

VIBRACORE LOG							
PROJECT: NORTH BOCA RATON BORROW AREA (1984)				CORE NO: BR-9			
COORDINATES:		DATE: SEPT. 12, 1984		WATER DEPTH: 47.0 FL NGVD			
N = 740109		START TIME: 1600		DRILLER: EXMAR (W. BARTH)			
E = 807712		END TIME: 1617		CLIENT REP: R. SPADONI			
CORE DIAMETER:	2.5"	ELEV.	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS
LENGTH OF BARREL:	20.0'	47.0'	0.0				2.19 Phi 0.22 mm 4.7 % SILT
PENETRATION DEPTH:	16.0'						(SP)
LENGTH RECOVERED:	14.5'	48.7'				-21	<0.1 % SILT
PERCENT RECOVERED:	91 %					1.7	1.89 Phi 0.27 mm 2.2 % SILT
LENGTH RETAINED :	14.5'						(SP)
SUPPORT VESSEL: SEAWARD EXPLORER		51.5'				22	CUT
POSITIONING: TRISPOUNDER			5.0		GRAY, MEDIUM GRAIN SAND WITH SHELL HASH	4.5'	<0.1 % SILT CUT @ 4.5'
WEATHER:		53.5'				23	2.02 Phi 0.25 mm 2.0 % SILT
WIND:						6.5'	(SP)
DIR:							<0.1 % SILT
SPEED:							
WAVES							CUT
DIR:			10.0		GRAY, MEDIUM GRAIN SAND WITH SHELL HASH		
HEIGHT:							
ANALYSIS BY CPE 1994		59.5'				24	1.73 Phi 0.30 mm 4.3 % SILT
ANALYSIS BY UF 1984						12.5'	(SP)
ANALYSIS METHOD:							0.4 % SILT
VISUAL LOGGING					BROWN/GRAY, FINE GRAIN SAND WITH SHELL HASH		
MECHANICAL SIEVE			15.0				
SAND		63.0'	16.0				
SHELLS							
CORAL FRAG.							
SHELL HASH							
			20.0				

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
NOTE: UF 1984 COMPOSITE 0.31 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.: BR9 S#21
SAMPLE ELEV. (FT. NGVD): -48.7
SAMPLE DEPTH (FT.): -1.7
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 67.75
SAMPLE WEIGHT AFTER WASH (GRAMS): 64.77

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	.19	.28	99.72
10	-1.0	2.000	.58	.86	99.14
14	-0.5	1.400	1.18	1.74	98.26
18	0.0	1.000	1.82	2.69	97.31
25	0.5	.710	3.14	4.63	95.37
35	1.0	.500	5.81	8.58	91.42
45	1.5	.355	8.83	13.03	86.97
60	2.0	.250	19.23	28.38	71.62
80	2.5	.180	41.35	61.03	38.97
120	3.0	.125	60.18	88.83	11.17
170	3.5	.090	64.03	94.51	5.49
200	3.75	.075	64.54	95.26	4.74
230	4.0	.063	66.23	97.76	2.24
PAN			67.75	100.00	.00

PHI(5): .55	PHI(16): 1.60	PHI(25): 1.89
PHI(50): 2.33	PHI(75): 2.75	PHI(84): 2.91
PHI(95): 3.66		

SIEVE LOSS(g): .00	SILT/CLAY: 4.74%
SKEWNESS: -.453	KURTOSIS: 1.483

GRAPHIC METHOD

MEAN (PHI): 2.21	SORTING: .66
MEAN (mm): .22	MEDIAN (mm): .20
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD	

MOMENT METHOD

MEAN (PHI): 2.19	SORTING: .85
MEAN (mm): .22	

DATA FILE NAME: B:VC9S#21.TAB

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

SAMPLE NO.: BR9 S#22
SAMPLE ELEV. (FT. NGVD): -51.5
SAMPLE DEPTH (FT.): -4.5
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 71.91
SAMPLE WEIGHT AFTER WASH (GRAMS): 70.38

