

GRADATION ANALYSIS REPORT  
 TOWN OF PALM BEACH  
 TESTED BY: RW ON: 6/7/1999

SAMPLE NO.: VC99 30#1  
 SAMPLE ELEV. (FT. NGVD): -40.2  
 SAMPLE DEPTH (FT.): 2.0  
 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 188.37  
 SAMPLE WEIGHT AFTER WASH (GRAMS): 185.81

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	2.27	1.21	98.79
5	-2.00	4.000	4.05	2.15	97.85
7	-1.50	2.800	4.91	2.61	97.39
10	-1.00	2.000	6.32	3.36	96.64
14	-0.50	1.400	7.71	4.09	95.91
18	0.00	1.000	9.06	4.81	95.19
25	0.50	0.710	10.69	5.68	94.32
35	1.00	0.500	13.06	6.93	93.07
45	1.50	0.355	16.01	8.50	91.50
60	2.00	0.250	22.52	11.96	88.04
80	2.50	0.180	42.88	22.76	77.24
120	3.00	0.125	129.67	68.84	31.16
170	3.50	0.090	184.60	98.00	2.00
200	3.75	0.075	185.76	98.61	1.39
230	4.00	0.063	187.07	99.31	0.69
PAN			188.37	100.00	0.00

PHI (5): 0.11                      PHI (16): 2.19                      PHI (25): 2.52  
 PHI (50): 2.80                      PHI (75): 3.11                      PHI (84): 3.26  
 PHI (95): 3.45

SIEVE LOSS (g): 0.00                      SILT/CLAY: 1.39%  
 SKEWNESS: -1.895                      KURTOSIS: 2.353

GRAPHIC METHOD

MEAN (PHI): 2.36                      SORTING: 0.54  
 MEAN (mm): 0.19                      MEDIAN (mm): 0.14  
 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.53                      SORTING: 1.16  
 MEAN (mm): 0.17

DATA FILE NAME: VC99-30#1.TAB

GRADATION ANALYSIS REPORT  
TOWN OF PALM BEACH  
TESTED BY: RW            ON: 6/7/1999

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SAMPLE NO.: VC99 30#2  
SAMPLE ELEV. (FT. NGVD): -42.2  
SAMPLE DEPTH (FT.): 4.0  
SAMPLE TYPE: CORE SAMPLE  
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USCS DESCRIPTION: SP  
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DRY SAMPLE WEIGHT (GRAMS): 220.97  
SAMPLE WEIGHT AFTER WASH (GRAMS): 215.49  
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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	0.04	0.02	99.98
7	-1.50	2.800	0.31	0.14	99.86
10	-1.00	2.000	0.45	0.20	99.80
14	-0.50	1.400	0.77	0.35	99.65
18	0.00	1.000	1.22	0.55	99.45
25	0.50	0.710	1.90	0.86	99.14
35	1.00	0.500	3.40	1.54	98.46
45	1.50	0.355	6.00	2.72	97.28
60	2.00	0.250	13.91	6.29	93.71
80	2.50	0.180	41.48	18.77	81.23
120	3.00	0.125	155.81	70.51	29.49
170	3.50	0.090	213.96	96.83	3.17
200	3.75	0.075	215.13	97.36	2.64
230	4.00	0.063	218.07	98.69	1.31
PAN			220.93	99.98	0.02

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PHI (5): 1.82                    PHI (16): 2.39                    PHI (25): 2.56  
PHI (50): 2.80                    PHI (75): 3.09                    PHI (84): 3.26  
PHI (95): 3.47  
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SIEVE LOSS (g): 0.04                    SILT/CLAY: 2.64%  
SKEWNESS: -0.368                    KURTOSIS: 1.285  
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GRAPHIC METHOD  
MEAN (PHI): 2.75                    SORTING: 0.43  
MEAN (mm) : 0.15                    MEDIAN (mm): 0.14  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  
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MOMENT METHOD  
MEAN (PHI): 2.74                    SORTING: 0.55  
MEAN (mm) : 0.15  
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DATA FILE NAME: VC99-30#2.TAB

