

GRADATION ANALYSIS REPORT  
TOWN OF PALM BEACH  
TESTED BY: RW ON: 6/14/99

SAMPLE NO.: VC99 89#1  
SAMPLE ELEV. (FT. NGVD): -45.2  
SAMPLE DEPTH (FT.): 1.5  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 168.37  
SAMPLE WEIGHT AFTER WASH (GRAMS): 166.35

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	1.02	0.61	99.39
7	-1.50	2.800	1.55	0.92	99.08
10	-1.00	2.000	2.53	1.50	98.50
14	-0.50	1.400	4.52	2.68	97.32
18	0.00	1.000	6.72	3.99	96.01
25	0.50	0.710	10.11	6.00	94.00
35	1.00	0.500	15.64	9.29	90.71
45	1.50	0.355	21.86	12.98	87.02
60	2.00	0.250	31.10	18.47	81.53
80	2.50	0.180	68.31	40.57	59.43
120	3.00	0.125	128.40	76.26	23.74
170	3.50	0.090	165.53	98.31	1.69
200	3.75	0.075	166.09	98.65	1.35
230	4.00	0.063	167.21	99.31	0.69
PAN			168.33	99.98	0.02

PHI (5): 0.25                      PHI (16): 1.77                      PHI (25): 2.15  
PHI (50): 2.63                      PHI (75): 2.98                      PHI (84): 3.18  
PHI (95): 3.42

SIEVE LOSS (g): 0.04                      SILT/CLAY: 1.35%  
SKEWNESS: -1.134                      KURTOSIS: 1.559

GRAPHIC METHOD  
MEAN (PHI): 2.25                      SORTING: 0.70  
MEAN (mm): 0.21                      MEDIAN (mm): 0.16  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD  
MEAN (PHI): 2.38                      SORTING: 0.99  
MEAN (mm): 0.19

DATA FILE NAME: VC99-89#1.TAB

GRADATION ANALYSIS REPORT  
TOWN OF PALM BEACH  
TESTED BY: RW ON: 6/14/99

SAMPLE NO.: VC99 89#2  
SAMPLE ELEV. (FT. NGVD): -46.4  
SAMPLE DEPTH (FT.): 2.7  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 170.32  
SAMPLE WEIGHT AFTER WASH (GRAMS): 168.63

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	25.72	15.10	84.90
5	-2.00	4.000	31.01	18.21	81.79
7	-1.50	2.800	33.68	19.77	80.23
10	-1.00	2.000	36.72	21.56	78.44
14	-0.50	1.400	41.70	24.48	75.52
18	0.00	1.000	47.08	27.64	72.36
25	0.50	0.710	52.91	31.07	68.93
35	1.00	0.500	57.72	33.89	66.11
45	1.50	0.355	60.82	35.71	64.29
60	2.00	0.250	65.08	38.21	61.79
80	2.50	0.180	76.99	45.20	54.80
120	3.00	0.125	145.08	85.18	14.82
170	3.50	0.090	168.24	98.78	1.22
200	3.75	0.075	168.39	98.87	1.13
230	4.00	0.063	169.38	99.45	0.55
PAN			170.31	99.99	0.01

PHI (5): -3.67      PHI (16): -2.71      PHI (25): -0.42  
PHI (50): 2.56      PHI (75): 2.87      PHI (84): 2.99  
PHI (95): 3.36

SIEVE LOSS (g): 0.01      SILT/CLAY: 1.13%  
SKEWNESS: -0.953      KURTOSIS: 0.875

GRAPHIC METHOD

MEAN (PHI): 0.51      SORTING: 2.85  
MEAN (mm): 0.70      MEDIAN (mm): 0.17  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.14      SORTING: 2.43  
MEAN (mm): 0.45

DATA FILE NAME: VC99-89#2.TAB

GRADATION ANALYSIS REPORT

TOWN OF PALM BEACH

TESTED BY: RW ON: 6/14/99

SAMPLE NO.: VC99 89#3  
 SAMPLE ELEV. (FT. NGVD): -48.5  
 SAMPLE DEPTH (FT.): 4.8  
 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 150.05  
 SAMPLE WEIGHT AFTER WASH (GRAMS): 148.24

