

## GRADATION ANALYSIS REPORT

TOWN OF PALM BEACH

TESTED BY: RW ON: 5/21/99

SAMPLE NO.: VC99 88#1

SAMPLE ELEV. (FT. NGVD): -37.5

SAMPLE DEPTH (FT.): 3.0

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 94.49

SAMPLE WEIGHT AFTER WASH (GRAMS): 93.72

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	1.11	1.17	98.83
5	-2.00	4.000	1.53	1.62	98.38
7	-1.50	2.800	2.01	2.13	97.87
10	-1.00	2.000	2.31	2.44	97.56
14	-0.50	1.400	3.08	3.26	96.74
18	0.00	1.000	4.16	4.40	95.60
25	0.50	0.710	5.69	6.02	93.98
35	1.00	0.500	8.52	9.02	90.98
45	1.50	0.355	11.67	12.35	87.65
60	2.00	0.250	19.06	20.17	79.83
80	2.50	0.180	37.14	39.31	60.69
120	3.00	0.125	76.08	80.52	19.48
170	3.50	0.090	93.41	98.86	1.14
200	3.75	0.075	93.55	99.01	0.99
230	4.00	0.063	94.02	99.51	0.49
PAN			94.46	99.97	0.03

PHI(5): 0.18      PHI(16): 1.73      PHI(25): 2.13  
PHI(50): 2.63      PHI(75): 2.93      PHI(84): 3.09  
PHI(95): 3.39

SIEVE LOSS(g): 0.03      SILT/CLAY: 0.99%  
SKEWNESS: -1.234      KURTOSIS: 1.631

## GRAPHIC METHOD

MEAN (PHI): 2.21      SORTING: 0.68  
MEAN (mm): 0.22      MEDIAN (mm): 0.16

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

## MOMENT METHOD

MEAN (PHI): 2.33      SORTING: 1.11  
MEAN (mm): 0.20

DATA FILE NAME: VC99-88#1.TAB

## GRADATION ANALYSIS REPORT

TOWN OF PALM BEACH

TESTED BY: RW

ON: 5/21/99

SAMPLE NO.: VC99 88#2

SAMPLE ELEV. (FT. NGVD): -41.5

SAMPLE DEPTH (FT.): 7.0

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 84.54

SAMPLE WEIGHT AFTER WASH (GRAMS): 83.40

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	0.61	0.72	99.28
5	-2.00	4.000	1.32	1.56	98.44
7	-1.50	2.800	1.60	1.89	98.11
10	-1.00	2.000	2.18	2.58	97.42
14	-0.50	1.400	3.00	3.55	96.45
18	0.00	1.000	3.70	4.38	95.62
25	0.50	0.710	4.94	5.84	94.16
35	1.00	0.500	7.29	8.62	91.38
45	1.50	0.355	10.66	12.61	87.39
60	2.00	0.250	18.14	21.46	78.54
80	2.50	0.180	34.97	41.37	58.63
120	3.00	0.125	68.25	80.73	19.27
170	3.50	0.090	83.02	98.20	1.80
200	3.75	0.075	83.30	98.53	1.47
230	4.00	0.063	83.93	99.28	0.72
PAN			84.54	100.00	0.00

