

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

SAMPLE NO.: VC99 4#1  
SAMPLE ELEV. (FT. NGVD): -37.9  
SAMPLE DEPTH (FT.): 1.5  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 93.39  
SAMPLE WEIGHT AFTER WASH (GRAMS): 90.35

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	0.00	0.00	100.00
7	-1.50	2.800	0.00	0.00	100.00
10	-1.00	2.000	0.11	0.12	99.88
14	-0.50	1.400	0.28	0.30	99.70
18	0.00	1.000	0.57	0.61	99.39
25	0.50	0.710	1.10	1.18	98.82
35	1.00	0.500	2.59	2.77	97.23
45	1.50	0.355	5.70	6.10	93.90
60	2.00	0.250	12.30	13.17	86.83
80	2.50	0.180	27.76	29.72	70.28
120	3.00	0.125	69.97	74.92	25.08
170	3.50	0.090	88.99	95.29	4.71
200	3.75	0.075	90.24	96.63	3.37
230	4.00	0.063	91.85	98.35	1.65
PAN			93.38	99.99	0.01

PHI(5): 1.33 PHI(16): 2.09 PHI(25): 2.36  
PHI(50): 2.72 PHI(75): 3.00 PHI(84): 3.22  
PHI(95): 3.49

SIEVE LOSS(g): 0.01 SILT/CLAY: 3.37%  
SKEWNESS: -0.546 KURTOSIS: 1.372

GRAPHIC METHOD

MEAN (PHI): 2.57 SORTING: 0.57  
MEAN (mm): 0.17 MEDIAN (mm): 0.15  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.61 SORTING: 0.65  
MEAN (mm): 0.16

DATA FILE NAME: VC99-4#1.TAB

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

SAMPLE NO.: VC99 4#2  
SAMPLE ELEV. (FT. NGVD): -41.1  
SAMPLE DEPTH (FT.): 4.7  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 96.74  
SAMPLE WEIGHT AFTER WASH (GRAMS): 95.45

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	1.57	1.62	98.38
7	-1.50	2.800	3.72	3.85	96.15
10	-1.00	2.000	6.23	6.44	93.56
14	-0.50	1.400	11.28	11.66	88.34
18	0.00	1.000	18.86	19.50	80.50
25	0.50	0.710	29.70	30.70	69.30
35	1.00	0.500	47.54	49.14	50.86
45	1.50	0.355	58.10	60.06	39.94
60	2.00	0.250	67.50	69.77	30.23
80	2.50	0.180	75.30	77.84	22.16
120	3.00	0.125	87.10	90.04	9.96
170	3.50	0.090	95.01	98.21	1.79
200	3.75	0.075	95.26	98.47	1.53
230	4.00	0.063	95.99	99.23	0.77
PAN			96.66	99.92	0.08

PHI(5): -1.28 PHI(16): -0.22 PHI(25): 0.25  
PHI(50): 1.04 PHI(75): 2.32 PHI(84): 2.75  
PHI(95): 3.30

SIEVE LOSS(g): 0.08 SILT/CLAY: 1.53%  
SKEWNESS: -0.018 KURTOSIS: 0.903

GRAPHIC METHOD

MEAN (PHI): 1.12 SORTING: 1.49  
MEAN (mm): 0.46 MEDIAN (mm): 0.49  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.13 SORTING: 1.38  
MEAN (mm): 0.46

DATA FILE NAME: VC99-4#2.TAB

## GRADATION ANALYSIS REPORT

TOWN OF PALM BEACH

TESTED BY: RW ON: 5/99

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SAMPLE NO.: VC99 4#3

SAMPLE ELEV. (FT. NGVD): -43.9

SAMPLE DEPTH (FT.): 7.5

SAMPLE TYPE: CORE SAMPLE  
-----USCS DESCRIPTION: SP  
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DRY SAMPLE WEIGHT (GRAMS): 92.11

