24	26.76
120	3.0	.125	70.49	92.97	7.03
170	3.5	.090	72.63	95.79	4.21
200	3.75	.075	72.77	95.98	4.02
230	4.0	.063	74.31	98.00	2.00
PAN			75.82	100.00	.00

PHI(5): .93 PHI(16): 1.57 PHI(25): 1.75  
PHI(50): 2.17 PHI(75): 2.54 PHI(84): 2.77  
PHI(95): 3.36

SIEVE LOSS(g): .00 SILT/CLAY: 4.02%  
SKEWNESS: -.055 KURTOSIS: 1.246

GRAPHIC METHOD

MEAN (PHI): 2.16 SORTING: .60  
MEAN (mm) : .22 MEDIAN (mm): .22

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.11 SORTING: .68  
MEAN (mm) : .23

DATA FILE NAME: B:VC6S#13.TAB

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

SAMPLE NO.: BR6 S#14  
SAMPLE ELEV. (FT. NGVD): -53.0  
SAMPLE DEPTH (FT.): -6.0  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 80.97  
SAMPLE WEIGHT AFTER WASH (GRAMS): 75.53

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	.07	.09	99.91
7	-1.5	2.800	.07	.09	99.91
10	-1.0	2.000	.19	.23	99.77
14	-0.5	1.400	.42	.52	99.48
18	0.0	1.000	.84	1.04	98.96
25	0.5	.710	1.60	1.98	98.02
35	1.0	.500	4.70	5.80	94.20
45	1.5	.355	10.51	12.98	87.02
60	2.0	.250	28.12	34.73	65.27
80	2.5	.180	52.83	65.25	34.75
120	3.0	.125	72.50	89.54	10.46
170	3.5	.090	75.06	92.70	7.30
200	3.75	.075	75.31	93.01	6.99
230	4.0	.063	78.10	96.46	3.54
PAN			80.89	99.90	.10

PHI(5): .89      PHI(16): 1.57      PHI(25): 1.78  
PHI(50): 2.25      PHI(75): 2.70      PHI(84): 2.89  
PHI(95): 3.89

SIEVE LOSS(g): .08      SILT/CLAY: 6.99%  
SKEWNESS: .289      KURTOSIS: 1.330

GRAPHIC METHOD

MEAN (PHI): 2.30      SORTING: .66  
MEAN (mm) : .20      MEDIAN (mm): .21  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.17      SORTING: .74  
MEAN (mm) : .22

DATA FILE NAME: B:VC6S#14.TAB

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

SAMPLE NO.: BR6 S#15  
SAMPLE ELEV. (FT. NGVD): -56.0  
SAMPLE DEPTH (FT.): -9.0  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 78.70  
SAMPLE WEIGHT AFTER WASH (GRAMS): 77.60

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	.00	.00	100.00
5	-2.0	4.000	.64	.81	99.19
7	-1.5	2.800	.82	1.04	98.96
10	-1.0	2.000	1.10	1.40	98.60
14	-0.5	1.400	1.67	2.12	97.88
18	0.0	1.000	2.60	3.30	96.70
25	0.5	.710	5.09	6.47	93.53
35	1.0	.500	11.57	14.70	85.30
45	1.5	.355	20.60	26.18	73.82
60	2.0	.250	44.63	56.71	43.29
80	2.5	.180	67.92	86.30	13.70
120	3.0	.125	77.00	97.84	2.16
170	3.5	.090	77.49	98.46	1.54
200	3.75	.075	77.50	98.48	1.52
230	4.0	.063	78.06	99.19	.81
PAN			78.62	99.90	.10

PHI(5): .27      PHI(16): 1.06      PHI(25): 1.45  
PHI(50): 1.89      PHI(75): 2.31      PHI(84): 2.46  
PHI(95): 2.88

SIEVE LOSS(g): .08      SILT/CLAY: 1.52%  
SKEWNESS: -.635      KURTOSIS: 1.243

GRAPHIC METHOD

MEAN (PHI): 1.71      SORTING: .70  
MEAN (mm): .31      MEDIAN (mm): .27

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.76      SORTING: .85  
MEAN (mm): .30

DATA FILE NAME: B:VC6S#15.TAB

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

SAMPLE NO.: BR6 S#16  
SAMPLE ELEV. (FT. NGVD): -60.0  
SAMPLE DEPTH (FT.): -13.0  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 70.42  
SAMPLE WEIGHT AFTER WASH (GRAMS): 69.38

