

GRADATION ANALYSIS REPORT  
 TOWN OF PALM BEACH  
 TESTED BY: RW ON: 7-1-99

SAMPLE NO.: VC99-44 #1  
 SAMPLE ELEV. (FT. NGVD): -39.0  
 SAMPLE DEPTH (FT.): 4.0  
 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 193.38  
 SAMPLE WEIGHT AFTER WASH (GRAMS): 188.78

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.00	16.000	0.00	0.00	100.00
5/16	-3.00	8.000	0.00	0.00	100.00
5	-2.00	4.000	0.39	0.20	99.80
7	-1.50	2.800	0.65	0.34	99.66
10	-1.00	2.000	1.06	0.55	99.45
14	-0.50	1.400	1.82	0.94	99.06
18	0.00	1.000	2.68	1.39	98.61
25	0.50	0.710	3.75	1.94	98.06
35	1.00	0.500	5.52	2.85	97.15
45	1.50	0.355	8.12	4.20	95.80
60	2.00	0.250	13.69	7.08	92.92
80	2.50	0.180	34.98	18.09	81.91
120	3.00	0.125	131.75	68.13	31.87
170	3.50	0.090	186.67	96.53	3.47
200	3.75	0.075	188.47	97.46	2.54
230	4.00	0.063	191.01	98.77	1.23
PAN			193.36	99.99	0.01

PHI (5): 1.64                      PHI (16): 2.41                      PHI (25): 2.57  
 PHI (50): 2.82                      PHI (75): 3.12                      PHI (84): 3.28  
 PHI (95): 3.47

SIEVE LOSS (g): 0.02                      SILT/CLAY: 2.54%  
 SKEWNESS: -0.601                      KURTOSIS: 1.362

GRAPHIC METHOD

MEAN (PHI): 2.72                      SORTING: 0.44  
 MEAN (mm): 0.15                      MEDIAN (mm): 0.14

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.73                      SORTING: 0.68  
 MEAN (mm): 0.15

DATA FILE NAME: VC99-44#1.TAB

GRADATION ANALYSIS REPORT  
TOWN OF PALM BEACH  
TESTED BY: RW ON: 7-1-99

SAMPLE NO.: VC99-44 #2  
SAMPLE ELEV. (FT. NGVD): -44.0  
SAMPLE DEPTH (FT.): 9.0  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 218.11  
SAMPLE WEIGHT AFTER WASH (GRAMS): 213.93

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.00	16.000	0.00	0.00	100.00
5/16	-3.00	8.000	0.00	0.00	100.00
5	-2.00	4.000	0.18	0.08	99.92
7	-1.50	2.800	0.38	0.17	99.83
10	-1.00	2.000	0.83	0.38	99.62
14	-0.50	1.400	1.40	0.64	99.36
18	0.00	1.000	2.04	0.94	99.06
25	0.50	0.710	2.99	1.37	98.63
35	1.00	0.500	4.64	2.13	97.87
45	1.50	0.355	7.59	3.48	96.52
60	2.00	0.250	15.38	7.05	92.95
80	2.50	0.180	42.99	19.71	80.29
120	3.00	0.125	156.92	71.95	28.05
170	3.50	0.090	212.50	97.43	2.57
200	3.75	0.075	213.72	97.99	2.01
230	4.00	0.063	216.00	99.03	0.97
PAN			218.11	100.00	0.00

PHI (5): 1.71                      PHI (16): 2.35                      PHI (25): 2.55  
PHI (50): 2.79                      PHI (75): 3.06                      PHI (84): 3.24  
PHI (95): 3.45

SIEVE LOSS(g): 0.00                      SILT/CLAY: 2.01%  
SKEWNESS: -0.470                      KURTOSIS: 1.400

GRAPHIC METHOD

MEAN (PHI): 2.71                      SORTING: 0.44  
MEAN (mm): 0.15                      MEDIAN (mm): 0.14  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.71                      SORTING: 0.61  
MEAN (mm): 0.15