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	.34	.47	99.53
7	-1.5	2.800	.66	.92	99.08
10	-1.0	2.000	1.38	1.92	98.08
14	-0.5	1.400	2.33	3.24	96.76
18	0.0	1.000	3.32	4.62	95.38
25	0.5	.710	5.43	7.55	92.45
35	1.0	.500	10.29	14.31	85.69
45	1.5	.355	16.44	22.86	77.14
60	2.0	.250	31.88	44.33	55.67
80	2.5	.180	54.19	75.36	24.64
120	3.0	.125	68.40	95.12	4.88
170	3.5	.090	70.26	97.71	2.29
200	3.75	.075	70.32	97.79	2.21
230	4.0	.063	71.12	98.89	1.11
PAN			71.89	99.97	.03

PHI(5): .07 PHI(16): 1.10 PHI(25): 1.55
PHI(50): 2.09 PHI(75): 2.49 PHI(84): 2.72
PHI(95): 3.00

SIEVE LOSS(g): .02 SILT/CLAY: 2.21%
SKEWNESS: -1.120 KURTOSIS: 1.272

GRAPHIC METHOD

MEAN (PHI): 1.79 SORTING: .81
MEAN (mm): .29 MEDIAN (mm): .23
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.89 SORTING: .95
MEAN (mm): .27

DATA FILE NAME: B:VC9S#22.TAB

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

SAMPLE NO.: BR9 S#23
SAMPLE ELEV. (FT. NGVD): -53.5
SAMPLE DEPTH (FT.): -6.5
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 82.16
SAMPLE WEIGHT AFTER WASH (GRAMS): 80.60

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	.24	.29	99.71
7	-1.5	2.800	.33	.40	99.60
10	-1.0	2.000	.45	.55	99.45
14	-0.5	1.400	.71	.86	99.14
18	0.0	1.000	.99	1.20	98.80
25	0.5	.710	2.03	2.47	97.53
35	1.0	.500	6.17	7.51	92.49
45	1.5	.355	13.29	16.18	83.82
60	2.0	.250	34.46	41.94	58.06
80	2.5	.180	62.98	76.66	23.34
120	3.0	.125	78.70	95.79	4.21
170	3.5	.090	80.44	97.91	2.09
200	3.75	.075	80.50	97.98	2.02
230	4.0	.063	81.30	98.95	1.05
PAN			82.08	99.90	.10

PHI(5): .75 PHI(16): 1.49 PHI(25): 1.67
PHI(50): 2.12 PHI(75): 2.48 PHI(84): 2.69
PHI(95): 2.98

SIEVE LOSS(g): .08 SILT/CLAY: 2.02%
SKEWNESS: -.502 KURTOSIS: 1.135

GRAPHIC METHOD

MEAN (PHI): 2.01 SORTING: .60
MEAN (mm): .25 MEDIAN (mm): .23
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.02 SORTING: .72
MEAN (mm): .25

DATA FILE NAME: B:VC9S#23.TAB

GRADATION ANALYSIS REPORT

N. BOCA RATON BORROW AREA VC 9/84

TESTED BY: MDA ON: 09-02-94

SAMPLE NO.: BR9 S#24

SAMPLE ELEV. (FT. NGVD): -59.5

SAMPLE DEPTH (FT.): -12.5

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 81.99

SAMPLE WEIGHT AFTER WASH (GRAMS): 78.27

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	.40	.49	99.51
7	-1.5	2.800	.62	.76	99.24
10	-1.0	2.000	.91	1.11	98.89
14	-0.5	1.400	1.56	1.90	98.10
18	0.0	1.000	2.39	2.91	97.09
25	0.5	.710	4.74	5.78	94.22
35	1.0	.500	13.18	16.08	83.92
45	1.5	.355	26.29	32.06	67.94
60	2.0	.250	50.88	62.06	37.94
80	2.5	.180	68.54	83.60	16.40
120	3.0	.125	75.76	92.40	7.60
170	3.5	.090	77.66	94.72	5.28
200	3.75	.075	78.05	95.19	4.81
230	4.0	.063	80.03	97.61	2.39
PAN			81.92	99.91	.09