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	0.01	0.01	99.99
5	-2.00	4.000	0.05	0.03	99.97
7	-1.50	2.800	0.07	0.05	99.95
10	-1.00	2.000	0.18	0.12	99.88
14	-0.50	1.400	0.49	0.33	99.67
18	0.00	1.000	1.17	0.78	99.22
25	0.50	0.710	2.24	1.49	98.51
35	1.00	0.500	4.13	2.75	97.25
45	1.50	0.355	6.32	4.21	95.79
60	2.00	0.250	25.76	17.17	82.83
80	2.50	0.180	128.73	85.79	14.21
120	3.00	0.125	147.53	98.32	1.68
170	3.50	0.090	148.15	98.73	1.27
200	3.75	0.075	148.19	98.76	1.24
230	4.00	0.063	149.12	99.38	0.62
PAN			150.05	100.00	0.00

PHI (5): 1.53                      PHI (16): 1.95                      PHI (25): 2.06  
 PHI (50): 2.24                      PHI (75): 2.42                      PHI (84): 2.49  
 PHI (95): 2.87

SIEVE LOSS (g): 0.00                      SILT/CLAY: 1.24%  
 SKEWNESS: -0.151                      KURTOSIS: 1.504

GRAPHIC METHOD  
 MEAN (PHI): 2.22                      SORTING: 0.27  
 MEAN (mm): 0.22                      MEDIAN (mm): 0.21  
 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD  
 MEAN (PHI): 2.19                      SORTING: 0.47  
 MEAN (mm): 0.22

DATA FILE NAME: VC99-89#3.TAB

GRADATION ANALYSIS REPORT  
TOWN OF PALM BEACH  
TESTED BY: RW ON: 6/14/99

SAMPLE NO.: VC99 89#4  
SAMPLE ELEV. (FT. NGVD): -49.9  
SAMPLE DEPTH (FT.): 6.2  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 153.03  
SAMPLE WEIGHT AFTER WASH (GRAMS): 151.65

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	8.42	5.50	94.50
5	-2.00	4.000	14.20	9.28	90.72
7	-1.50	2.800	18.16	11.87	88.13
10	-1.00	2.000	24.26	15.85	84.15
14	-0.50	1.400	34.75	22.71	77.29
18	0.00	1.000	43.53	28.45	71.55
25	0.50	0.710	59.73	39.03	60.97
35	1.00	0.500	76.47	49.97	50.03
45	1.50	0.355	87.50	57.18	42.82
60	2.00	0.250	97.93	63.99	36.01
80	2.50	0.180	109.72	71.70	28.30
120	3.00	0.125	142.95	93.41	6.59
170	3.50	0.090	151.40	98.93	1.07
200	3.75	0.075	151.56	99.04	0.96
230	4.00	0.063	152.27	99.50	0.50
PAN			152.99	99.97	0.03

PHI (5): -3.09      PHI (16): -0.99      PHI (25): -0.30  
PHI (50): 1.00      PHI (75): 2.58      PHI (84): 2.78  
PHI (95): 3.14

SIEVE LOSS (g): 0.04      SILT/CLAY: 0.96%  
SKEWNESS: -0.517      KURTOSIS: 0.888

GRAPHIC METHOD

MEAN (PHI): 0.57      SORTING: 1.89  
MEAN (mm): 0.67      MEDIAN (mm): 0.50  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 0.85      SORTING: 1.87  
MEAN (mm): 0.56

DATA FILE NAME: VC99-89#4.TAB

GRADATION ANALYSIS REPORT  
TOWN OF PALM BEACH  
TESTED BY: ID ON: 10/99

SAMPLE NO.: VC-99#89-5  
SAMPLE ELEV. (FT. NGVD): 0.0  
SAMPLE DEPTH (FT.): 9.0  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 96.80  
SAMPLE WEIGHT AFTER WASH (GRAMS): 95.12

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	2.90	3.00	97.00
7	-1.50	2.800	3.76	3.88	96.12
10	-1.00	2.000	4.85	5.01	94.99
14	-0.50	1.400	6.36	6.57	93.43
18	0.00	1.000	8.64	8.93	91.07
25	0.50	0.710	12.15	12.55	87.45
35	1.00	0.500	16.32	16.86	83.14
45	1.50	0.355	21.15	21.85	78.15
60	2.00	0.250	29.81	30.80	69.20
80	2.50	0.180	48.59	50.20	49.80
120	3.00	0.125	89.07	92.01	7.99
170	3.50	0.090	94.92	98.06	1.94
200	3.75	0.075	95.08	98.22	1.78
230	4.00	0.063	95.95	99.12	0.88
PAN			96.80	100.00	0.00

PHI(5): -1.00                      PHI(16): 0.90                      PHI(25): 1.68  
PHI(50): 2.49                      PHI(75): 2.80                      PHI(84): 2.90  
PHI(95): 3.25