SAMPLE WEIGHT AFTER WASH (GRAMS): 90.32  
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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	0.31	0.34	99.66
7	-1.50	2.800	0.97	1.05	98.95
10	-1.00	2.000	1.89	2.05	97.95
14	-0.50	1.400	4.65	5.05	94.95
18	0.00	1.000	16.67	18.10	81.90
25	0.50	0.710	31.29	33.97	66.03
35	1.00	0.500	46.64	50.64	49.36
45	1.50	0.355	58.60	63.62	36.38
60	2.00	0.250	68.51	74.38	25.62
80	2.50	0.180	84.60	91.85	8.15
120	3.00	0.125	89.99	97.70	2.30
170	3.50	0.090	90.26	97.99	2.01
200	3.75	0.075	90.29	98.02	1.98
230	4.00	0.063	91.20	99.01	0.99
PAN			92.10	99.99	0.01

  
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PHI (5): -0.51

PHI (16): -0.08

PHI (25): 0.22

PHI (50): 0.98

PHI (75): 2.02

PHI (84): 2.28

PHI (95): 2.77  
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SIEVE LOSS(g): 0.01

SILT/CLAY: 1.98%

SKEWNESS: 0.127

KURTOSIS: 0.746  
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## GRAPHIC METHOD

MEAN (PHI): 1.09

SORTING: 1.18

MEAN (mm): 0.47

MEDIAN (mm): 0.51

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  
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## MOMENT METHOD

MEAN (PHI): 1.04

SORTING: 1.08

MEAN (mm): 0.49  
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DATA FILE NAME: VC99-4#3.TAB

GRADATION ANALYSIS REPORT  
TOWN OF PALM BEACH 4/99  
TESTED BY: ID ON: 4/99

SAMPLE NO.: VC99 4#4  
SAMPLE ELEV. (FT. NGVD): -47.2  
SAMPLE DEPTH (FT.): 10.8  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 96.01  
SAMPLE WEIGHT AFTER WASH (GRAMS): 94.53

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	0.00	0.00	100.00
5	-2.00	4.000	0.68	0.71	99.29
7	-1.50	2.800	2.17	2.26	97.74
10	-1.00	2.000	3.26	3.40	96.60
14	-0.50	1.400	5.95	6.20	93.80
18	0.00	1.000	10.63	11.07	88.93
25	0.50	0.710	17.14	17.85	82.15
35	1.00	0.500	27.18	28.31	71.69
45	1.50	0.355	34.22	35.64	64.36
60	2.00	0.250	42.58	44.35	55.65
80	2.50	0.180	51.52	53.66	46.34
120	3.00	0.125	76.43	79.61	20.39
170	3.50	0.090	94.04	97.95	2.05
200	3.75	0.075	94.49	98.42	1.58
230	4.00	0.063	95.26	99.22	0.78
PAN			96.01	100.00	0.00

PHI(5): -0.71 PHI(16): 0.36 PHI(25): 0.84  
PHI(50): 2.30 PHI(75): 2.91 PHI(84): 3.12  
PHI(95): 3.42

SIEVE LOSS(g): 0.00 SILT/CLAY: 1.58%  
SKEWNESS: -0.690 KURTOSIS: 0.819

GRAPHIC METHOD

MEAN (PHI): 1.70 SORTING: 1.38  
MEAN (mm): 0.31 MEDIAN (mm): 0.20

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.83 SORTING: 1.35  
MEAN (mm): 0.28

DATA FILE NAME: VC99-4#4.TAB

## GRADATION ANALYSIS REPORT

TOWN OF PALM BEACH

TESTED BY: RW ON: 4/99

SAMPLE NO.: VC99 4#5

SAMPLE ELEV. (FT. NGVD): -47.7

SAMPLE DEPTH (FT.): 11.3

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SW

DRY SAMPLE WEIGHT (GRAMS): 89.31

SAMPLE WEIGHT AFTER WASH (GRAMS): 87.19

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	2.97	3.33	96.67
7	-1.50	2.800	6.16	6.90	93.10
10	-1.00	2.000	10.93	12.24	87.76
14	-0.50	1.400	19.55	21.89	78.11
18	0.00	1.000	30.28	33.90	66.10
25	0.50	0.710	41.80	46.80	53.20
35	1.00	0.500	55.39	62.02	37.98
45	1.50	0.355	63.29	70.87	29.13
60	2.00	0.250	70.80	79.27	20.73
80	2.50	0.180	75.75	84.82	15.18
120	3.00	0.125	82.25	92.09	7.91
170	3.50	0.090	86.96	97.37	2.63
200	3.75	0.075	87.17	97.60	2.40
230	4.00	0.063	88.25	98.81	1.19
PAN			89.31	100.00	0.00