PHI(5): .36

PHI(16): 1.00

PHI(25): 1.28

PHI(50): 1.80

PHI(75): 2.30

PHI(84): 2.52

PHI(95): 3.65

SIEVE LOSS(g): .07

SILT/CLAY: 4.81%

SKEWNESS: .413

KURTOSIS: 1.318

GRAPHIC METHOD

MEAN (PHI): 1.87

SORTING: .76

MEAN (mm): .27

MEDIAN (mm): .29

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

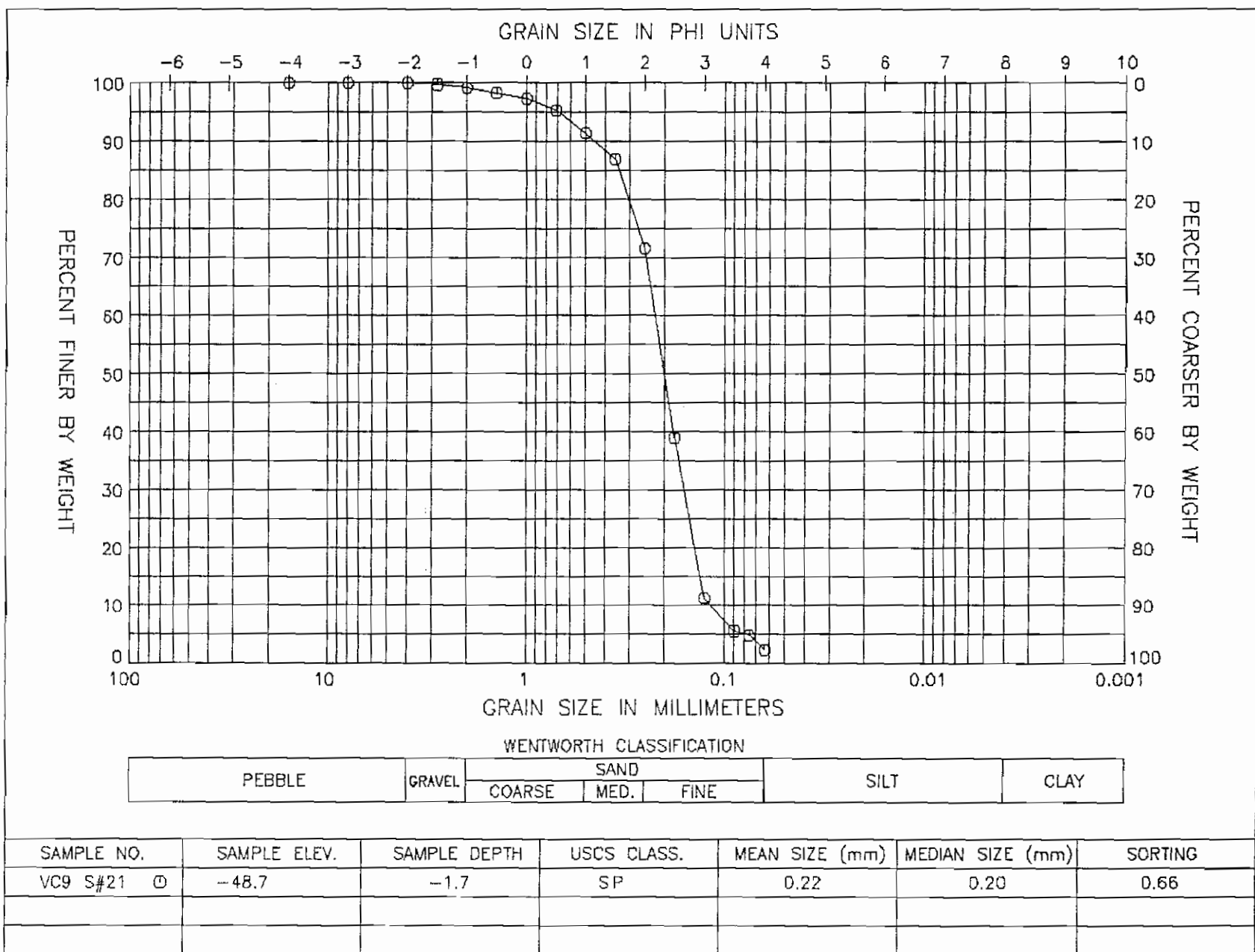
MEAN (PHI): 1.73

SORTING: .89

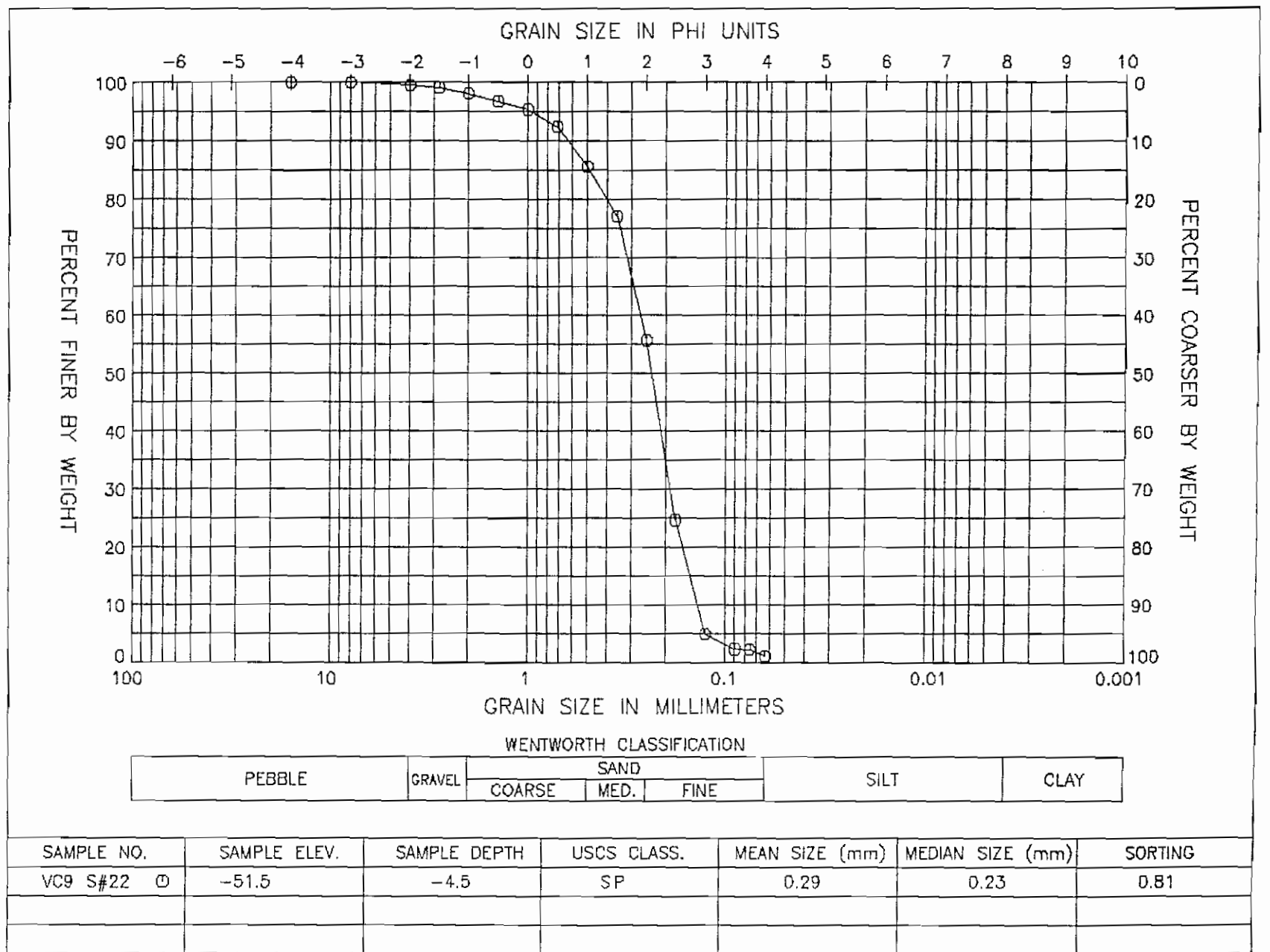
MEAN (mm): .30

DATA FILE NAME: B:VC9S#24.TAB

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



GRAIN SIZE DISTRIBUTION CURVE
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