

## GRADATION ANALYSIS REPORT

TOWN OF PALM BEACH

TESTED BY: RW ON: 7-19-99

SAMPLE NO.: VC99 34#1  
SAMPLE ELEV. (FT. NGVD): -41.6  
SAMPLE DEPTH (FT.): 1.0  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 237.81  
SAMPLE WEIGHT AFTER WASH (GRAMS): 235.09

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	4.17	1.75	98.25
5	-2.00	4.000	7.46	3.14	96.86
7	-1.50	2.800	9.11	3.83	96.17
10	-1.00	2.000	11.00	4.63	95.37
14	-0.50	1.400	13.99	5.88	94.12
18	0.00	1.000	17.13	7.20	92.80
25	0.50	0.710	21.53	9.05	90.95
35	1.00	0.500	28.38	11.93	88.07
45	1.50	0.355	36.58	15.38	84.62
60	2.00	0.250	52.17	21.94	78.06
80	2.50	0.180	88.20	37.09	62.91
120	3.00	0.125	188.36	79.21	20.79
170	3.50	0.090	225.58	94.86	5.14
200	3.75	0.075	234.79	98.73	1.27
230	4.00	0.063	236.35	99.39	0.61
PAN			237.79	99.99	0.01

PHI(5): -0.85      PHI(16): 1.55      PHI(25): 2.10  
PHI(50): 2.65      PHI(75): 2.95      PHI(84): 3.15  
PHI(95): 3.51

SIEVE LOSS(g): 0.02      SILT/CLAY: 1.27%  
SKEWNESS: -1.649      KURTOSIS: 2.105

## GRAPHIC METHOD

MEAN (PHI): 2.00      SORTING: 0.80  
MEAN (mm): 0.25      MEDIAN (mm): 0.16  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

## MOMENT METHOD

MEAN (PHI): 2.24      SORTING: 1.36  
MEAN (mm): 0.21

DATA FILE NAME: VC99-34#1.TAB

## GRADATION ANALYSIS REPORT

TOWN OF PALM BEACH

TESTED BY: RW

ON: 7-19-99

SAMPLE NO.: VC99 34#2

SAMPLE ELEV. (FT. NGVD): -45.0

SAMPLE DEPTH (FT.): 4.4

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 262.60

SAMPLE WEIGHT AFTER WASH (GRAMS): 259.30

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	0.17	0.06	99.94
7	-1.50	2.800	0.48	0.18	99.82
10	-1.00	2.000	1.04	0.40	99.60
14	-0.50	1.400	2.61	0.99	99.01
18	0.00	1.000	5.05	1.92	98.08
25	0.50	0.710	8.75	3.33	96.67
35	1.00	0.500	15.05	5.73	94.27
45	1.50	0.355	24.11	9.18	90.82
60	2.00	0.250	41.68	15.87	84.13
80	2.50	0.180	88.75	33.80	66.20
120	3.00	0.125	218.95	83.38	16.62
170	3.50	0.090	258.30	98.36	1.64
200	3.75	0.075	259.02	98.64	1.36
230	4.00	0.063	260.82	99.32	0.68
PAN			262.59	100.00	0.00

PHI (5): 0.85

PHI (16): 2.00

PHI (25): 2.25

PHI (50): 2.66

PHI (75): 2.92

PHI (84): 3.02

PHI (95): 3.39

SIEVE LOSS (g): 0.01

SILT/CLAY: 1.36%

SKEWNESS: -1.073

KURTOSIS: 1.575

## GRAPHIC METHOD

MEAN (PHI): 2.38

SORTING: 0.51

MEAN (mm): 0.19

MEDIAN (mm): 0.16

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

## MOMENT METHOD

MEAN (PHI): 2.48

SORTING: 0.76

MEAN (mm): 0.18

DATA FILE NAME: VC99-34#2.TAB

## GRADATION ANALYSIS REPORT

TOWN OF PALM BEACH

TESTED BY: RW

ON: 7-20-99

SAMPLE NO.: VC99 34#3

SAMPLE ELEV. (FT. NGVD): -47.6

SAMPLE DEPTH (FT.): 7.0

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS) † 228.26

SAMPLE WEIGHT AFTER WASH (GRAMS): 225.31

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	0.14	0.06	99.94
7	-1.50	2.800	0.19	0.08	99.92
10	-1.00	2.000	0.32	0.14	99.86
14	-0.50	1.400	0.57	0.25	99.75
18	0.00	1.000	0.98	0.43	99.57
25	0.50	0.710	1.63	0.71	99.29
35	1.00	0.500	2.84	1.24	98.76
45	1.50	0.355	5.15	2.26	97.74
60	2.00	0.250	13.07	5.73	94.27
80	2.50	0.180	44.65	19.56	80.44
120	3.00	0.125	170.79	74.82	25.18
170	3.50	0.090	210.86	92.38	7.62
200	3.75	0.075	225.03	98.58	1.42
230	4.00	0.063	226.67	99.31	0.69
PAN			228.26	100.00	0.00

