

GRADATION ANALYSIS REPORT  
 TOWN OF PALM BEACH  
 TESTED BY: RW ON: 5/22/99

SAMPLE NO.: VC99-20 #1  
 SAMPLE ELEV. (FT. NGVD): 36.3  
 SAMPLE DEPTH (FT.): 1.7  
 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 168.85  
 SAMPLE WEIGHT AFTER WASH (GRAMS): 167.41

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	1.29	0.76	99.24
7	-1.50	2.800	3.21	1.90	98.10
10	-1.00	2.000	6.59	3.90	96.10
14	-0.50	1.400	12.59	7.46	92.54
18	0.00	1.000	20.01	11.85	88.15
25	0.50	0.710	31.75	18.80	81.20
35	1.00	0.500	49.36	29.23	70.77
45	1.50	0.355	66.05	39.12	60.88
60	2.00	0.250	86.89	51.46	48.54
80	2.50	0.180	104.76	62.04	37.96
120	3.00	0.125	139.86	82.83	17.17
170	3.50	0.090	166.69	98.72	1.28
200	3.75	0.075	167.26	99.06	0.94
230	4.00	0.063	168.08	99.54	0.46
PAN			168.84	99.99	0.01

PHI (5): -0.85      PHI (16): 0.30      PHI (25): 0.80  
 PHI (50): 1.94      PHI (75): 2.81      PHI (84): 3.04  
 PHI (95): 3.38

SIEVE LOSS (g): 0.01      SILT/CLAY: 0.94%  
 SKEWNESS: -0.491      KURTOSIS: 0.860

GRAPHIC METHOD

MEAN (PHI): 1.56      SORTING: 1.37  
 MEAN (mm): 0.34      MEDIAN (mm): 0.26

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.70      SORTING: 1.33  
 MEAN (mm): 0.31

DATA FILE NAME: VC99-20#1.TAB

GRADATION ANALYSIS REPORT  
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SAMPLE NO.: VC99-20 #2  
 SAMPLE ELEV. (FT. NGVD): -38.2  
 SAMPLE DEPTH (FT.): 3.60  
 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 180.99  
 SAMPLE WEIGHT AFTER WASH (GRAMS): 179.06

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	0.09	0.05	99.95
7	-1.50	2.800	0.15	0.08	99.92
10	-1.00	2.000	0.35	0.19	99.81
14	-0.50	1.400	0.78	0.43	99.57
18	0.00	1.000	1.24	0.69	99.31
25	0.50	0.710	2.39	1.32	98.68
35	1.00	0.500	5.23	2.89	97.11
45	1.50	0.355	10.38	5.74	94.26
60	2.00	0.250	23.37	12.91	87.09
80	2.50	0.180	49.35	27.27	72.73
120	3.00	0.125	120.18	66.40	33.60
170	3.50	0.090	177.06	97.83	2.17
200	3.75	0.075	178.73	98.75	1.25
230	4.00	0.063	179.96	99.43	0.57
PAN			180.99	100.00	0.00

PHI (5): 1.37                      PHI (16): 2.11                      PHI (25): 2.42  
 PHI (50): 2.79                      PHI (75): 3.14                      PHI (84): 3.28  
 PHI (95): 3.45

SIEVE LOSS (g): 0.00                      SILT/CLAY: 1.25%  
 SKEWNESS: -0.644                      KURTOSIS: 1.193

GRAPHIC METHOD  
 MEAN (PHI): 2.60                      SORTING: 0.59  
 MEAN (mm): 0.16                      MEDIAN (mm): 0.14  
 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD  
 MEAN (PHI): 2.66                      SORTING: 0.67  
 MEAN (mm): 0.16

DATA FILE NAME: VC99-20#2.TAB

GRADATION ANALYSIS REPORT  
TOWN OF PALM BEACH  
TESTED BY: RW ON: 5/22/99

SAMPLE NO.: VC99-20 #3  
SAMPLE ELEV. (FT. NGVD): -41.9  
SAMPLE DEPTH (FT.): 7.3  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 151.19  
SAMPLE WEIGHT AFTER WASH (GRAMS): 149.53