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	.21	.30	99.70
7	-1.5	2.800	.42	.60	99.40
10	-1.0	2.000	.64	.91	99.09
14	-0.5	1.400	1.01	1.43	98.57
18	0.0	1.000	1.66	2.36	97.64
25	0.5	.710	3.17	4.50	95.50
35	1.0	.500	7.08	10.05	89.95
45	1.5	.355	13.51	19.18	80.82
60	2.0	.250	36.28	51.52	48.48
80	2.5	.180	59.72	84.81	15.19
120	3.0	.125	68.74	97.61	2.39
170	3.5	.090	69.29	98.40	1.60
200	3.75	.075	69.31	98.42	1.58
230	4.0	.063	69.84	99.18	.82
PAN			70.37	99.93	.07

PHI(5): .54 PHI(16): 1.33 PHI(25): 1.59  
PHI(50): 1.98 PHI(75): 2.35 PHI(84): 2.49  
PHI(95): 2.90

SIEVE LOSS(g): .05 SILT/CLAY: 1.58%  
SKEWNESS: -.510 KURTOSIS: 1.264

GRAPHIC METHOD

MEAN (PHI): 1.85 SORTING: .58  
MEAN (mm): .28 MEDIAN (mm): .25

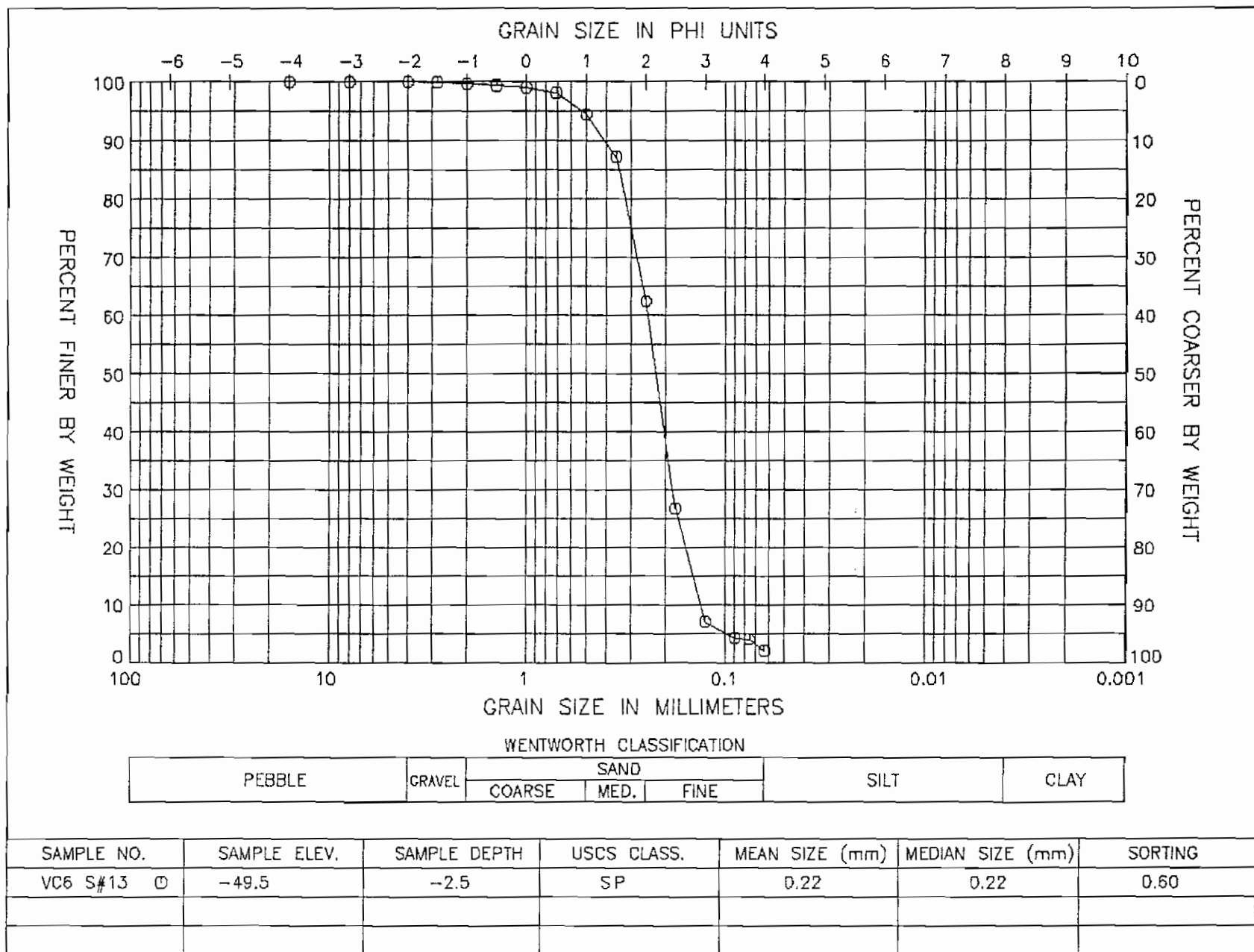
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