SIEVE LOSS (g): 0.00                      SILT/CLAY: 1.78%  
SKEWNESS: -1.371                      KURTOSIS: 1.555

GRAPHIC METHOD

MEAN (PHI): 1.71                      SORTING: 1.00  
MEAN (mm): 0.31                      MEDIAN (mm): 0.18  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.98                      SORTING: 1.30  
MEAN (mm): 0.25

DATA FILE NAME: vc-99#89-5.tab

GRADATION ANALYSIS REPORT  
TOWN OF PALM BEACH  
TESTED BY: RW ON: 6/14/99

SAMPLE NO.: VC99 89#6  
SAMPLE ELEV. (FT. NGVD): -56.7  
SAMPLE DEPTH (FT.): 13.0  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 152.36  
SAMPLE WEIGHT AFTER WASH (GRAMS): 150.57

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	1.27	0.83	99.17
5	-2.00	4.000	2.70	1.77	98.23
7	-1.50	2.800	4.85	3.18	96.82
10	-1.00	2.000	8.26	5.42	94.58
14	-0.50	1.400	14.78	9.70	90.30
18	0.00	1.000	19.81	13.00	87.00
25	0.50	0.710	31.32	20.56	79.44
35	1.00	0.500	48.70	31.96	68.04
45	1.50	0.355	67.01	43.98	56.02
60	2.00	0.250	92.14	60.48	39.52
80	2.50	0.180	118.02	77.46	22.54
120	3.00	0.125	144.62	94.92	5.08
170	3.50	0.090	150.21	98.59	1.41
200	3.75	0.075	150.42	98.73	1.27
230	4.00	0.063	151.43	99.39	0.61
PAN			152.36	100.00	0.00

PHI(5): -1.09      PHI(16): 0.20      PHI(25): 0.69  
PHI(50): 1.68      PHI(75): 2.43      PHI(84): 2.69  
PHI(95): 3.01