PHI (5): 0.21

PHI (16): 1.69

PHI (25): 2.09

PHI (50): 2.61

PHI (75): 2.93

PHI (84): 3.09

PHI (95): 3.41

SIEVE LOSS (g): 0.00

SILT/CLAY: 1.47%

SKEWNESS: -1.140

KURTOSIS: 1.563

## GRAPHIC METHOD

MEAN (PHI): 2.20

SORTING: 0.70

MEAN (mm): 0.22

MEDIAN (mm): 0.16

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

## MOMENT METHOD

MEAN (PHI): 2.32

SORTING: 1.09

MEAN (mm): 0.20

DATA FILE NAME: VC99-88#2.TAB

## GRADATION ANALYSIS REPORT

TOWN OF PALM BEACH

TESTED BY: RW ON: 5/21/99

SAMPLE NO.: VC99 88#3

SAMPLE ELEV. (FT. NGVD): -46.5

SAMPLE DEPTH (FT.): 12.0

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 89.89

SAMPLE WEIGHT AFTER WASH (GRAMS): 88.10

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	0.28	0.31	99.69
5	-2.00	4.000	1.34	1.49	98.51
7	-1.50	2.800	1.79	1.99	98.01
10	-1.00	2.000	2.19	2.44	97.56
14	-0.50	1.400	2.83	3.15	96.85
18	0.00	1.000	3.36	3.74	96.26
25	0.50	0.710	4.73	5.26	94.74
35	1.00	0.500	7.18	7.99	92.01
45	1.50	0.355	10.40	11.57	88.43
60	2.00	0.250	16.49	18.34	81.66
80	2.50	0.180	30.57	34.01	65.99
120	3.00	0.125	70.80	78.76	21.24
170	3.50	0.090	87.70	97.56	2.44
200	3.75	0.075	87.99	97.89	2.11
230	4.00	0.063	88.96	98.97	1.03
PAN			89.89	100.00	0.00

PHI (5): 0.41	PHI (16): 1.83	PHI (25): 2.21
PHI (50): 2.68	PHI (75): 2.96	PHI (84): 3.14
PHI (95): 3.43		

SIEVE LOSS (g): 0.00	SILT/CLAY: 2.11%
SKEWNESS: -1.152	KURTOSIS: 1.659

## GRAPHIC METHOD

MEAN (PHI): 2.30	SORTING: 0.66
MEAN (mm): 0.20	MEDIAN (mm): 0.16

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

## MOMENT METHOD

MEAN (PHI): 2.40	SORTING: 1.05
MEAN (mm): 0.19	

DATA FILE NAME: VC99-88#3.TAB

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

SAMPLE NO.: VC-99#88-4  
SAMPLE ELEV. (FT. NGVD): 0.0  
SAMPLE DEPTH (FT.): 1.4  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 96.88  
SAMPLE WEIGHT AFTER WASH (GRAMS): 96.30

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	0.00	0.00	100.00
7	-1.50	2.800	0.20	0.21	99.79
10	-1.00	2.000	0.29	0.30	99.70
14	-0.50	1.400	0.53	0.55	99.45
18	0.00	1.000	0.82	0.85	99.15
25	0.50	0.710	1.24	1.28	98.72
35	1.00	0.500	2.23	2.30	97.70
45	1.50	0.355	3.29	3.40	96.60
60	2.00	0.250	5.66	5.84	94.16
80	2.50	0.180	13.76	14.20	85.80
120	3.00	0.125	59.68	61.60	38.40
170	3.50	0.090	95.80	98.89	1.11
200	3.75	0.075	96.26	99.36	0.64
230	4.00	0.063	96.57	99.68	0.32
PAN			96.87	99.99	0.01

PHI(5): 1.83 PHI(16): 2.52 PHI(25): 2.61  
PHI(50): 2.88 PHI(75): 3.18 PHI(84): 3.30  
PHI(95): 3.45

SIEVE LOSS(g): 0.01 SILT/CLAY: 0.64%  
SKEWNESS: -0.614 KURTOSIS: 1.174

GRAPHIC METHOD

MEAN (PHI): 2.79 SORTING: 0.39  
MEAN (mm): 0.14 MEDIAN (mm): 0.14  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.80 SORTING: 0.59  
MEAN (mm): 0.14

DATA FILE NAME: VC-99#88-4.TAB

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

SAMPLE NO.: VC-99#88-5  
SAMPLE ELEV. (FT. NGVD): 0.0  
SAMPLE DEPTH (FT.): 3.7  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 95.46  
SAMPLE WEIGHT AFTER WASH (GRAMS): 95.14

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	1.37	1.44	98.56
5	-2.00	4.000	2.44	2.56	97.44
7	-1.50	2.800	2.95	3.09	96.91
10	-1.00	2.000	3.68	3.86	96.14
14	-0.50	1.400	5.19	5.44	94.56
18	0.00	1.000	7.01	7.34	92.66
25	0.50	0.710	9.88	10.35	89.65
35	1.00	0.500	14.00	14.67	85.33
45	1.50	0.355	19.45	20.38	79.62
60	2.00	0.250	30.32	31.76	68.24
80	2.50	0.180	50.11	52.49	47.51
120	3.00	0.125	85.77	89.85	10.15
170	3.50	0.090	95.03	99.55	0.45
200	3.75	0.075	95.13	99.65	0.35
230	4.00	0.063	95.30	99.83	0.17
PAN			95.46	100.00	0.00