PHI (5): -1.77

PHI (16): -0.81

PHI (25): -0.37

PHI (50): 0.61

PHI (75): 1.75

PHI (84): 2.43

PHI (95): 3.28

SIEVE LOSS (g): 0.00

SILT/CLAY: 2.40%

SKEWNESS: 0.093

KURTOSIS: 0.976

## GRAPHIC METHOD

MEAN (PHI): 0.75

SORTING: 1.62

MEAN (mm): 0.60

MEDIAN (mm): 0.66

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

## MOMENT METHOD

MEAN (PHI): 0.65

SORTING: 1.47

MEAN (mm): 0.64

DATA FILE NAME: VC99-4#5.TAB

GRADATION ANALYSIS REPORT  
TOWN OF PALM BEACH 4/99  
TESTED BY: ID ON: 4/99

SAMPLE NO.: VC99 4#6  
SAMPLE ELEV. (FT. NGVD): -48.9  
SAMPLE DEPTH (FT.): 12.5  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 78.21  
SAMPLE WEIGHT AFTER WASH (GRAMS): 76.35

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	0.00	0.00	100.00
7	-1.50	2.800	0.19	0.24	99.76
10	-1.00	2.000	0.52	0.66	99.34
14	-0.50	1.400	1.09	1.39	98.61
18	0.00	1.000	1.86	2.38	97.62
25	0.50	0.710	2.88	3.68	96.32
35	1.00	0.500	4.97	6.35	93.65
45	1.50	0.355	7.61	9.73	90.27
60	2.00	0.250	13.64	17.44	82.56
80	2.50	0.180	24.36	31.15	68.85
120	3.00	0.125	49.90	63.80	36.20
170	3.50	0.090	75.55	96.60	3.40
200	3.75	0.075	76.31	97.57	2.43
230	4.00	0.063	77.27	98.80	1.20
PAN			78.21	100.00	0.00

PHI(5): 0.75 PHI(16): 1.91 PHI(25): 2.28  
PHI(50): 2.79 PHI(75): 3.17 PHI(84): 3.31  
PHI(95): 3.48

SIEVE LOSS(g): 0.00 SILT/CLAY: 2.43%  
SKEWNESS: -0.967 KURTOSIS: 1.250

GRAPHIC METHOD

MEAN (PHI): 2.45 SORTING: 0.70  
MEAN (mm): 0.18 MEDIAN (mm): 0.14  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.57 SORTING: 0.87  
MEAN (mm): 0.17

DATA FILE NAME: VC99-4#6.TAB

GRADATION ANALYSIS REPORT  
TOWN OF PALM BEACH  
TESTED BY: RW ON: 4/99

SAMPLE NO.: VC99 4#7  
SAMPLE ELEV. (FT. NGVD): -49.6  
SAMPLE DEPTH (FT.): 13.2  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 90.04  
SAMPLE WEIGHT AFTER WASH (GRAMS): 88.38

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	0.24	0.27	99.73
7	-1.50	2.800	0.30	0.33	99.67
10	-1.00	2.000	0.46	0.51	99.49
14	-0.50	1.400	0.77	0.86	99.14
18	0.00	1.000	1.11	1.23	98.77
25	0.50	0.710	1.56	1.73	98.27
35	1.00	0.500	2.48	2.75	97.25
45	1.50	0.355	4.10	4.55	95.45
60	2.00	0.250	11.52	12.79	87.21
80	2.50	0.180	28.81	32.00	68.00
120	3.00	0.125	62.44	69.35	30.65
170	3.50	0.090	87.77	97.48	2.52
200	3.75	0.075	88.37	98.15	1.85
230	4.00	0.063	89.21	99.08	0.92
PAN			90.04	100.00	0.00