GRADATION ANALYSIS REPORT  
 TOWN OF PALM BEACH  
 TESTED BY: RW ON: 6/9/99

SAMPLE NO.: VC99 30#3  
 SAMPLE ELEV. (FT. NGVD): -49.2  
 SAMPLE DEPTH (FT.): 11.0  
 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 221.93  
 SAMPLE WEIGHT AFTER WASH (GRAMS): 215.04

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	0.40	0.18	99.82
10	-1.00	2.000	0.60	0.27	99.73
14	-0.50	1.400	0.95	0.43	99.57
18	0.00	1.000	1.36	0.61	99.39
25	0.50	0.710	1.95	0.88	99.12
35	1.00	0.500	3.21	1.45	98.55
45	1.50	0.355	6.01	2.71	97.29
60	2.00	0.250	13.93	6.28	93.72
80	2.50	0.180	46.02	20.74	79.26
120	3.00	0.125	172.45	77.70	22.30
170	3.50	0.090	213.39	96.15	3.85
200	3.75	0.075	214.42	96.62	3.38
230	4.00	0.063	218.36	98.39	1.61
PAN			221.91	99.99	0.01

PHI (5): 1.82                      PHI (16): 2.34                      PHI (25): 2.54  
 PHI (50): 2.76                      PHI (75): 2.98                      PHI (84): 3.17  
 PHI (95): 3.47

SIEVE LOSS(g): 0.02                      SILT/CLAY: 3.38%  
 SKEWNESS: -0.268                      KURTOSIS: 1.539

GRAPHIC METHOD

MEAN (PHI): 2.71                      SORTING: 0.42  
 MEAN (mm) : 0.15                      MEDIAN (mm): 0.15  
 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.70                      SORTING: 0.55  
 MEAN (mm) : 0.15

DATA FILE NAME: VC99-30#3.TAB

GRADATION ANALYSIS REPORT  
 TOWN OF PALM BEACH  
 TESTED BY: RW            ON: 6/9/99

SAMPLE NO.: VC99 30#4  
 SAMPLE ELEV. (FT. NGVD): -53.2  
 SAMPLE DEPTH (FT.): 15.0  
 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 205.77  
 SAMPLE WEIGHT AFTER WASH (GRAMS): 197.05

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	0.41	0.20	99.80
5	-2.00	4.000	2.84	1.38	98.62
7	-1.50	2.800	4.50	2.19	97.81
10	-1.00	2.000	6.32	3.07	96.93
14	-0.50	1.400	9.43	4.58	95.42
18	0.00	1.000	12.33	5.99	94.01
25	0.50	0.710	15.43	7.50	92.50
35	1.00	0.500	19.88	9.66	90.34
45	1.50	0.355	24.82	12.06	87.94
60	2.00	0.250	32.22	15.66	84.34
80	2.50	0.180	55.84	27.14	72.86
120	3.00	0.125	161.39	78.43	21.57
170	3.50	0.090	196.23	95.36	4.64
200	3.75	0.075	196.83	95.66	4.34
230	4.00	0.063	201.36	97.86	2.14
PAN			205.76	100.00	0.00