PHI(5): -0.64 PHI(16): 1.12 PHI(25): 1.70  
PHI(50): 2.44 PHI(75): 2.80 PHI(84): 2.92  
PHI(95): 3.27

SIEVE LOSS(g): 0.00 SILT/CLAY: 0.35%  
SKEWNESS: -1.248 KURTOSIS: 1.457

GRAPHIC METHOD

MEAN (PHI): 1.82 SORTING: 0.90  
MEAN (mm): 0.28 MEDIAN (mm): 0.18

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.02 SORTING: 1.27  
MEAN (mm): 0.25

DATA FILE NAME: VC-99#88-5.TAB

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

SAMPLE NO.: VC-99#88-6  
SAMPLE ELEV. (FT. NGVD): 0.0  
SAMPLE DEPTH (FT.): 4.8  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 99.82  
SAMPLE WEIGHT AFTER WASH (GRAMS): 98.92

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	1.17	1.17	98.83
5	-2.00	4.000	3.94	3.95	96.05
7	-1.50	2.800	6.62	6.63	93.37
10	-1.00	2.000	9.44	9.46	90.54
14	-0.50	1.400	12.41	12.43	87.57
18	0.00	1.000	15.15	15.18	84.82
25	0.50	0.710	18.40	18.43	81.57
35	1.00	0.500	22.42	22.46	77.54
45	1.50	0.355	25.51	25.56	74.44
60	2.00	0.250	30.04	30.09	69.91
80	2.50	0.180	38.74	38.81	61.19
120	3.00	0.125	80.83	80.98	19.02
170	3.50	0.090	98.53	98.71	1.29
200	3.75	0.075	98.83	99.01	0.99
230	4.00	0.063	99.35	99.53	0.47
PAN			99.81	99.99	0.01