PHI(5): 1.53 PHI(16): 2.08 PHI(25): 2.32  
PHI(50): 2.74 PHI(75): 3.10 PHI(84): 3.26  
PHI(95): 3.46

SIEVE LOSS(g): 0.00 SILT/CLAY: 1.85%  
SKEWNESS: -0.424 KURTOSIS: 1.010

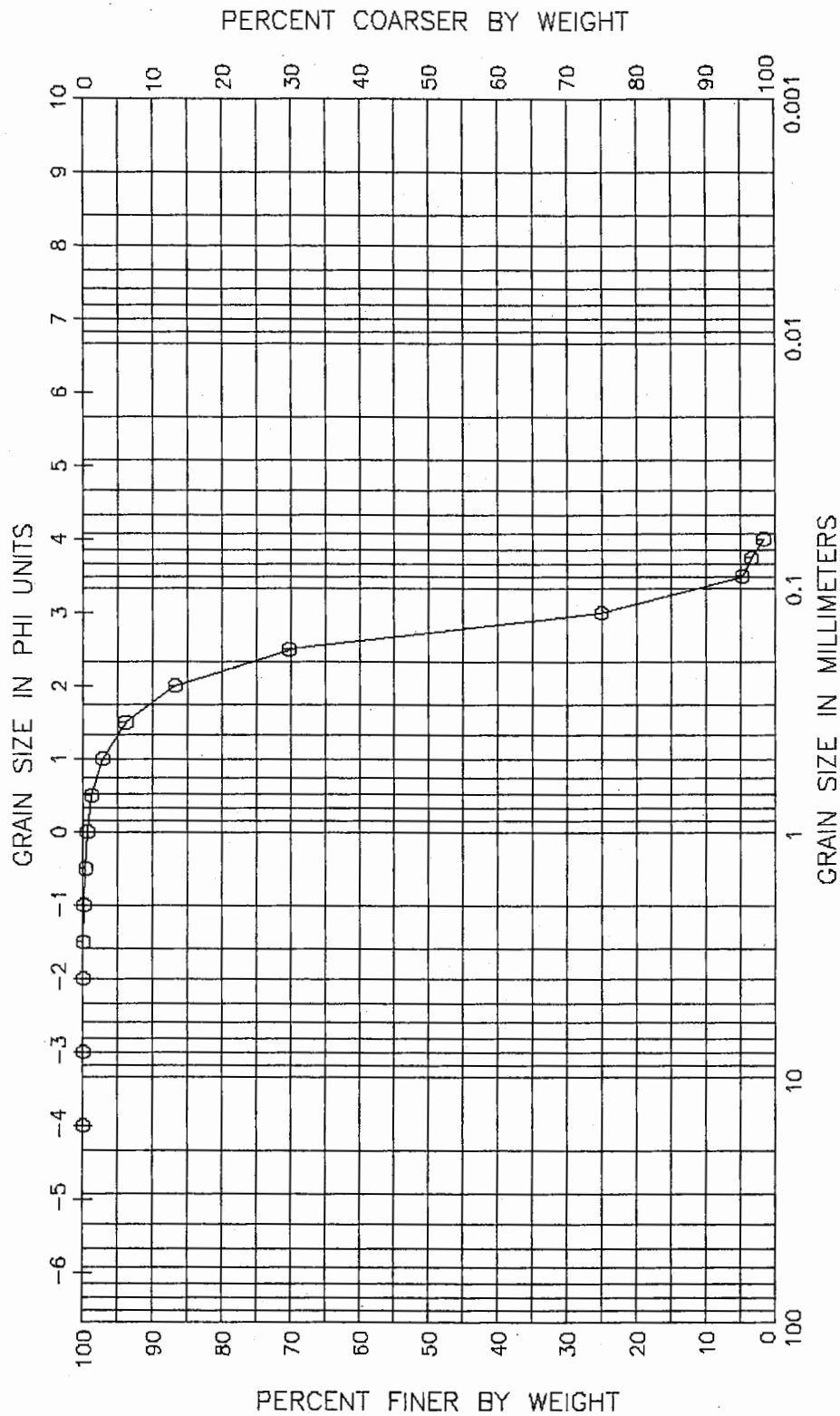
GRAPHIC METHOD

MEAN (PHI): 2.61 SORTING: 0.59  
MEAN (mm): 0.16 MEDIAN (mm): 0.15  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.62 SORTING: 0.71  
MEAN (mm): 0.16