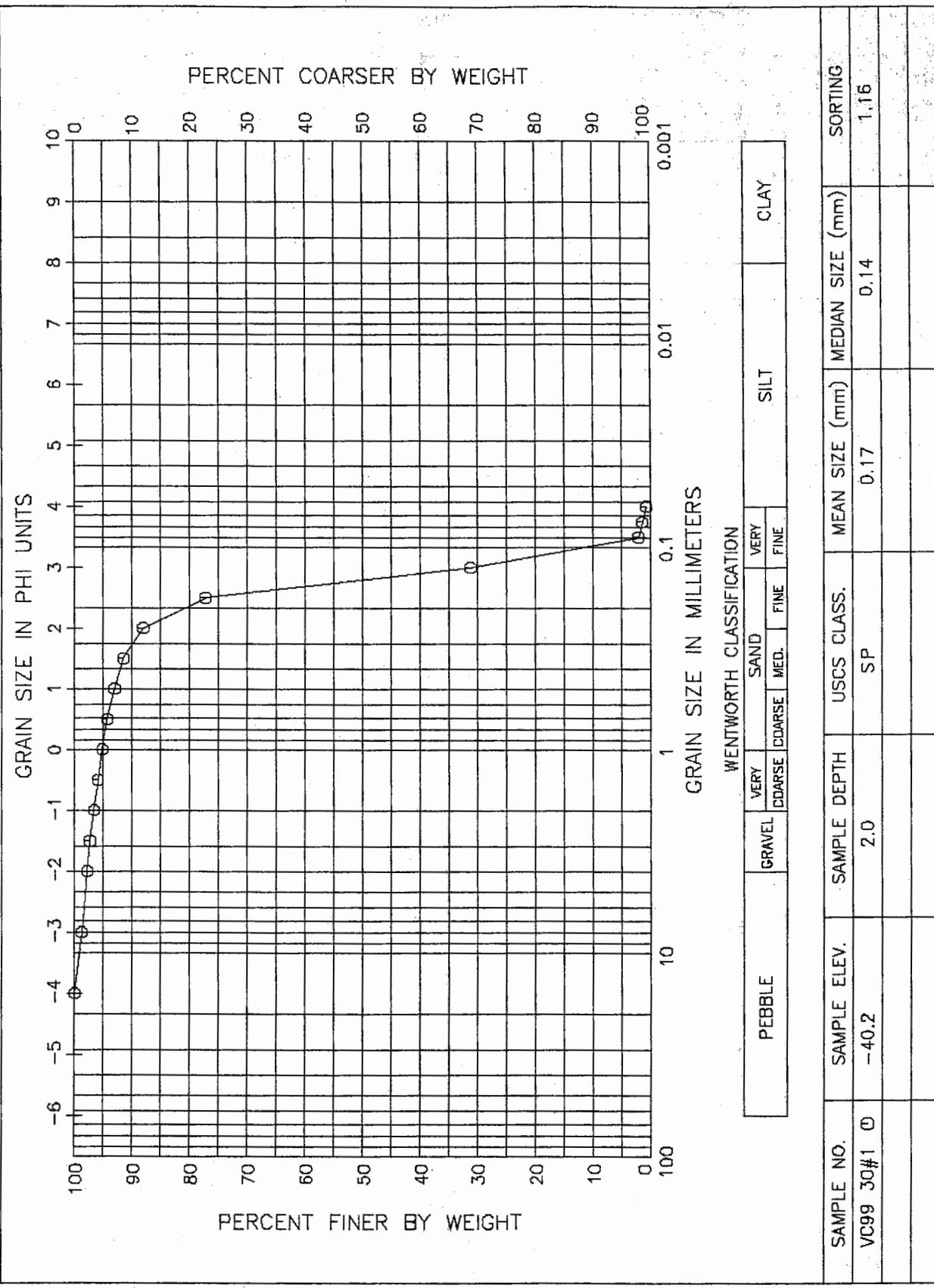
PHI (5): -0.35            PHI (16): 2.01            PHI (25): 2.41  
 PHI (50): 2.72            PHI (75): 2.97            PHI (84): 3.16  
 PHI (95): 3.49