PHI(5): -1.80 PHI(16): 0.13 PHI(25): 1.41  
PHI(50): 2.63 PHI(75): 2.93 PHI(84): 3.09  
PHI(95): 3.40

SIEVE LOSS(g): 0.01 SILT/CLAY: 0.99%  
SKEWNESS: -1.242 KURTOSIS: 1.403

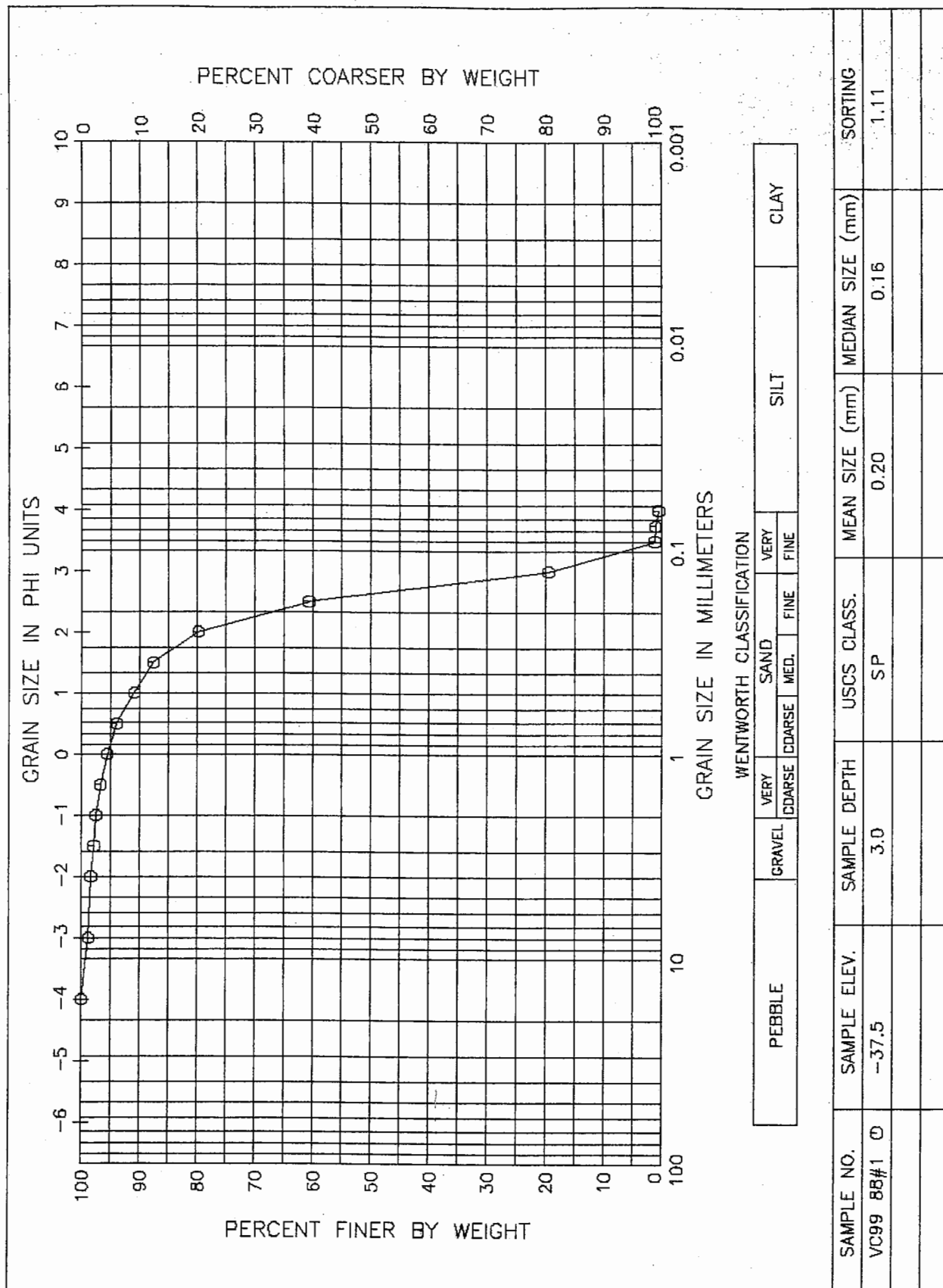
GRAPHIC METHOD

MEAN (PHI): 1.49 SORTING: 1.48  
MEAN (mm): 0.36 MEDIAN (mm): 0.16  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