DATA FILE NAME: VC99-4#7.TAB



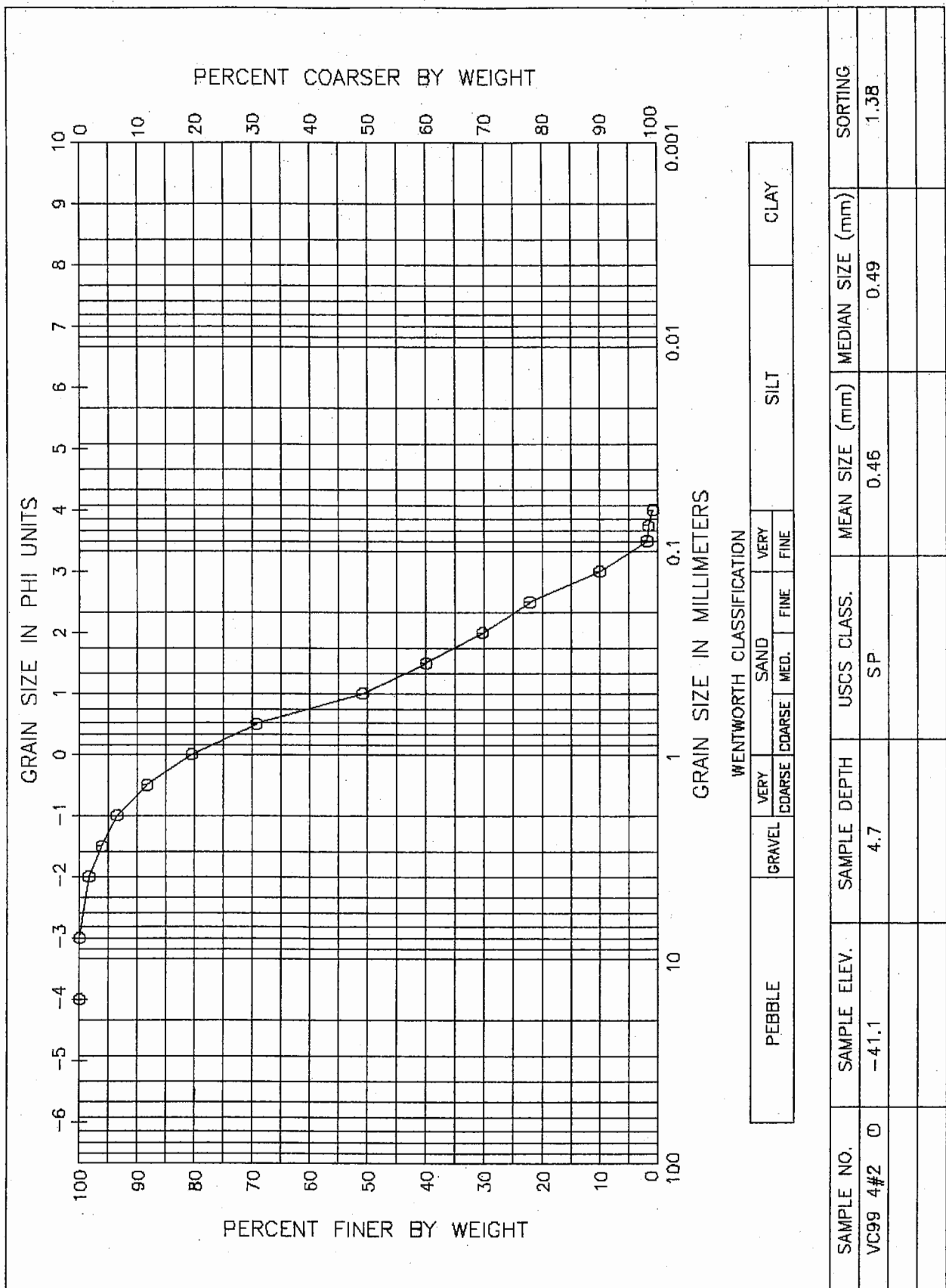
WENTWORTH CLASSIFICATION

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