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	0.44	0.29	99.71
5	-2.00	4.000	0.68	0.45	99.55
7	-1.50	2.800	1.20	0.79	99.21
10	-1.00	2.000	1.91	1.26	98.74
14	-0.50	1.400	2.96	1.96	98.04
18	0.00	1.000	3.98	2.63	97.37
25	0.50	0.710	6.01	3.98	96.02
35	1.00	0.500	10.00	6.61	93.39
45	1.50	0.355	15.53	10.27	89.73
60	2.00	0.250	28.42	18.80	81.20
80	2.50	0.180	51.71	34.20	65.80
120	3.00	0.125	119.76	79.21	20.79
170	3.50	0.090	148.61	98.29	1.71
200	3.75	0.075	149.33	98.77	1.23
230	4.00	0.063	150.27	99.39	0.61
PAN			151.17	99.99	0.01

PHI (5): 0.69                      PHI (16): 1.84                      PHI (25): 2.20  
PHI (50): 2.68                      PHI (75): 2.95                      PHI (84): 3.13  
PHI (95): 3.41

SIEVE LOSS (g): 0.02                      SILT/CLAY: 1.23%  
SKEWNESS: -0.964                      KURTOSIS: 1.482

GRAPHIC METHOD

MEAN (PHI): 2.35                      SORTING: 0.64  
MEAN (mm): 0.20                      MEDIAN (mm): 0.16  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.45                      SORTING: 0.90  
MEAN (mm): 0.18

DATA FILE NAME: VC99-20#3.TAB

GRADATION ANALYSIS REPORT  
TOWN OF PALM BEACH  
TESTED BY: RW            ON: 5/22/99

SAMPLE NO.: VC99 20#4  
SAMPLE ELEV. (FT. NGVD): -45.6  
SAMPLE DEPTH (FT.): 11.0  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 196.35  
SAMPLE WEIGHT AFTER WASH (GRAMS): 193.90

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	0.21	0.11	99.89
7	-1.50	2.800	0.34	0.17	99.83
10	-1.00	2.000	0.68	0.35	99.65
14	-0.50	1.400	1.03	0.52	99.48
18	0.00	1.000	1.56	0.79	99.21
25	0.50	0.710	2.96	1.51	98.49
35	1.00	0.500	6.66	3.39	96.61
45	1.50	0.355	12.60	6.42	93.58
60	2.00	0.250	25.39	12.93	87.07
80	2.50	0.180	51.45	26.20	73.80
120	3.00	0.125	138.91	70.75	29.25
170	3.50	0.090	192.44	98.01	1.99
200	3.75	0.075	193.53	98.56	1.44
230	4.00	0.063	195.00	99.31	0.69
PAN			196.32	99.98	0.02

PHI(5): 1.27            PHI(16): 2.12            PHI(25): 2.45  
PHI(50): 2.77            PHI(75): 3.08            PHI(84): 3.24  
PHI(95): 3.44

SIEVE LOSS(g): 0.03            SILT/CLAY: 1.44%  
SKEWNESS: -0.731            KURTOSIS: 1.433

GRAPHIC METHOD

MEAN (PHI): 2.57            SORTING: 0.56  
MEAN (mm) : 0.17            MEDIAN (mm): 0.15  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.64            SORTING: 0.69  
MEAN (mm) : 0.16

DATA FILE NAME: VC99-20#4.TAB

GRADATION ANALYSIS REPORT  
TOWN OF PALM BEACH  
TESTED BY: RW ON: 5/22/99

SAMPLE NO.: VC99 20#5  
SAMPLE ELEV. (FT. NGVD): -47.7  
SAMPLE DEPTH (FT.): 13.1  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 203.62  
SAMPLE WEIGHT AFTER WASH (GRAMS): 200.72

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	9.80	4.81	95.19
5	-2.00	4.000	21.75	10.68	89.32
7	-1.50	2.800	27.60	13.55	86.45
10	-1.00	2.000	34.20	16.80	83.20
14	-0.50	1.400	44.08	21.65	78.35
18	0.00	1.000	61.78	30.34	69.66
25	0.50	0.710	64.72	31.78	68.22
35	1.00	0.500	78.52	38.56	61.44
45	1.50	0.355	89.92	44.16	55.84
60	2.00	0.250	111.34	54.68	45.32
80	2.50	0.180	132.95	65.29	34.71
120	3.00	0.125	173.60	85.26	14.74
170	3.50	0.090	199.52	97.99	2.01
200	3.75	0.075	200.32	98.38	1.62
230	4.00	0.063	201.97	99.19	0.81
PAN			203.61	100.00	0.00