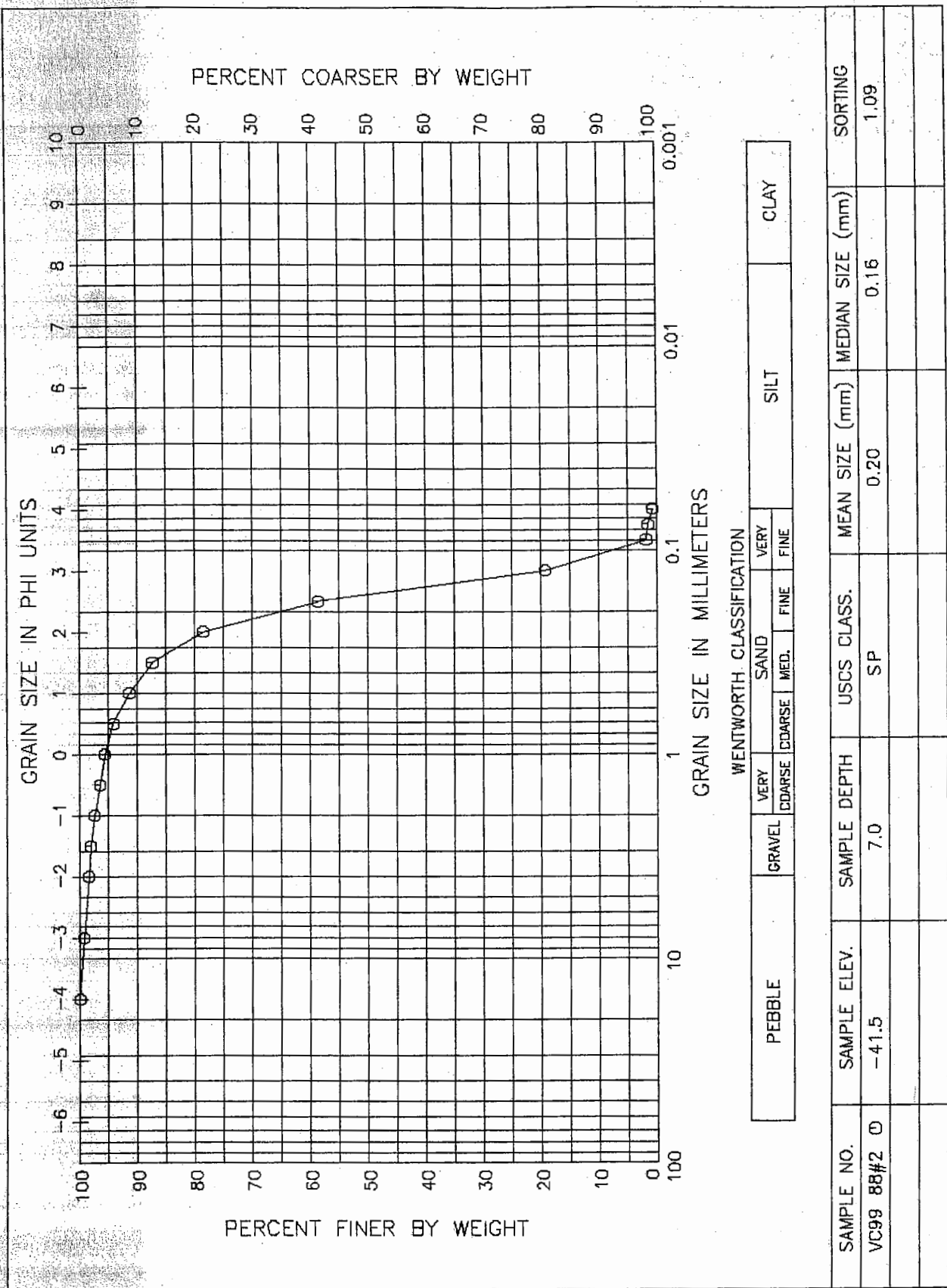
MOMENT METHOD

MEAN (PHI): 1.91 SORTING: 1.64  
MEAN (mm): 0.27

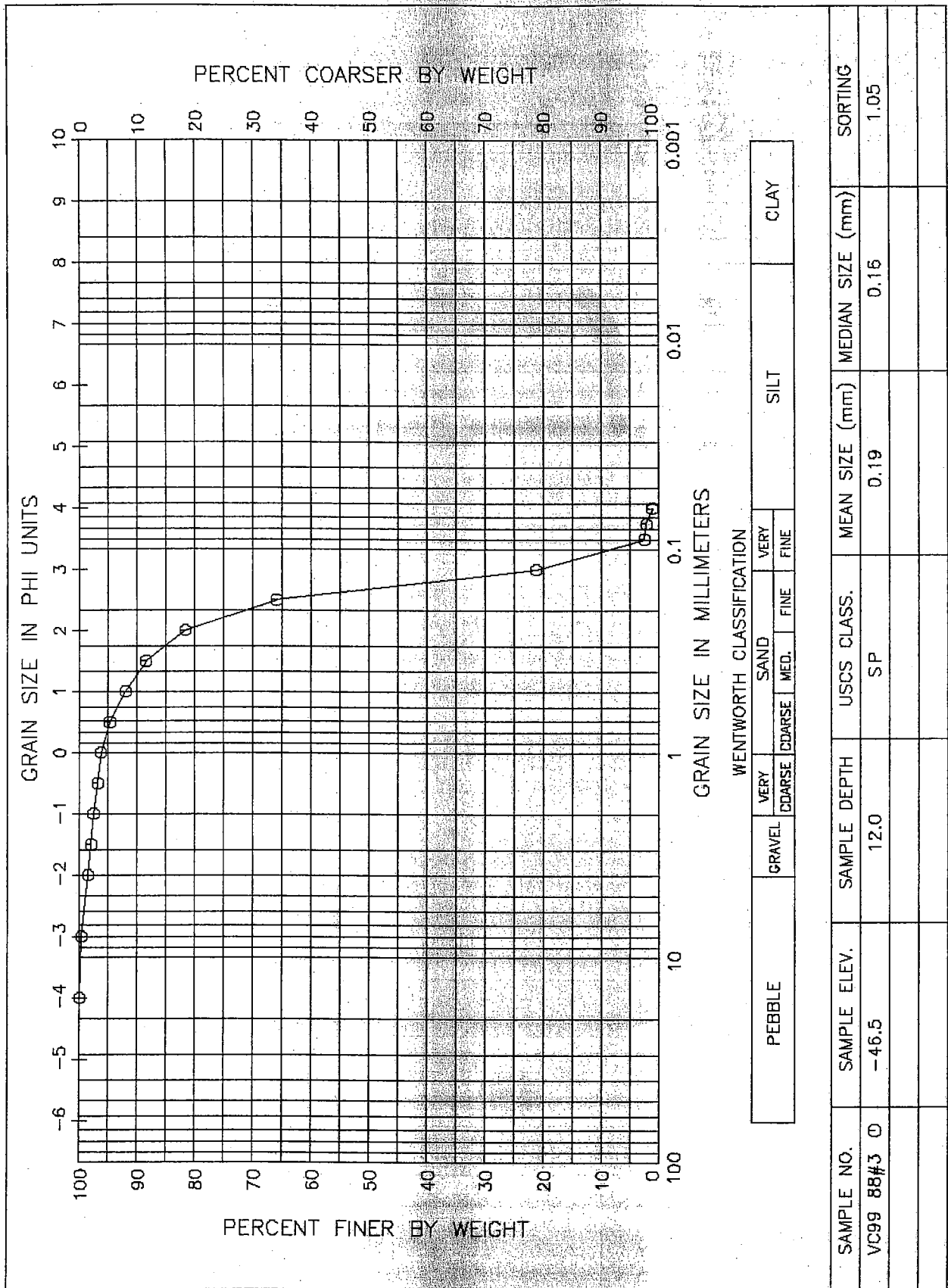