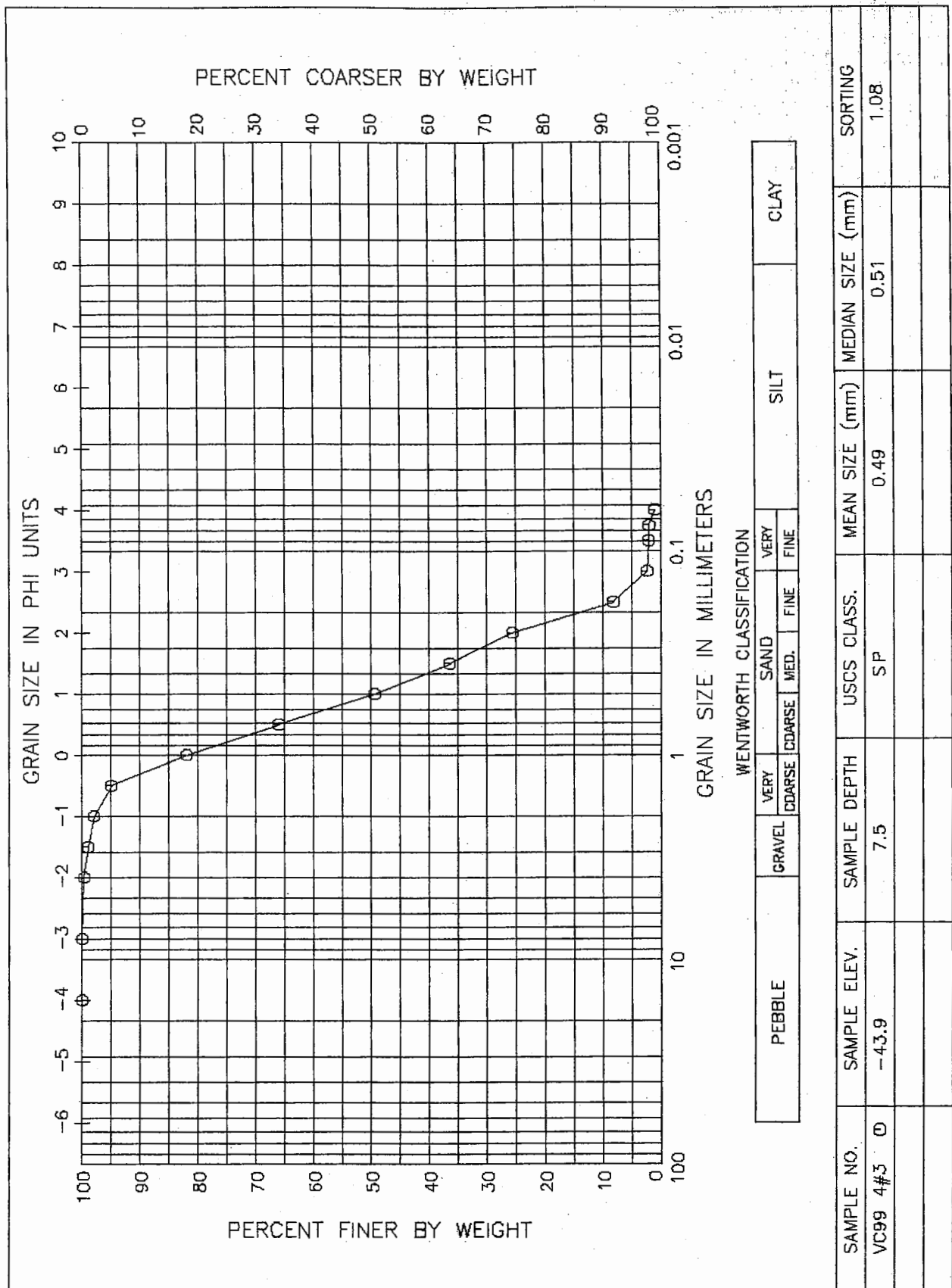
SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
VC99 4#1	-37.9	1.5	SP	0.16	0.15	0.65