PHI (5): -2.97                      PHI (16): -1.12                      PHI (25): -0.31  
PHI (50): 1.78                      PHI (75): 2.74                      PHI (84): 2.97  
PHI (95): 3.38

SIEVE LOSS (g): 0.01                      SILT/CLAY: 1.62%  
SKEWNESS: -0.768                      KURTOSIS: 0.853

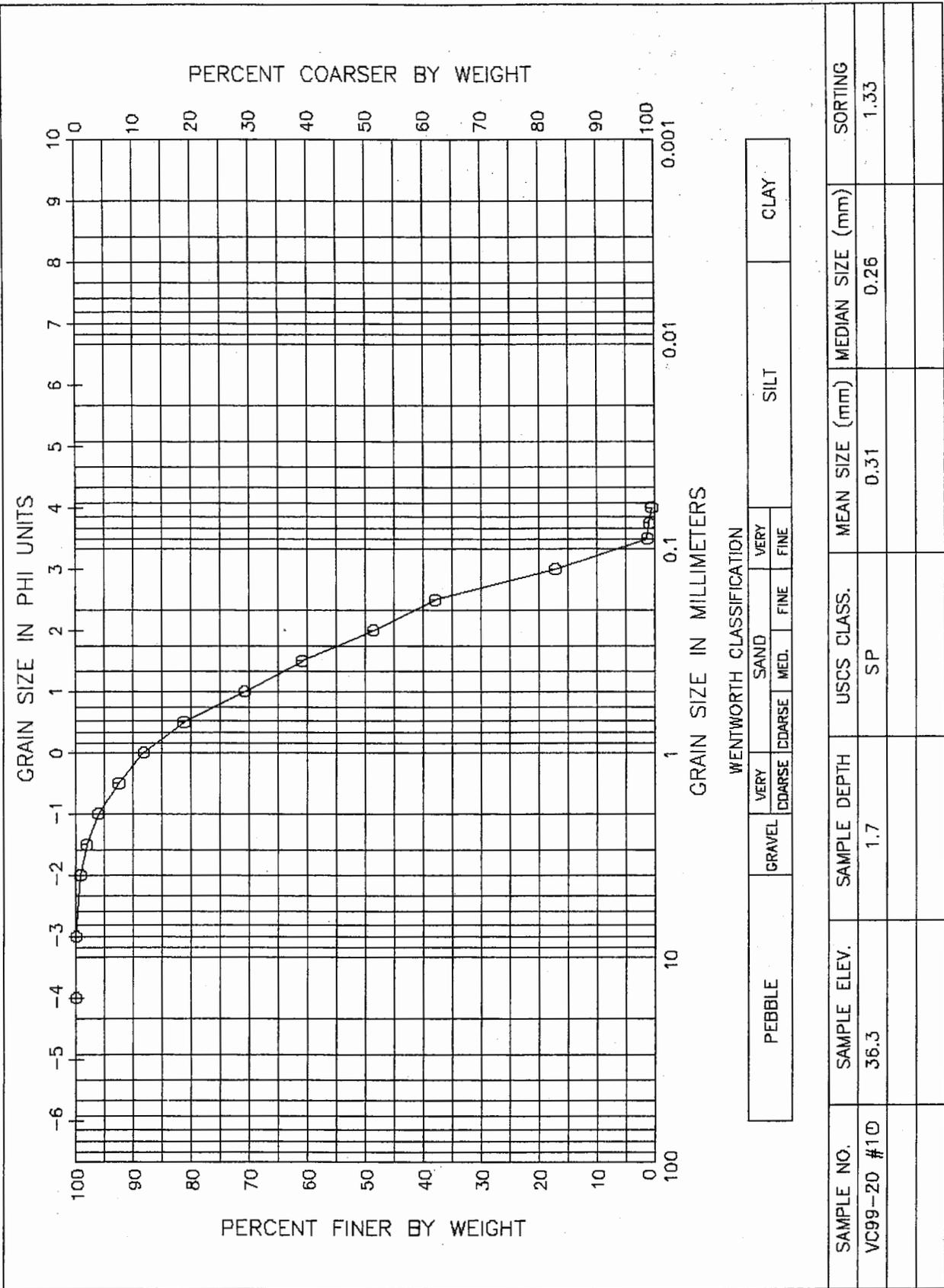
GRAPHIC METHOD

MEAN (PHI): 0.81                      SORTING: 2.05  
MEAN (mm): 0.57                      MEDIAN (mm): 0.29  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