DATA FILE NAME: VC-99#88-6.TAB



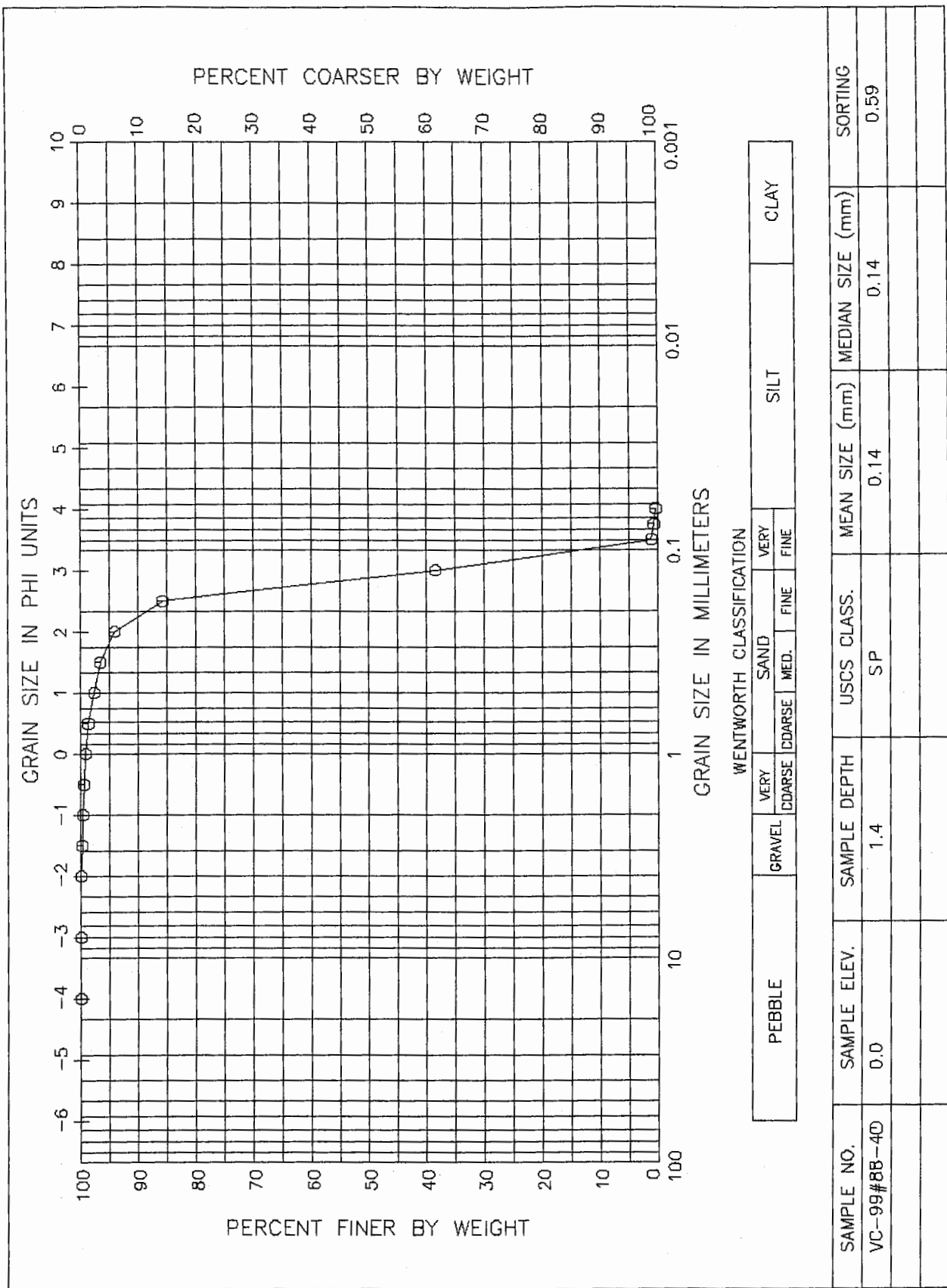
GRAIN SIZE DISTRIBUTION CURVE  
TOWN OF PALM BEACH