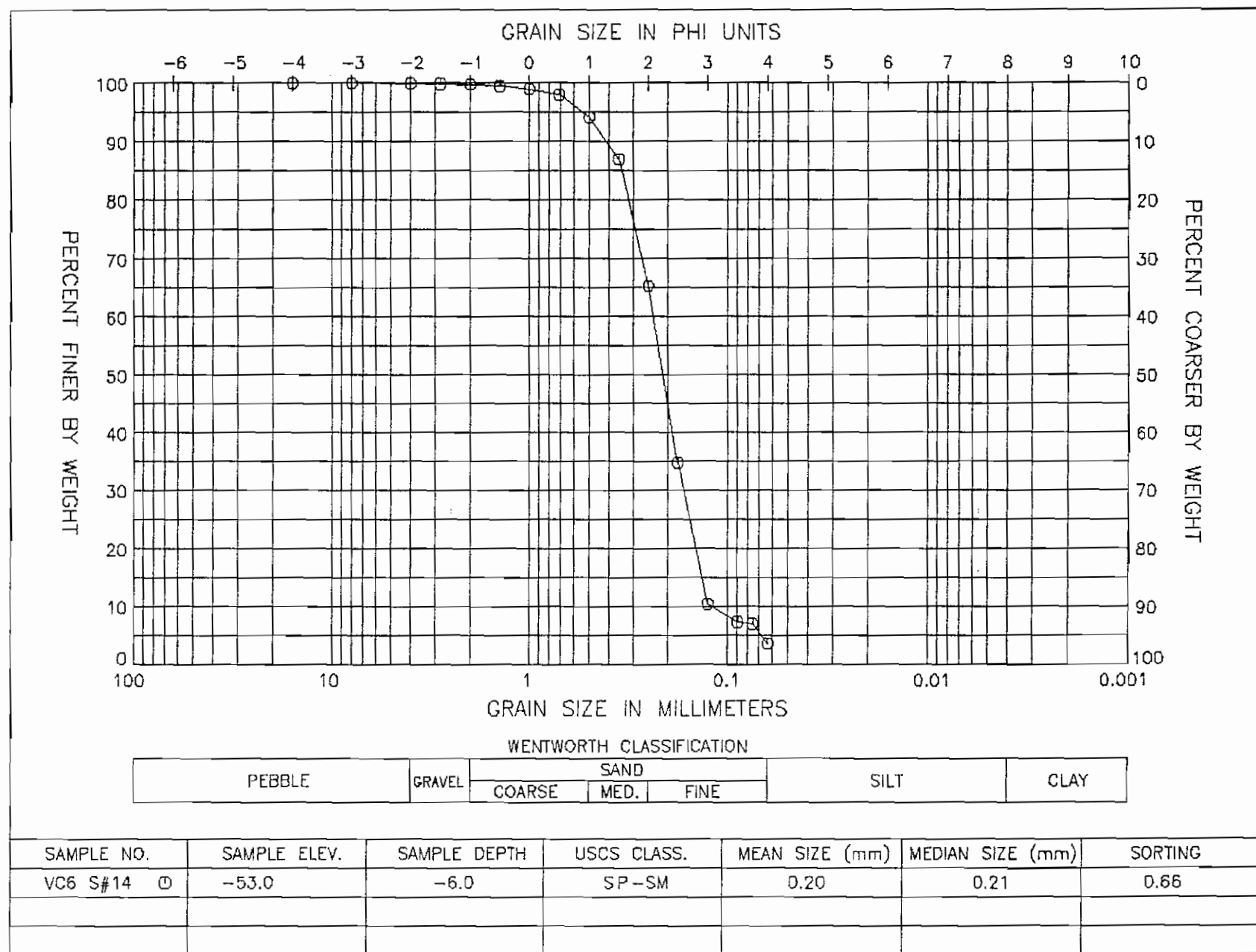
MEAN (PHI): 1.88 SORTING: .75  
MEAN (mm): .27