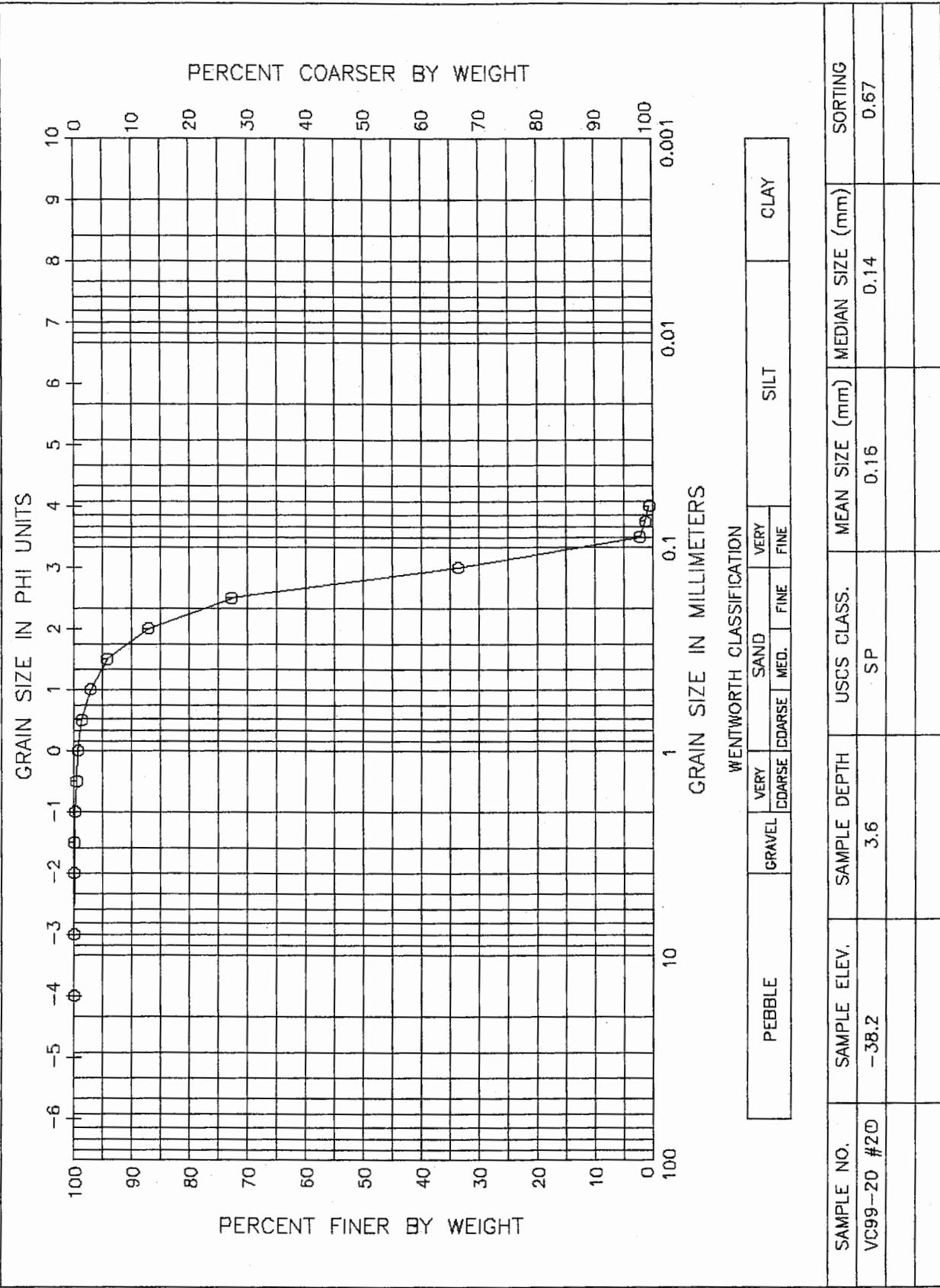
MOMENT METHOD

MEAN (PHI): 1.10                      SORTING: 1.99  
MEAN (mm): 0.47

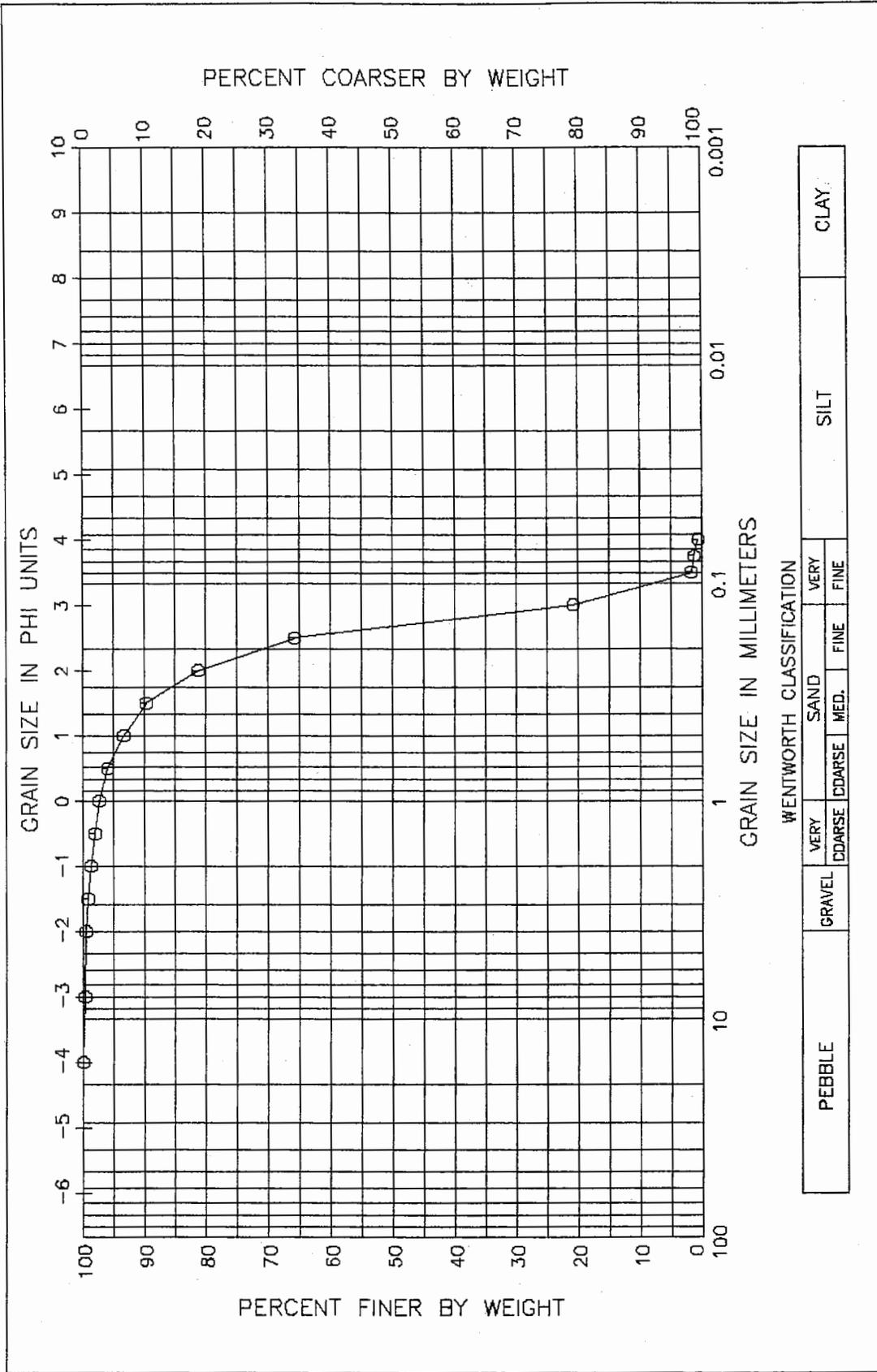