SIEVE LOSS(g): 0.00      SILT/CLAY: 1.27%  
SKEWNESS: -0.582      KURTOSIS: 0.971

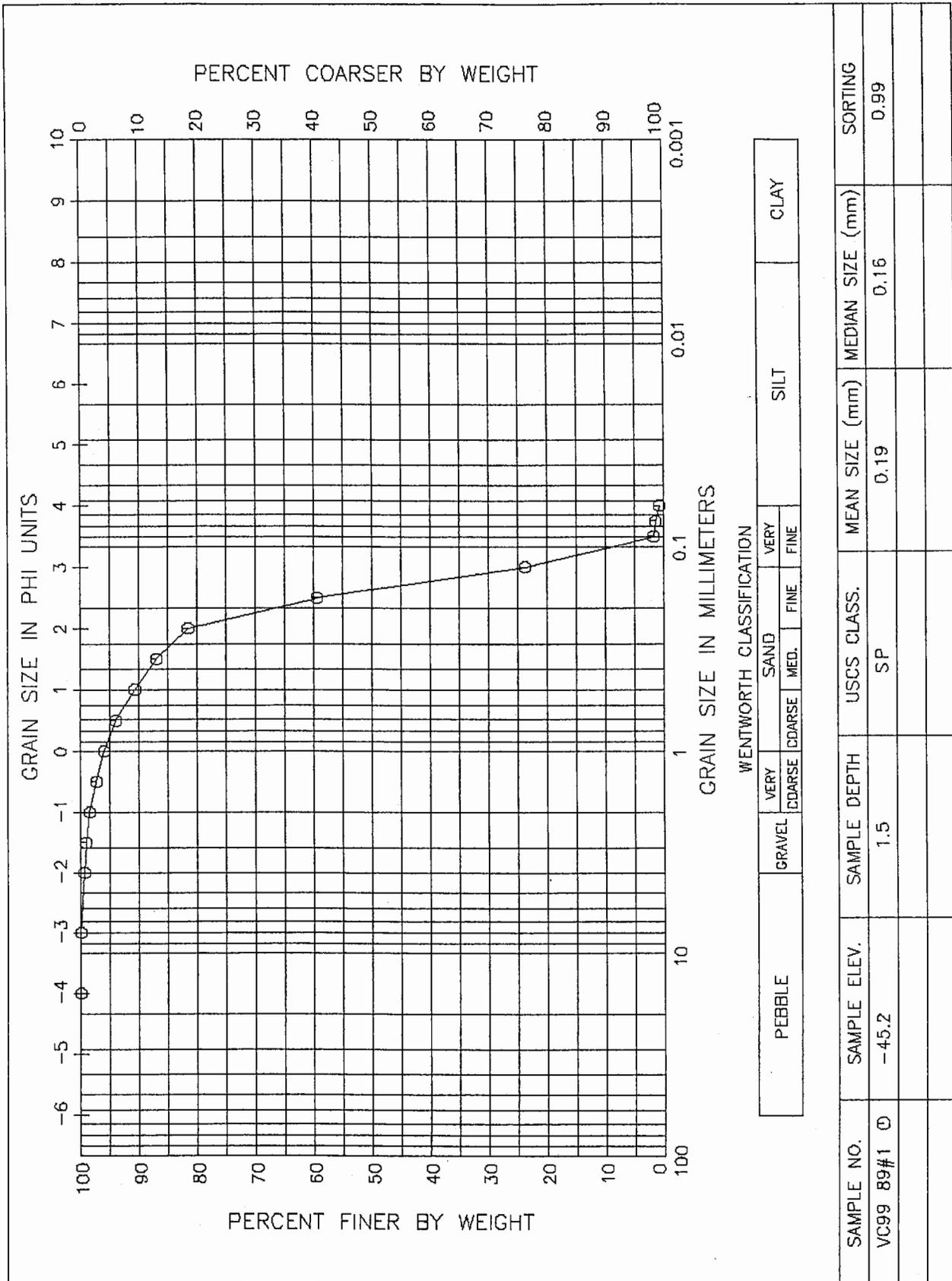
GRAPHIC METHOD

MEAN (PHI): 1.30      SORTING: 1.24  
MEAN (mm): 0.41      MEDIAN (mm): 0.31  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