DATA FILE NAME: B:VC6S#16.TAB

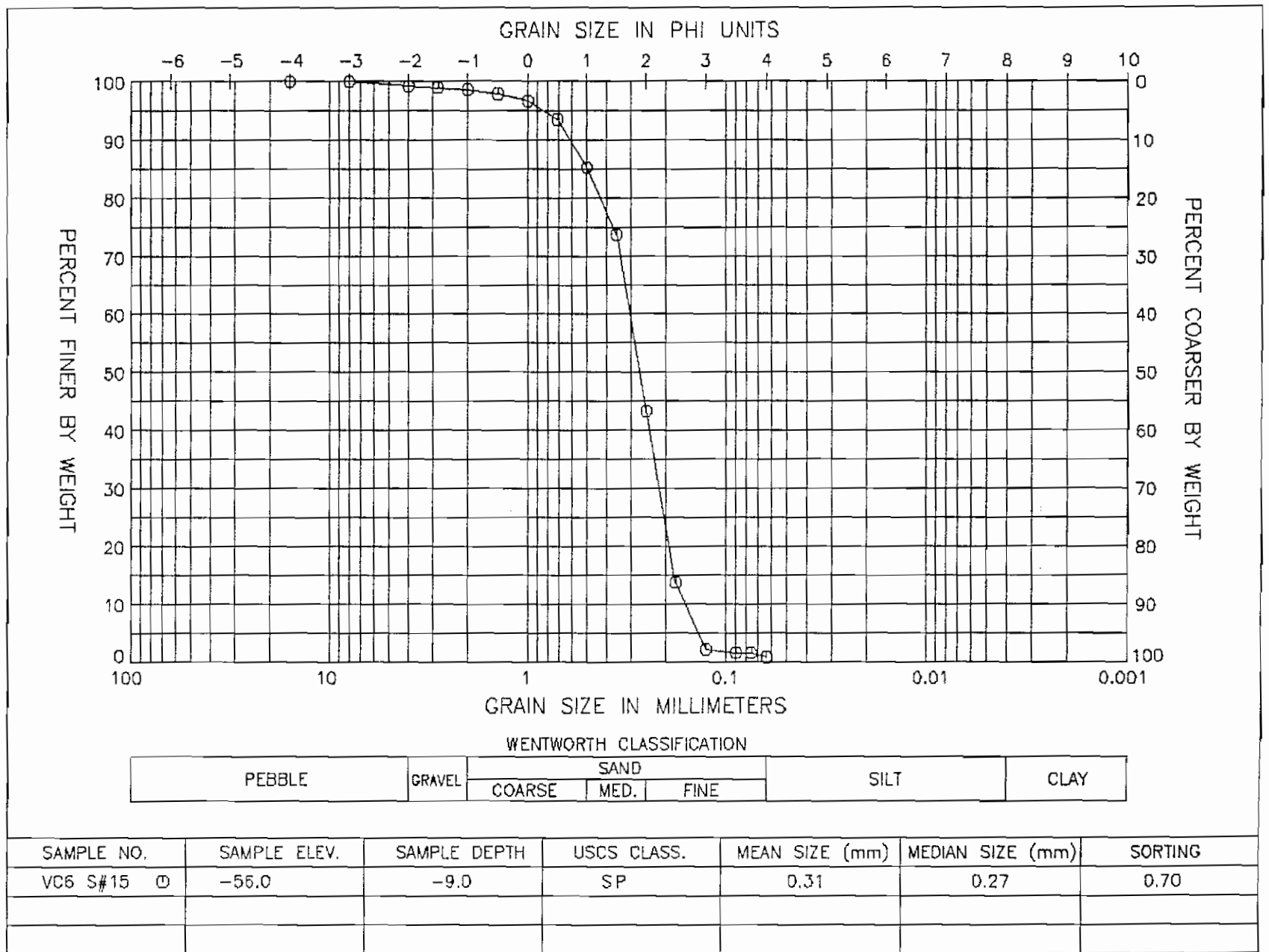
GRAIN SIZE DISTRIBUTION CURVE  
N. BOCA RATON BORROW AREA VC 9/84



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GRAIN SIZE DISTRIBUTION CURVE  
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