SIEVE LOSS (g): 0.01            SILT/CLAY: 4.34%  
 SKEWNESS: -2.008            KURTOSIS: 2.813

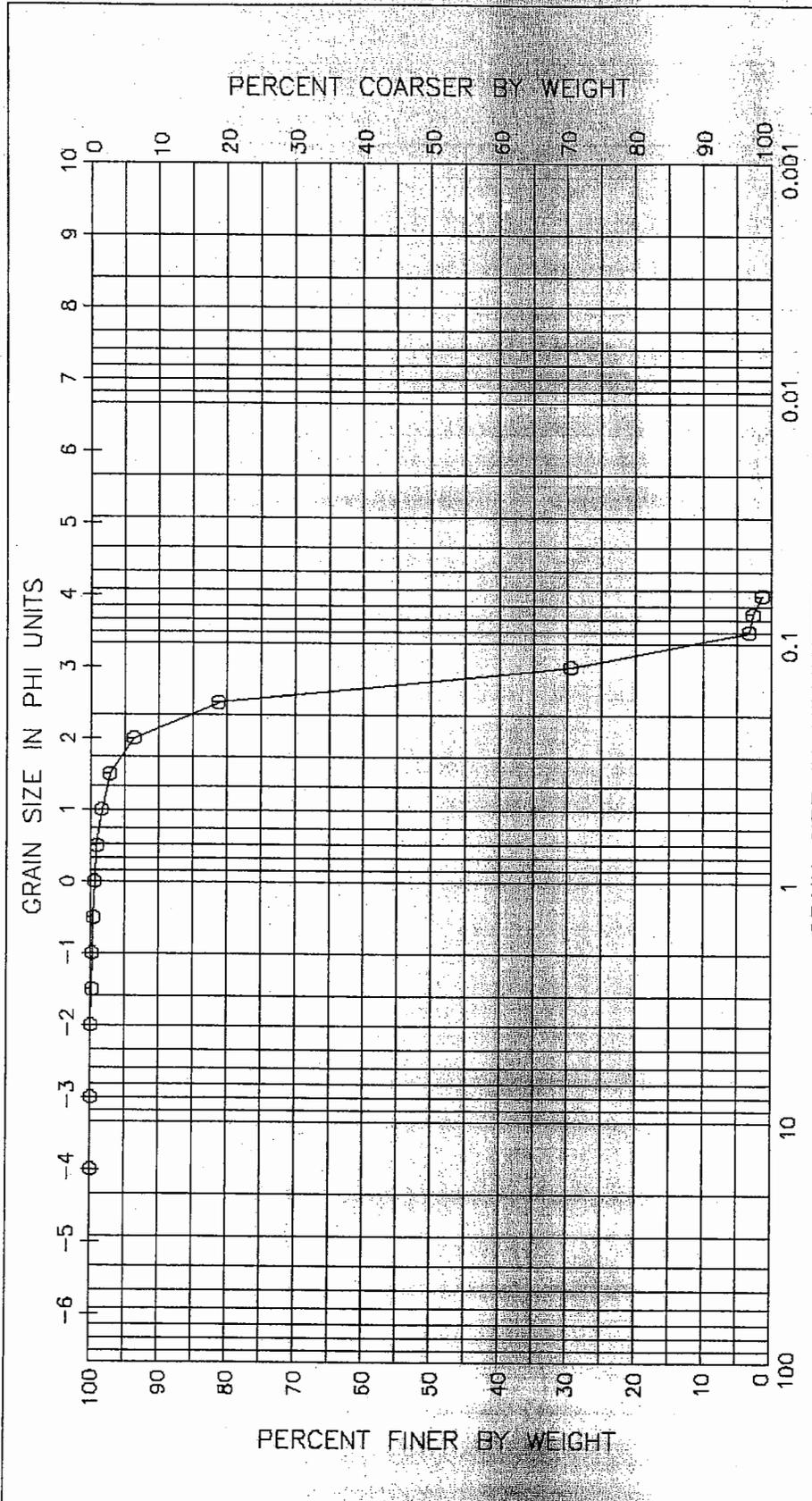
GRAPHIC METHOD  
 MEAN (PHI): 2.21            SORTING: 0.57  
 MEAN (mm) : 0.22            MEDIAN (mm): 0.15  
 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD  
 MEAN (PHI): 2.40            SORTING: 1.14  
 MEAN (mm) : 0.19