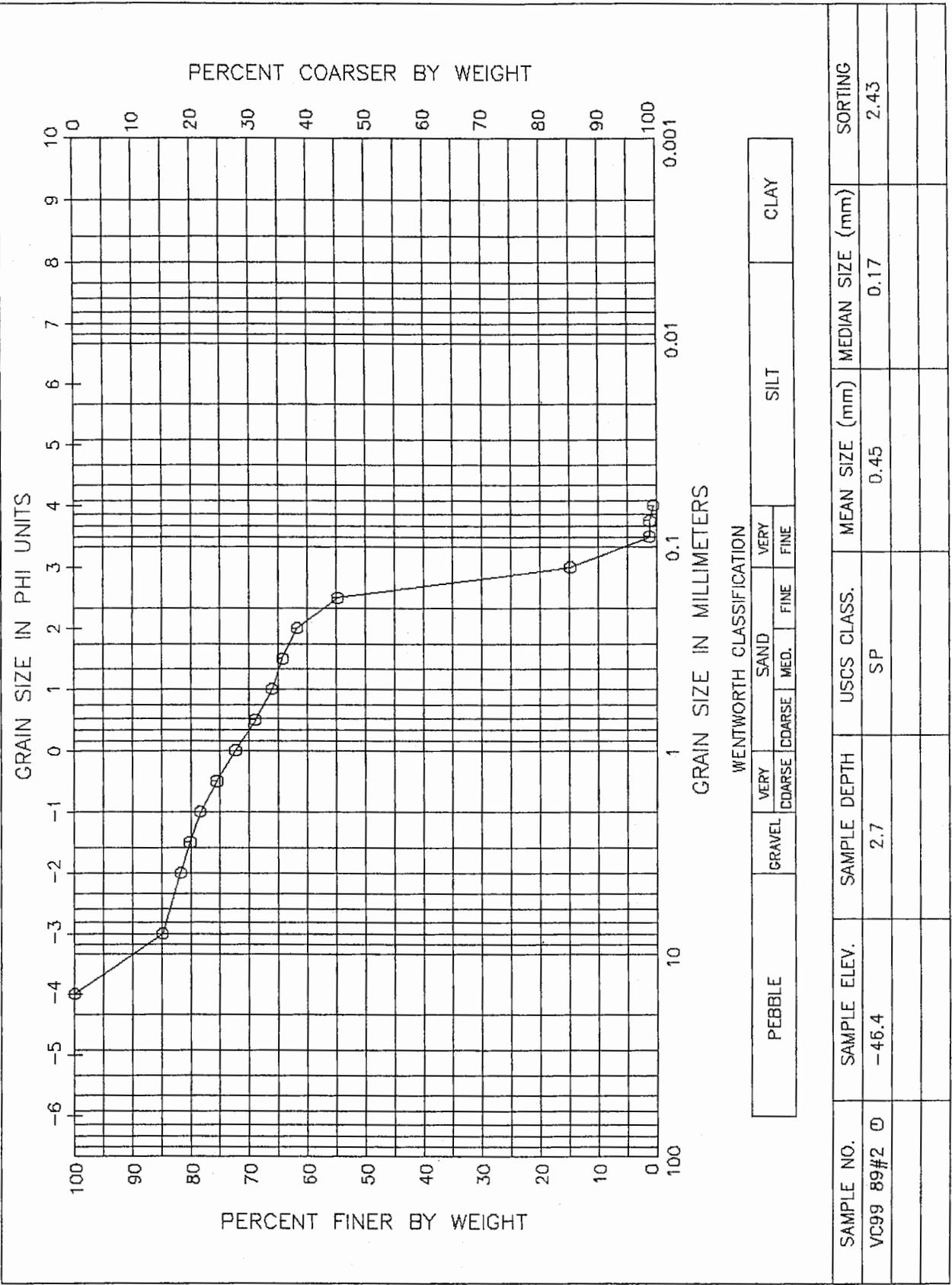
MOMENT METHOD

MEAN (PHI): 1.42      SORTING: 1.31  
MEAN (mm): 0.37

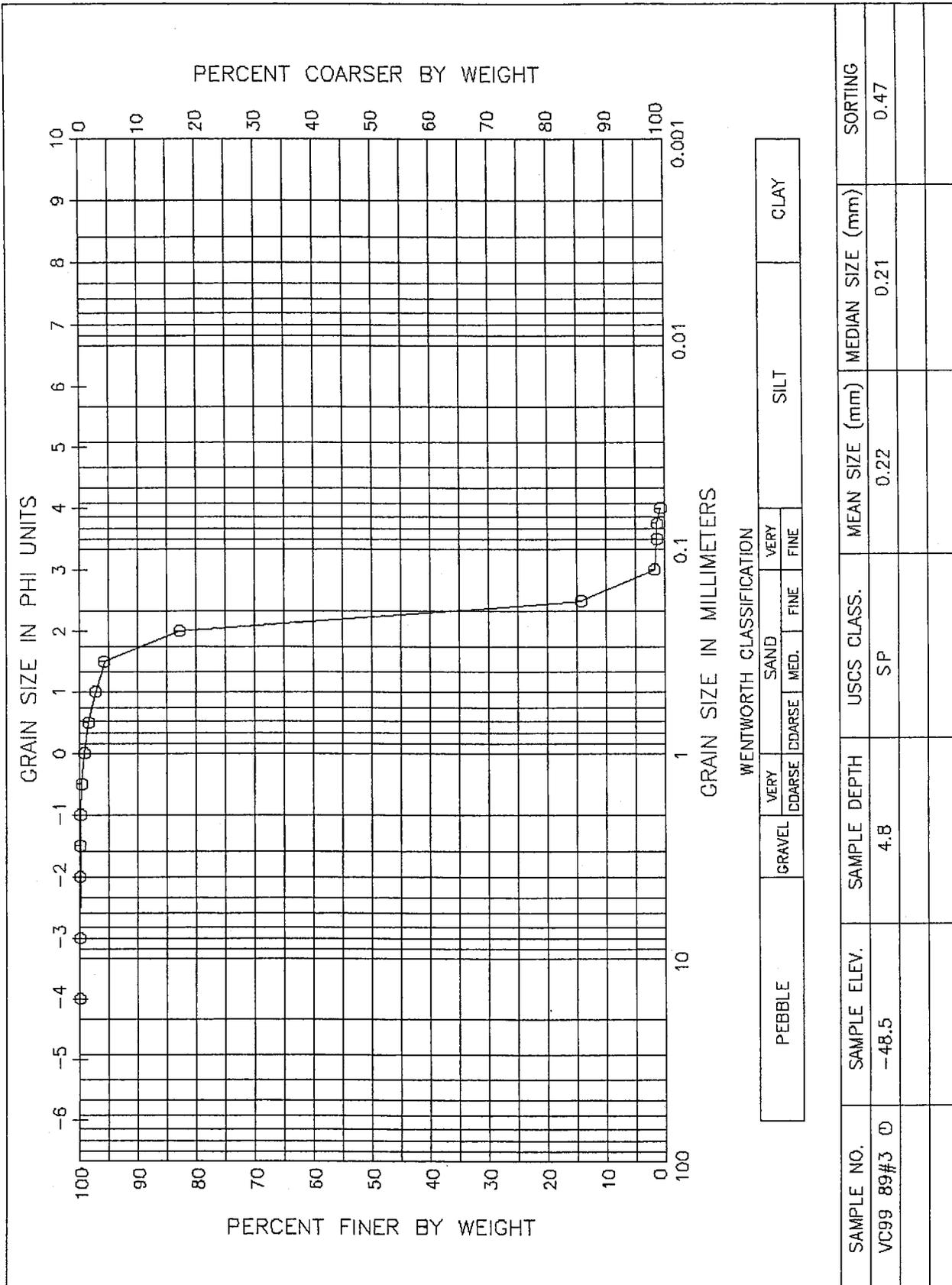
DATA FILE NAME: VC99-89#6.TAB