GRAIN SIZE DISTRIBUTION CURVE  
TOWN OF PALM BEACH

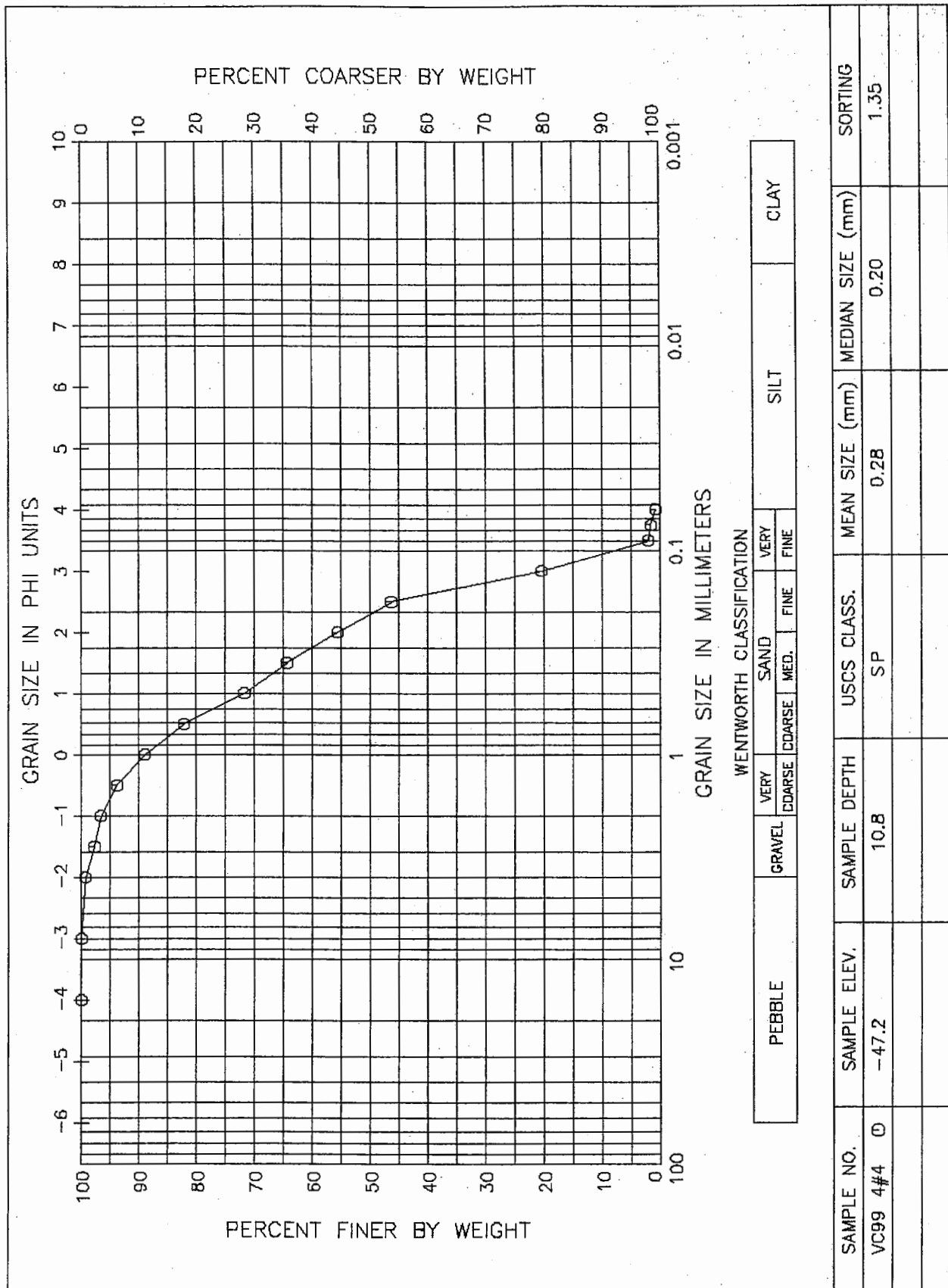


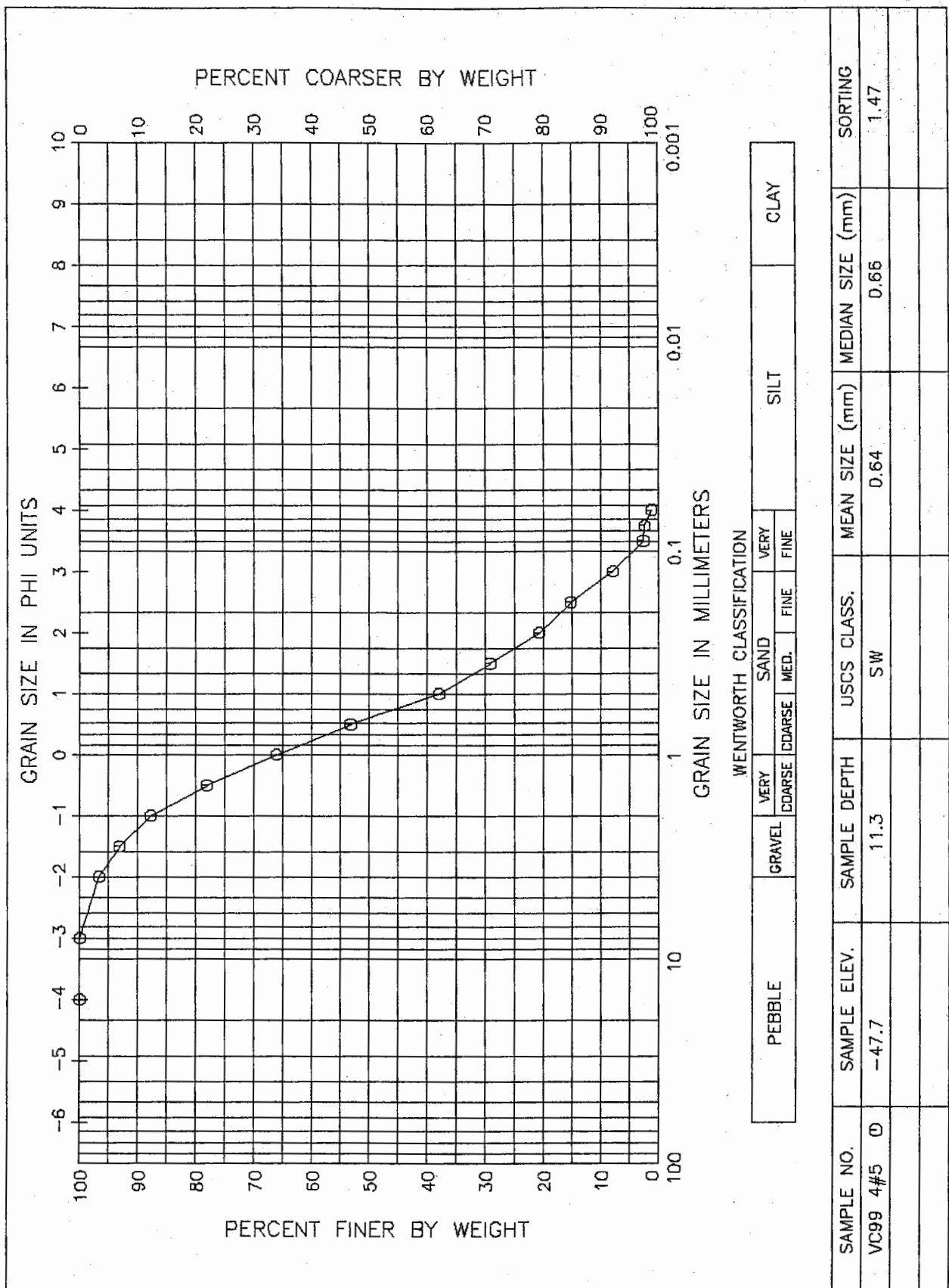


GRAIN SIZE DISTRIBUTION CURVE  
TOWN OF PALM BEACH



GRAIN SIZE DISTRIBUTION CURVE  
TOWN OF PALM BEACH





GRAIN SIZE DISTRIBUTION CURVE  
TOWN OF PALM BEACH