DATA FILE NAME: VC99-30#4.TAB



GRAIN SIZE DISTRIBUTION CURVE  
TOWN OF PALM BEACH

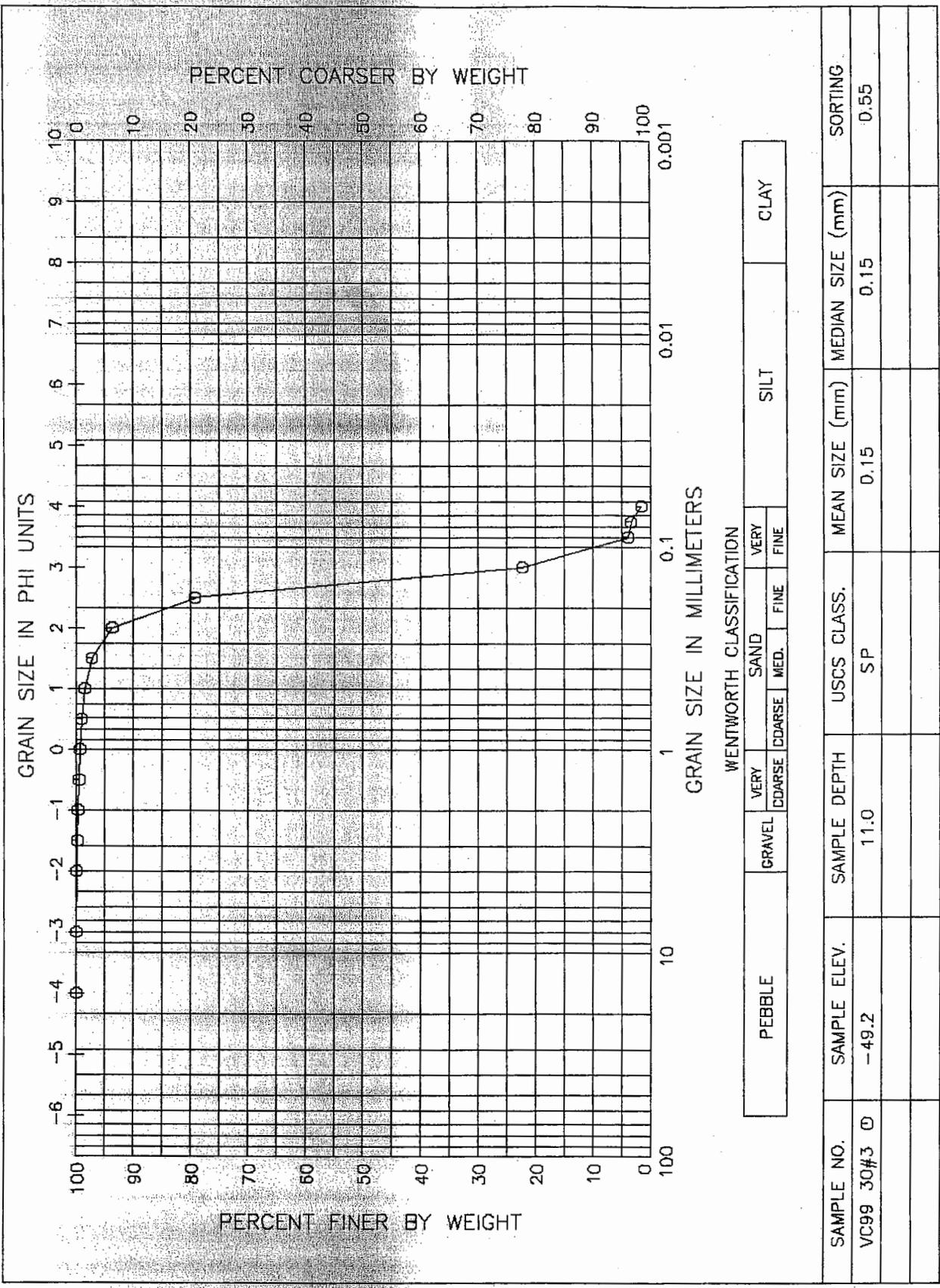


WENTWORTH CLASSIFICATION

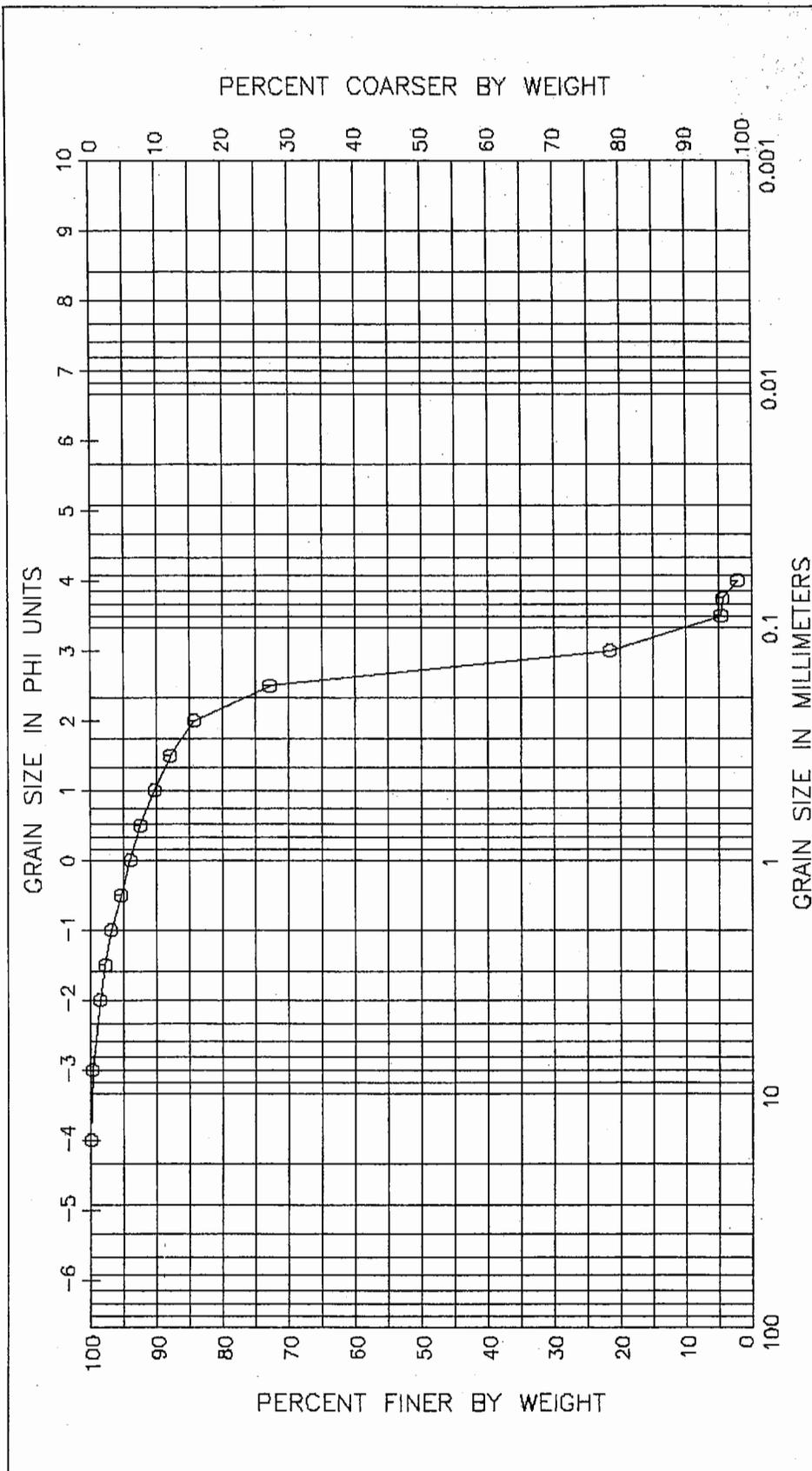
PEBBLE	GRAVEL	SAND		SILT		CLAY
		VERY COARSE	MED. FINE	VERY FINE		

SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
VC99 30#2 0	-42.2	4.0	SP	0.15	0.14	0.55

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
V099 30#4 0	-53.2	15.0	SP	0.19	0.15	1.14

GRAIN SIZE DISTRIBUTION CURVE  
TOWN OF PALM BEACH