DATA FILE NAME: VC99-44#2.TAB

GRADATION ANALYSIS REPORT

TOWN OF PALM BEACH

TESTED BY: RW ON: 7-1-99

SAMPLE NO.: VC99-44 #3  
 SAMPLE ELEV. (FT. NGVD): -13.9  
 SAMPLE DEPTH (FT.): 13.9  
 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 220.72  
 SAMPLE WEIGHT AFTER WASH (GRAMS): 214.58

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.00	16.000	0.00	0.00	100.00
5/16	-3.00	8.000	4.19	1.90	98.10
5	-2.00	4.000	7.08	3.21	96.79
7	-1.50	2.800	10.22	4.63	95.37
10	-1.00	2.000	16.52	7.48	92.52
14	-0.50	1.400	26.96	12.21	87.79
18	0.00	1.000	37.23	16.87	83.13
25	0.50	0.710	48.38	21.92	78.08
35	1.00	0.500	63.18	28.62	71.38
45	1.50	0.355	76.33	34.58	65.42
60	2.00	0.250	91.74	41.56	58.44
80	2.50	0.180	113.38	51.37	48.63
120	3.00	0.125	170.87	77.41	22.59
170	3.50	0.090	192.01	86.99	13.01
200	3.75	0.075	214.27	97.08	2.92
230	4.00	0.063	217.43	98.51	1.49
PAN			220.72	100.00	0.00

PHI (5): -1.44                      PHI (16): -0.09                      PHI (25): 0.73  
 PHI (50): 2.43                      PHI (75): 2.95                      PHI (84): 3.34  
 PHI (95): 3.70

SIEVE LOSS (g): 0.00                      SILT/CLAY: 2.92%  
 SKEWNESS: -0.756                      KURTOSIS: 0.946

GRAPHIC METHOD

MEAN (PHI): 1.59                      SORTING: 1.72  
 MEAN (mm): 0.33                      MEDIAN (mm): 0.19  
 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.75                      SORTING: 1.68  
 MEAN (mm): 0.30

DATA FILE NAME: VC99-44#3.TAB

GRADATION ANALYSIS REPORT  
 TOWN OF PALM BEACH  
 TESTED BY: RW            ON: 7-1-99

SAMPLE NO.: VC99-44 #4  
 SAMPLE ELEV. (FT. NGVD): -52.0  
 SAMPLE DEPTH (FT.): 17.0  
 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 188.03  
 SAMPLE WEIGHT AFTER WASH (GRAMS): 183.52

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.00	16.000	0.00	0.00	100.00
5/16	-3.00	8.000	0.00	0.00	100.00
5	-2.00	4.000	0.08	0.04	99.96
7	-1.50	2.800	0.16	0.09	99.91
10	-1.00	2.000	0.20	0.11	99.89
14	-0.50	1.400	0.37	0.20	99.80
18	0.00	1.000	0.58	0.31	99.69
25	0.50	0.710	0.85	0.45	99.55
35	1.00	0.500	1.43	0.76	99.24
45	1.50	0.355	2.72	1.45	98.55
60	2.00	0.250	6.91	3.67	96.33
80	2.50	0.180	24.76	13.17	86.83
120	3.00	0.125	114.15	60.71	39.29
170	3.50	0.090	181.98	96.78	3.22
200	3.75	0.075	183.21	97.44	2.56
230	4.00	0.063	185.71	98.76	1.24
PAN			188.02	99.99	0.01