DATA FILE NAME: VC99-20#5.TAB



GRAIN SIZE DISTRIBUTION CURVE  
TOWN OF PALM BEACH

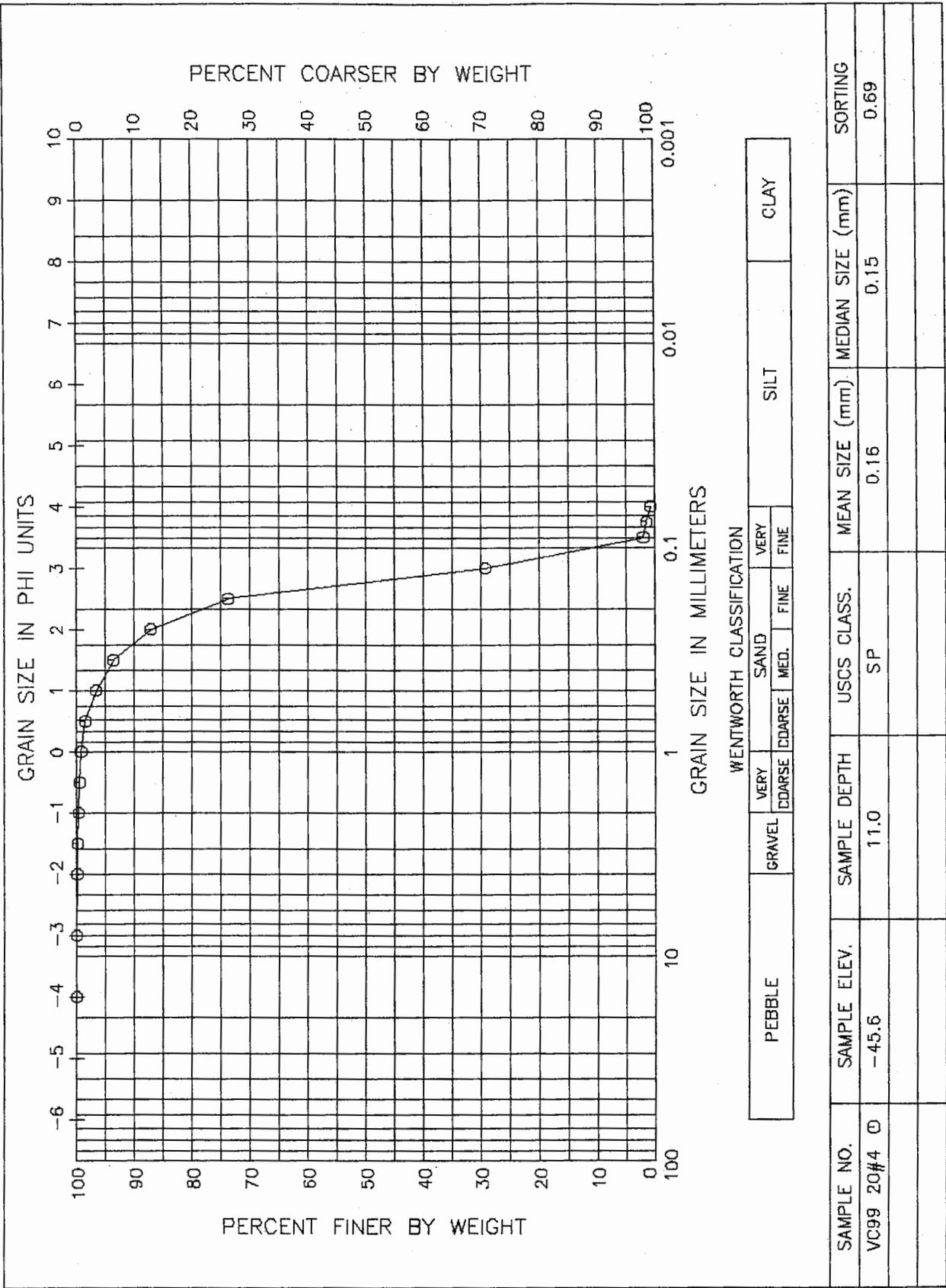


GRAIN SIZE DISTRIBUTION CURVE  