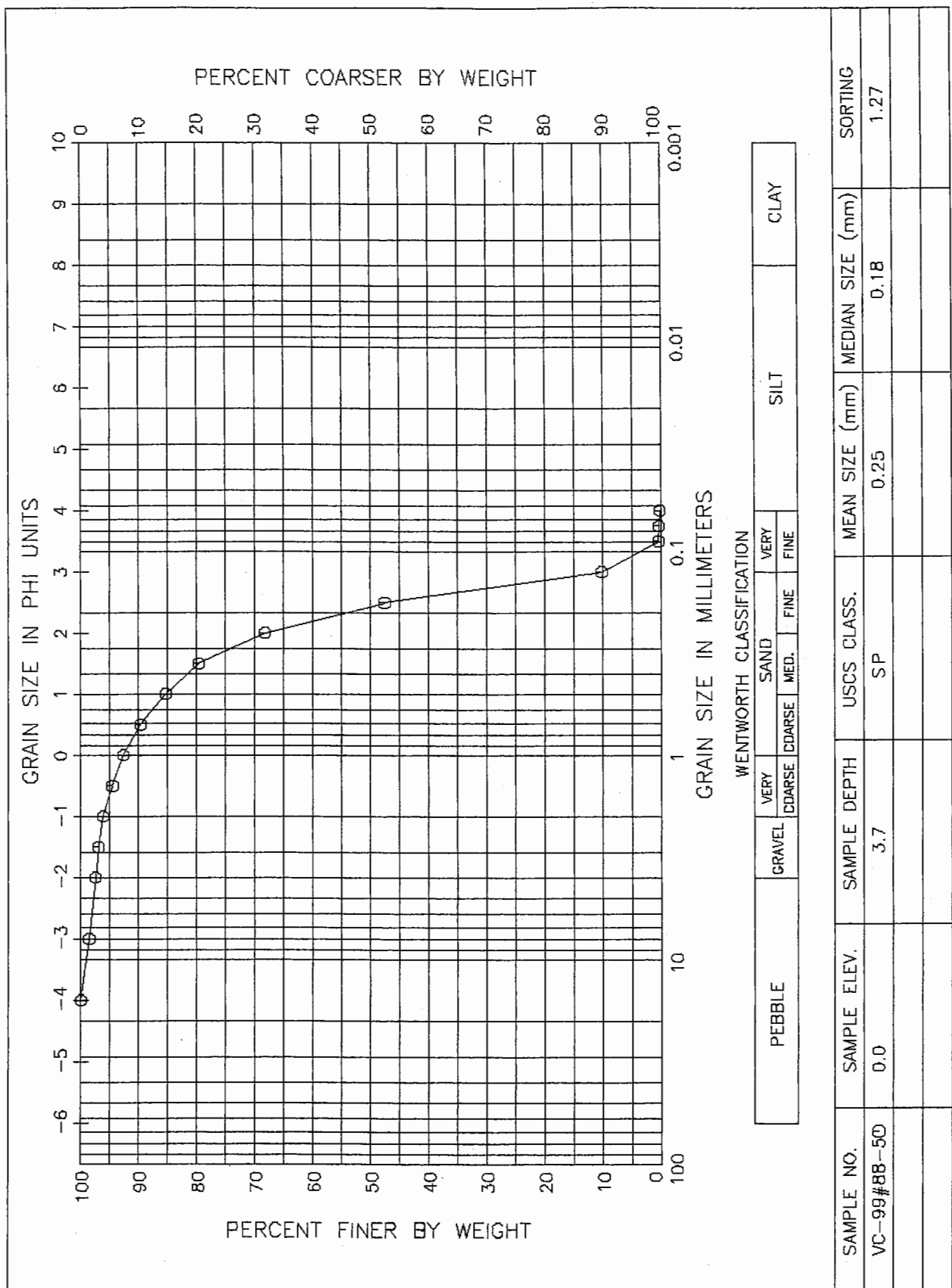


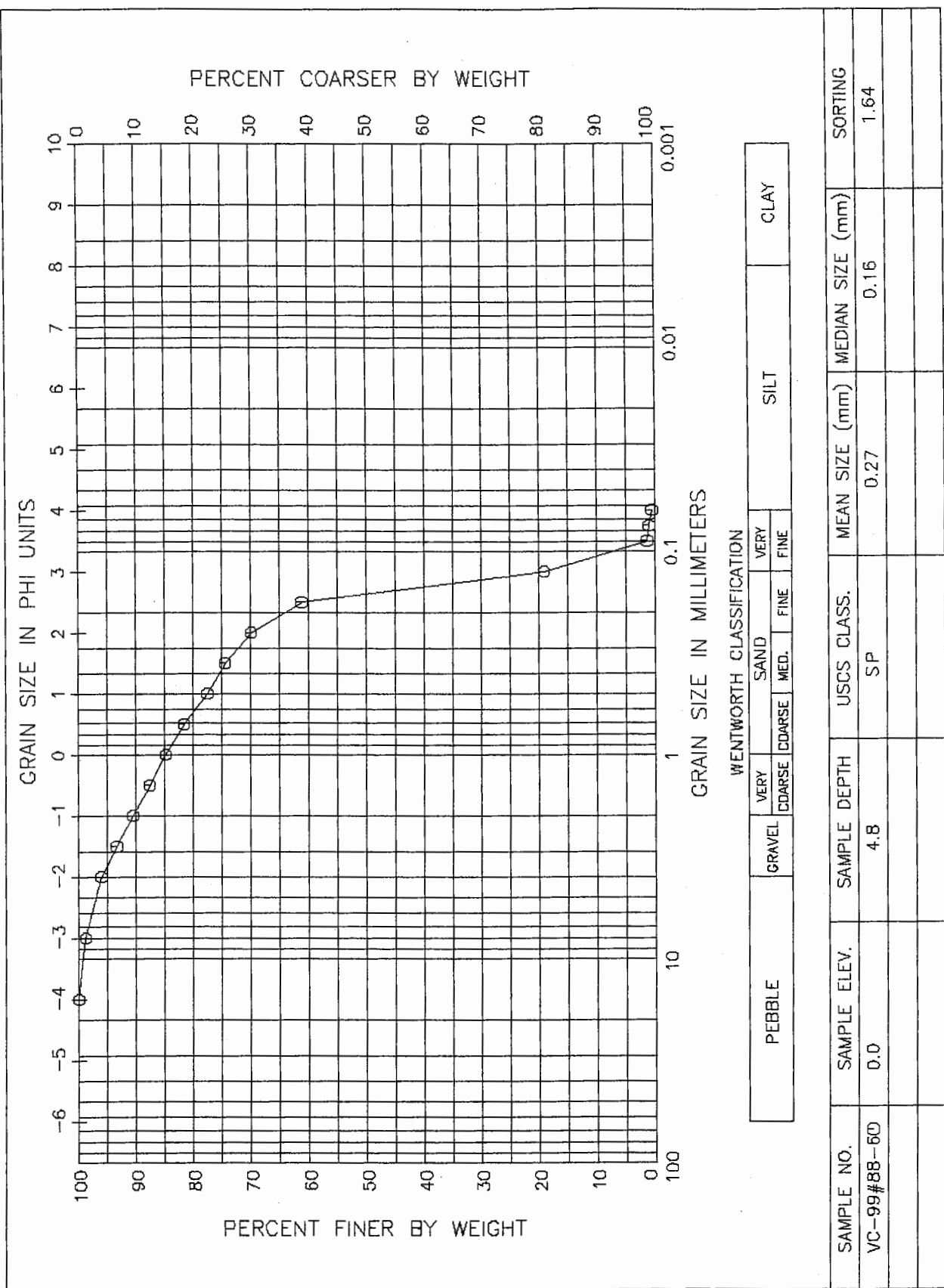




GRAIN SIZE DISTRIBUTION CURVE  
TOWN OF PALM BEACH







GRAIN SIZE DISTRIBUTION CURVE  
TOWN OF PALM BEACH