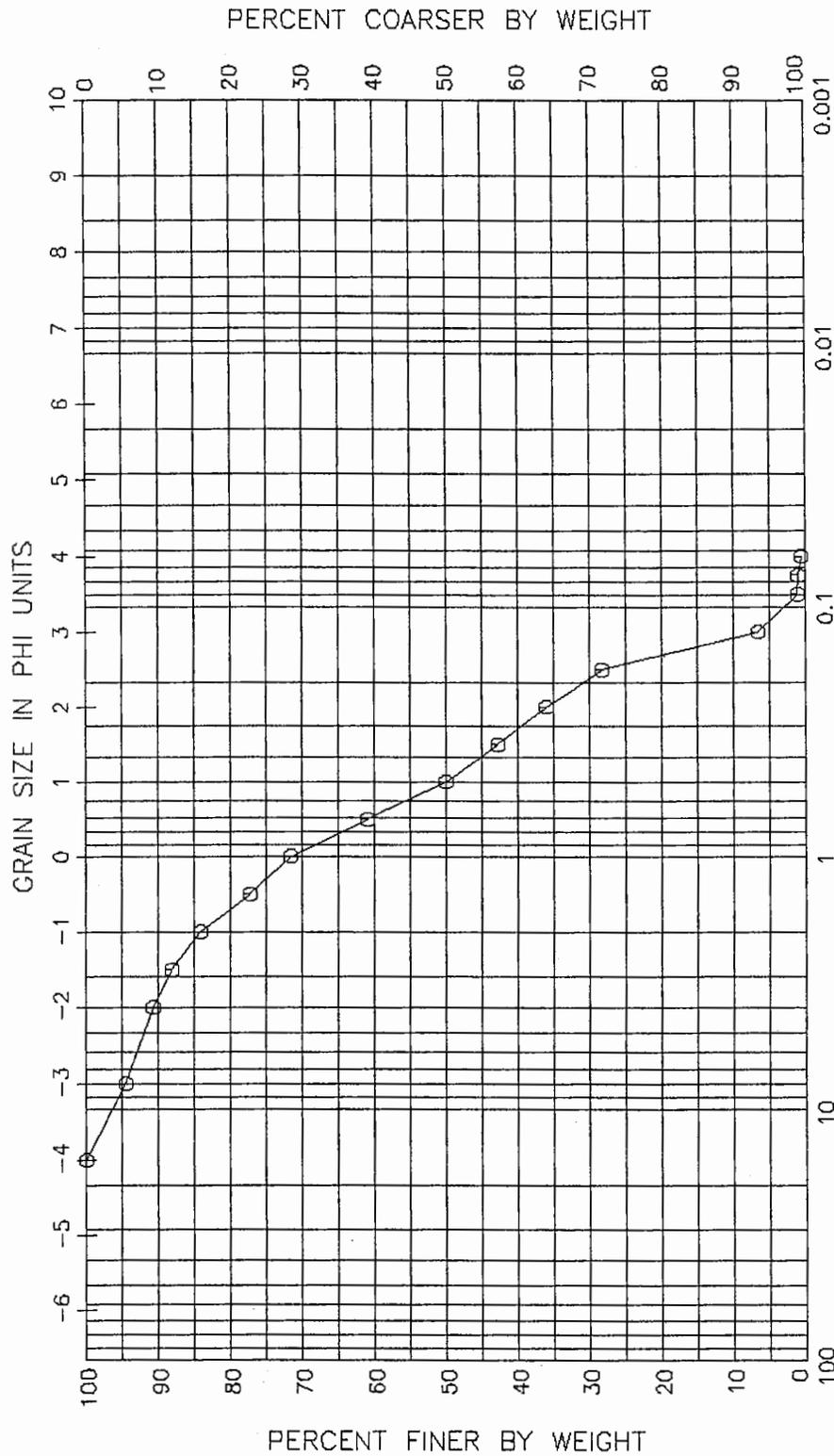
GRAIN SIZE DISTRIBUTION CURVE  
TOWN OF PALM BEACH



GRAIN SIZE DISTRIBUTION CURVE  
TOWN OF PALM BEACH



GRAIN SIZE DISTRIBUTION CURVE  
TOWN OF PALM BEACH

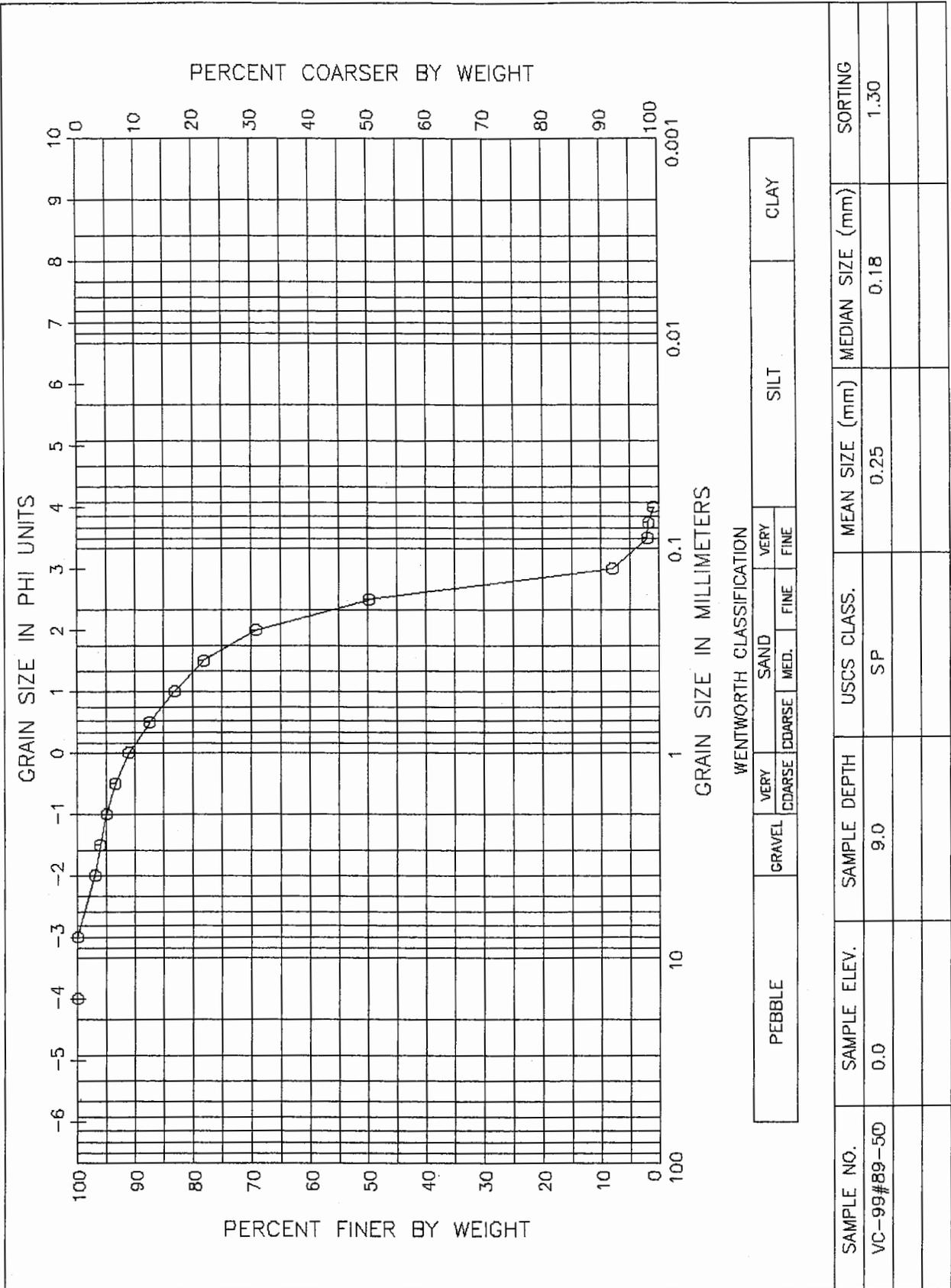