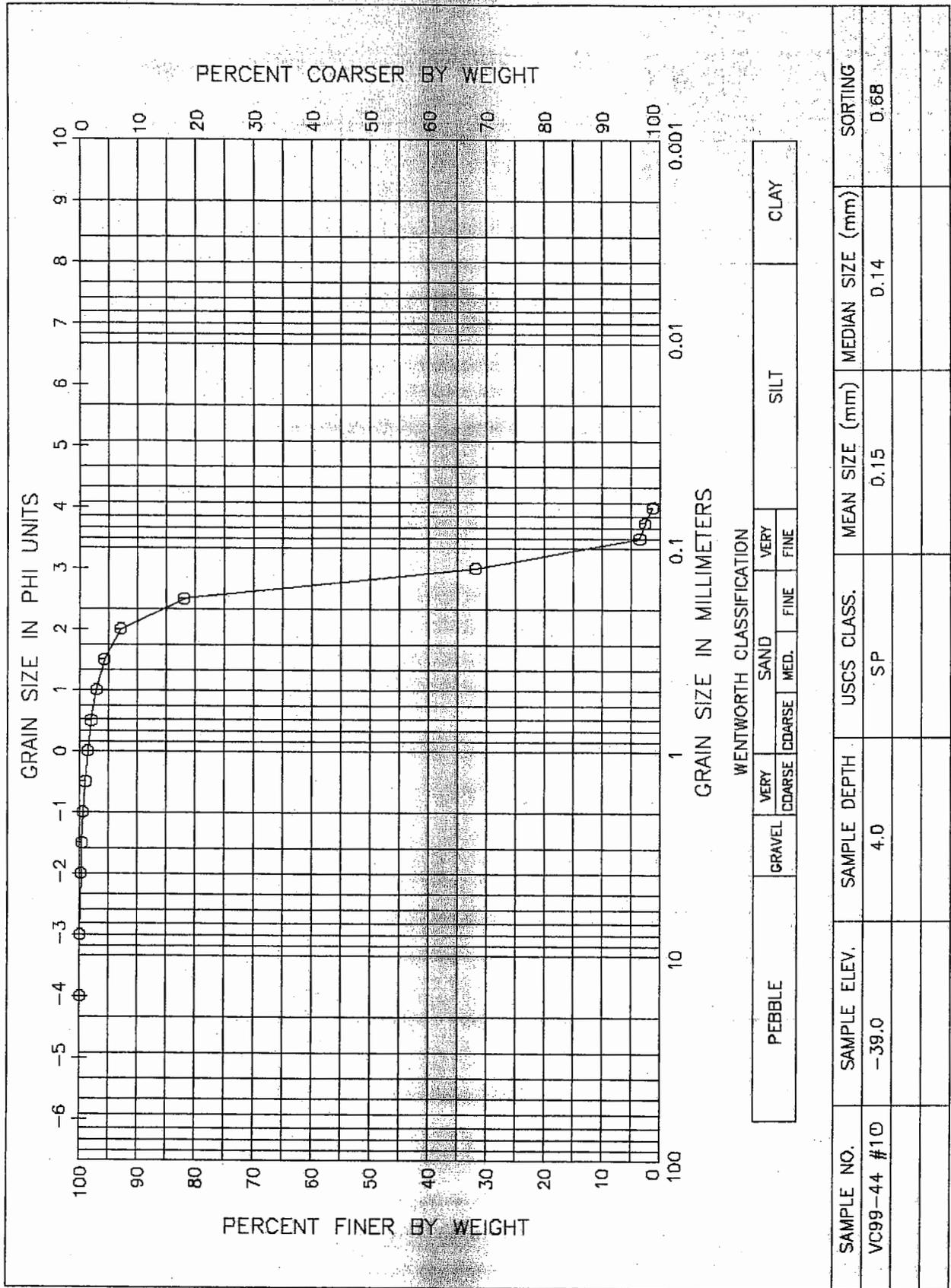
PHI (5): 2.07                    PHI (16): 2.53                    PHI (25): 2.62  
 PHI (50): 2.89                    PHI (75): 3.20                    PHI (84): 3.32  
 PHI (95): 3.48