TOWN OF PALM BEACH

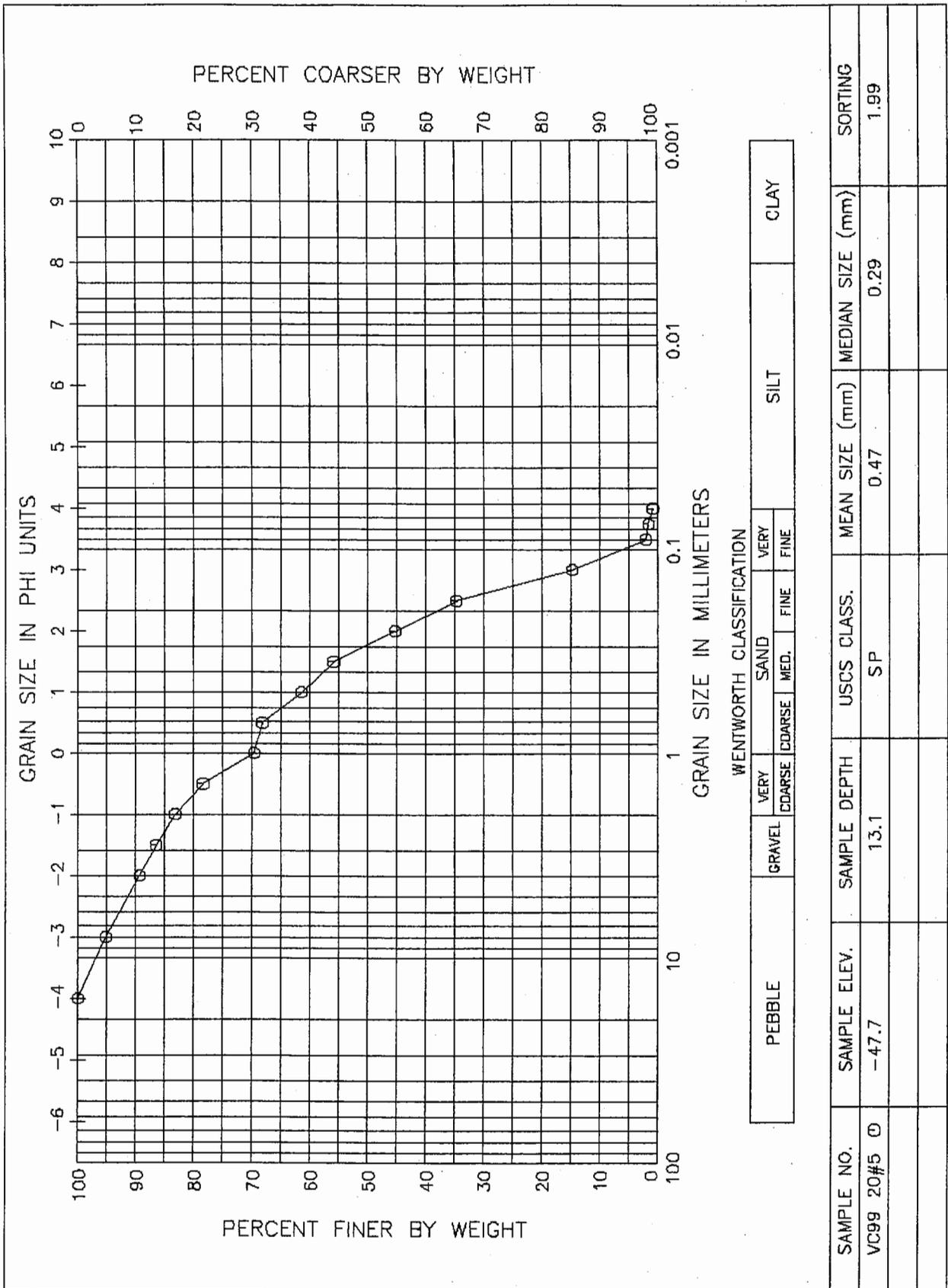


SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
VC99-20 #30	-41.9	7.3	SP	0.18	0.16	0.90

GRAIN SIZE DISTRIBUTION CURVE  
TOWN OF PALM BEACH



GRAIN SIZE DISTRIBUTION CURVE  
TOWN OF PALM BEACH



GRAIN SIZE DISTRIBUTION CURVE  
TOWN OF PALM BEACH