WENTWORTH CLASSIFICATION

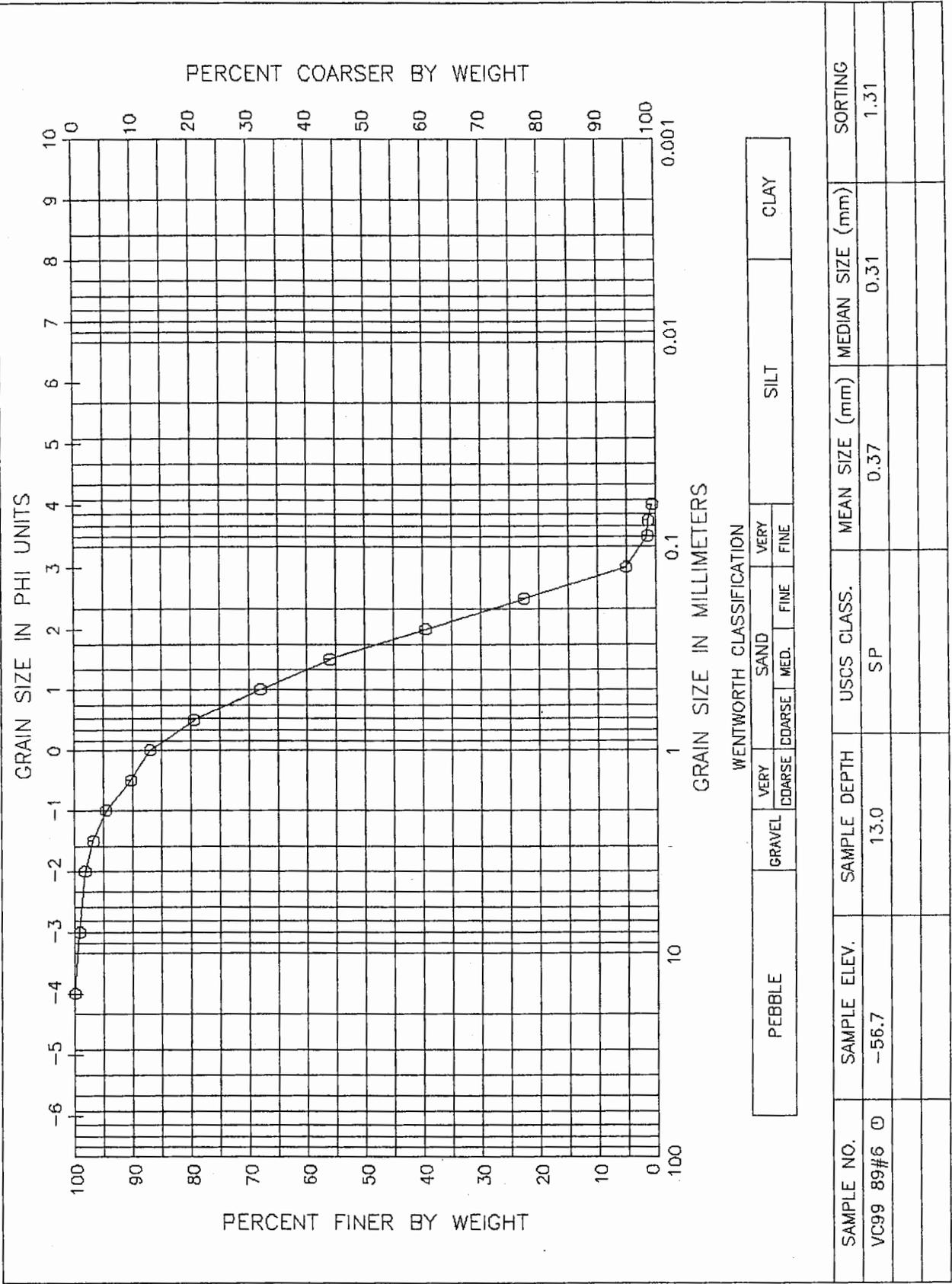
PEBBLE	GRAVEL	SAND		SILT		CLAY
		VERY COARSE	MED. FINE	VERY FINE		

SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
VC99 89#4 0	-49.9	6.2	SP	0.56	0.50	1.87

GRAIN SIZE DISTRIBUTION CURVE  
TOWN OF PALM BEACH



GRAIN SIZE DISTRIBUTION CURVE  
TOWN OF PALM BEACH



GRAIN SIZE DISTRIBUTION CURVE  
TOWN OF PALM BEACH