SIEVE LOSS (g): 0.01                    SILT/CLAY: 2.56%  
 SKEWNESS: -0.290                    KURTOSIS: 1.004

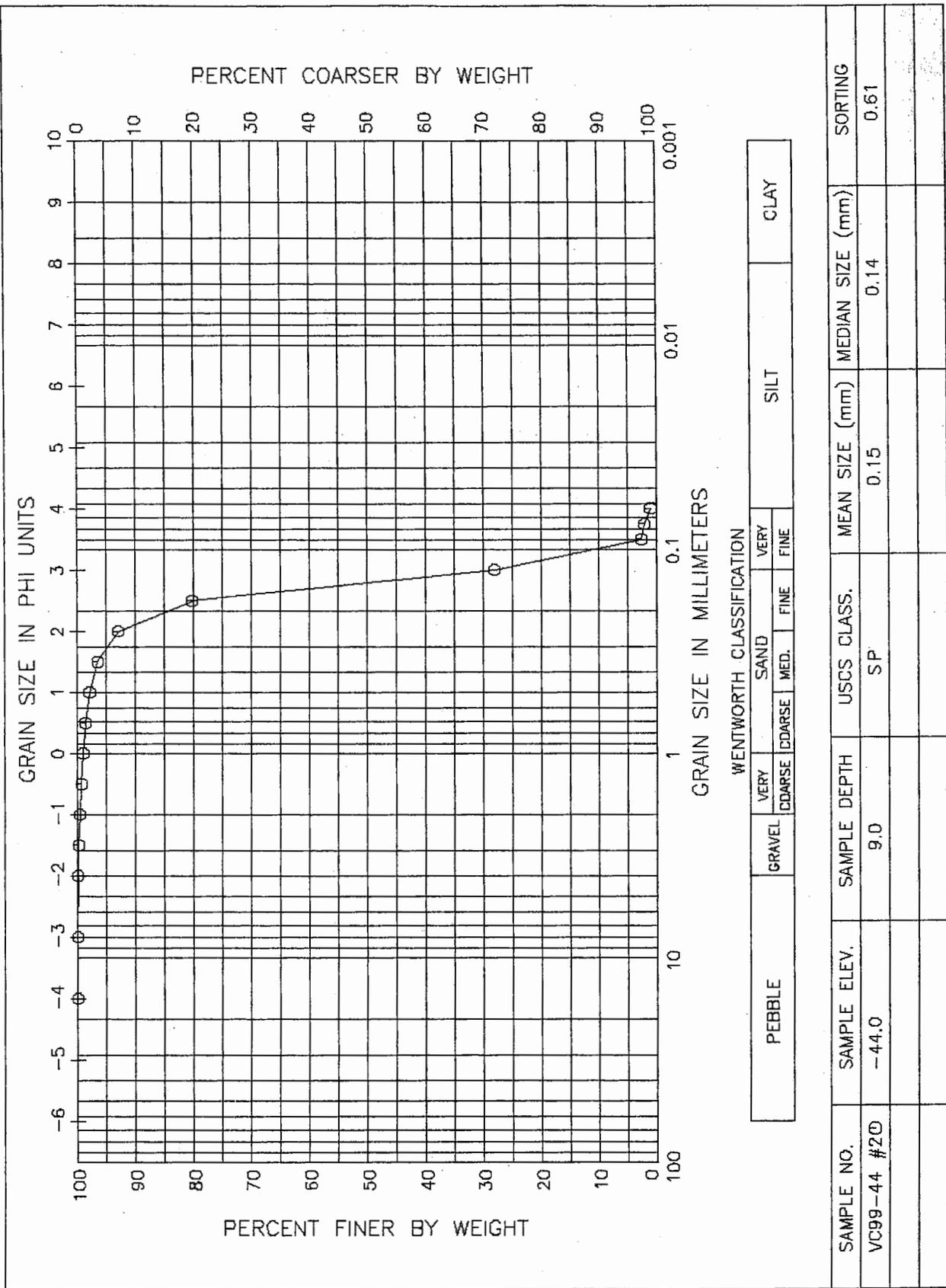
GRAPHIC METHOD  
 MEAN (PHI): 2.86                    SORTING: 0.40  
 MEAN (mm) : 0.14                    MEDIAN (mm): 0.14  
 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD  
 MEAN (PHI): 2.85                    SORTING: 0.48  
 MEAN (mm) : 0.14

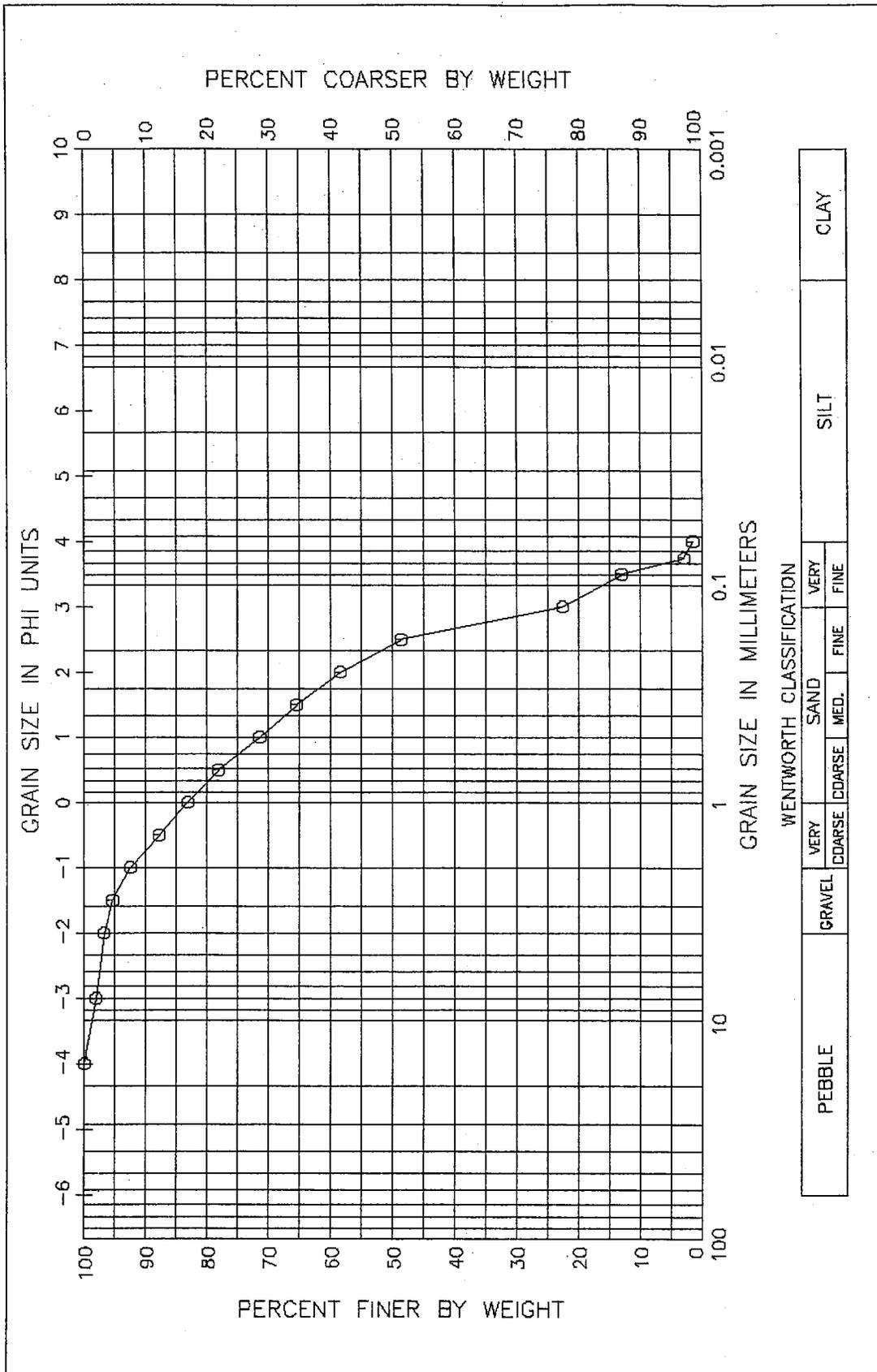
DATA FILE NAME: VC99-44#4.TAB



GRAIN SIZE DISTRIBUTION CURVE  
TOWN OF PALM BEACH

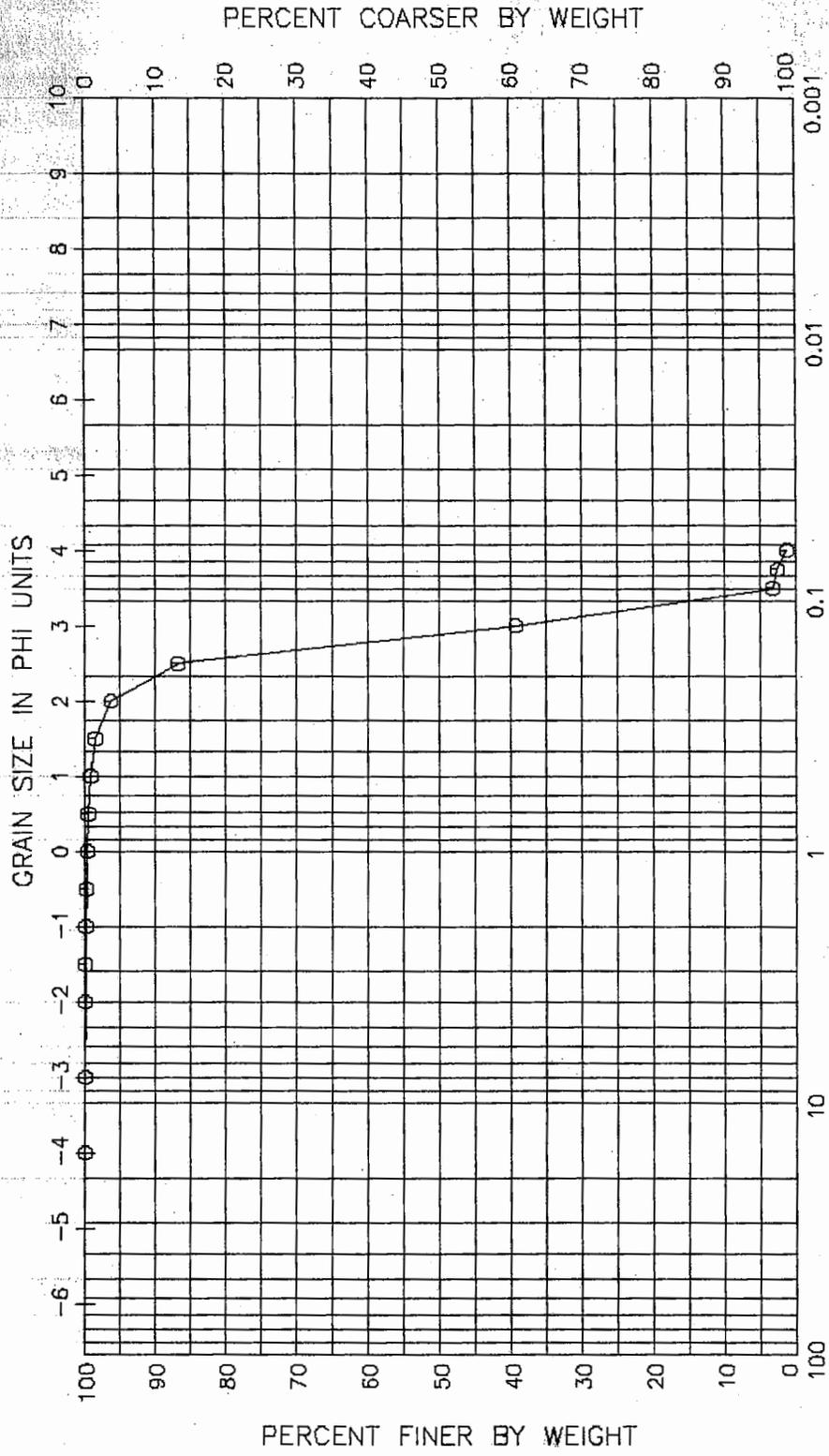


GRAIN SIZE DISTRIBUTION CURVE  
TOWN OF PALM BEACH



SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
VC99-44 #30	-48.9	13.9	SP	0.30	0.19	1.68

GRAIN SIZE DISTRIBUTION CURVE  
TOWN OF PALM BEACH



WENTWORTH CLASSIFICATION

PEBBLE	GRAVEL	SAND			SILT		CLAY
		VERY COARSE	COARSE	MED.	FINE	VERY FINE	

SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
VC99-44 #40	-52.0	17.0	SP	0.14	0.14	0.4B

GRAIN SIZE DISTRIBUTION CURVE  
TOWN OF PALM BEACH