PHI(5): 1.90

PHI(16): 2.37

PHI(25): 2.55

PHI(50): 2.78

PHI(75): 3.01

PHI(84): 3.26

PHI(95): 3.61

SIEVE LOSS(g): 0.00

SILT/CLAY: 1.42%

SKEWNESS: -0.056

KURTOSIS: 1.538

## GRAPHIC METHOD

MEAN (PHI): 2.78

SORTING: 0.45

MEAN (mm): 0.15

MEDIAN (mm): 0.15

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

## MOMENT METHOD

MEAN (PHI): 2.75

SORTING: 0.54

MEAN (mm): 0.15

DATA FILE NAME: VC99-34#3.TAB

## GRADATION ANALYSIS REPORT

TOWN OF PALM BEACH

TESTED BY: RW

ON: 7-20-99

SAMPLE NO.: VC99 34#4

SAMPLE ELEV. (FT. NGVD): -53.6

SAMPLE DEPTH (FT.): 13.0

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 216.90

SAMPLE WEIGHT AFTER WASH (GRAMS): 212.54

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	1.32	0.61	99.39
7	-1.50	2.800	2.78	1.28	98.72
10	-1.00	2.000	4.36	2.01	97.99
14	-0.50	1.400	5.91	2.72	97.28
18	0.00	1.000	7.16	3.30	96.70
25	0.50	0.710	8.46	3.90	96.10
35	1.00	0.500	10.76	4.96	95.04
45	1.50	0.355	14.97	6.90	93.10
60	2.00	0.250	26.47	12.20	87.80
80	2.50	0.180	64.21	29.60	70.40
120	3.00	0.125	167.40	77.18	22.82
170	3.50	0.090	210.85	97.21	2.79
200	3.75	0.075	211.85	97.67	2.33
230	4.00	0.063	214.43	98.86	1.14
PAN			216.88	99.99	0.01

PHI (5): 1.01

PHI (16): 2.11

PHI (25): 2.37

PHI (50): 2.71

PHI (75): 2.98

PHI (84): 3.17

PHI (95): 3.44

SIEVE LOSS (g): 0.02

SILT/CLAY: 2.33%

SKEWNESS: -0.918

KURTOSIS: 1.637

## GRAPHIC METHOD

MEAN (PHI): 2.49

SORTING: 0.53

MEAN (mm): 0.18

MEDIAN (mm): 0.15

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

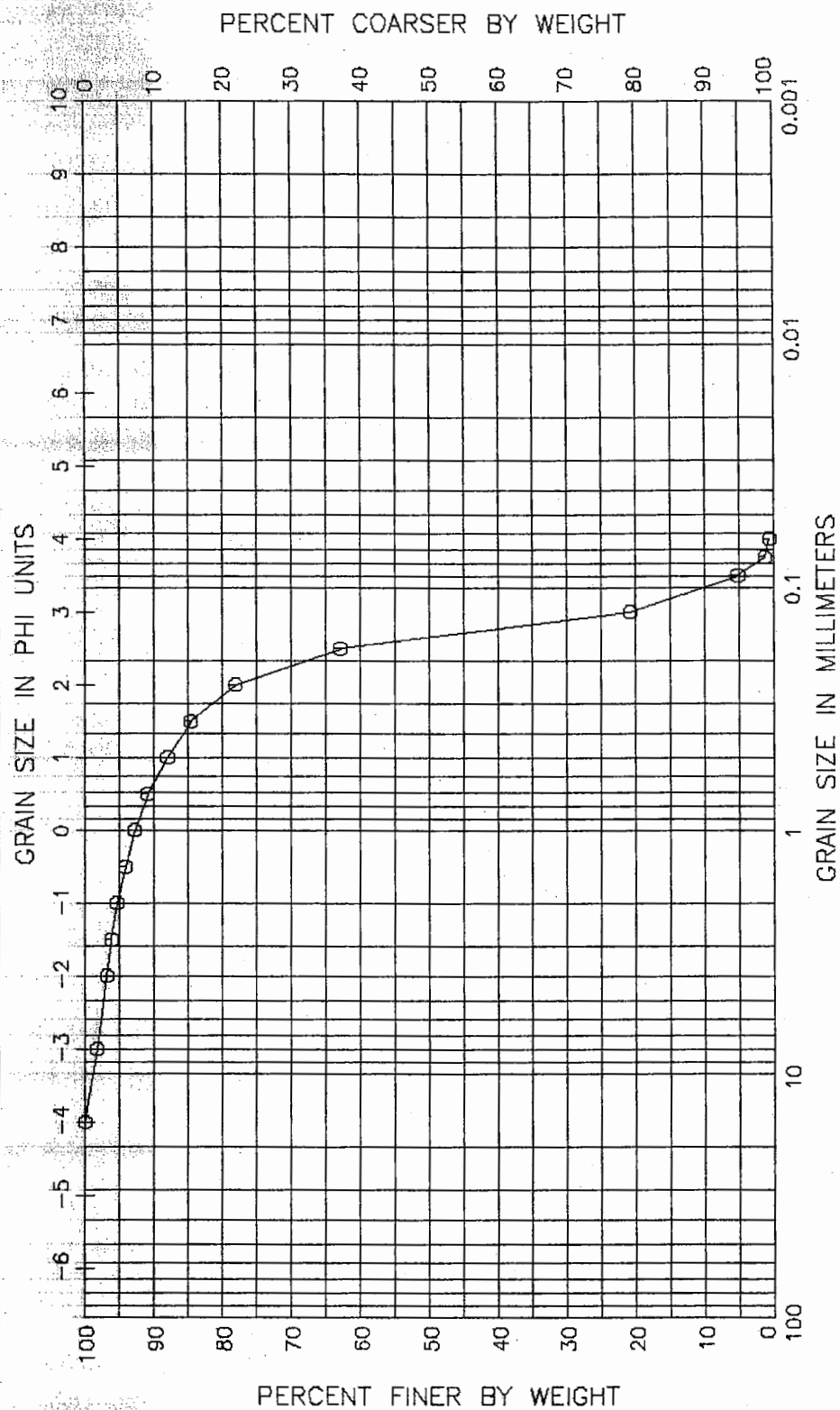
## MOMENT METHOD

MEAN (PHI): 2.53

SORTING: 0.90

MEAN (mm): 0.17

DATA FILE NAME: VC99-34#4.TAB

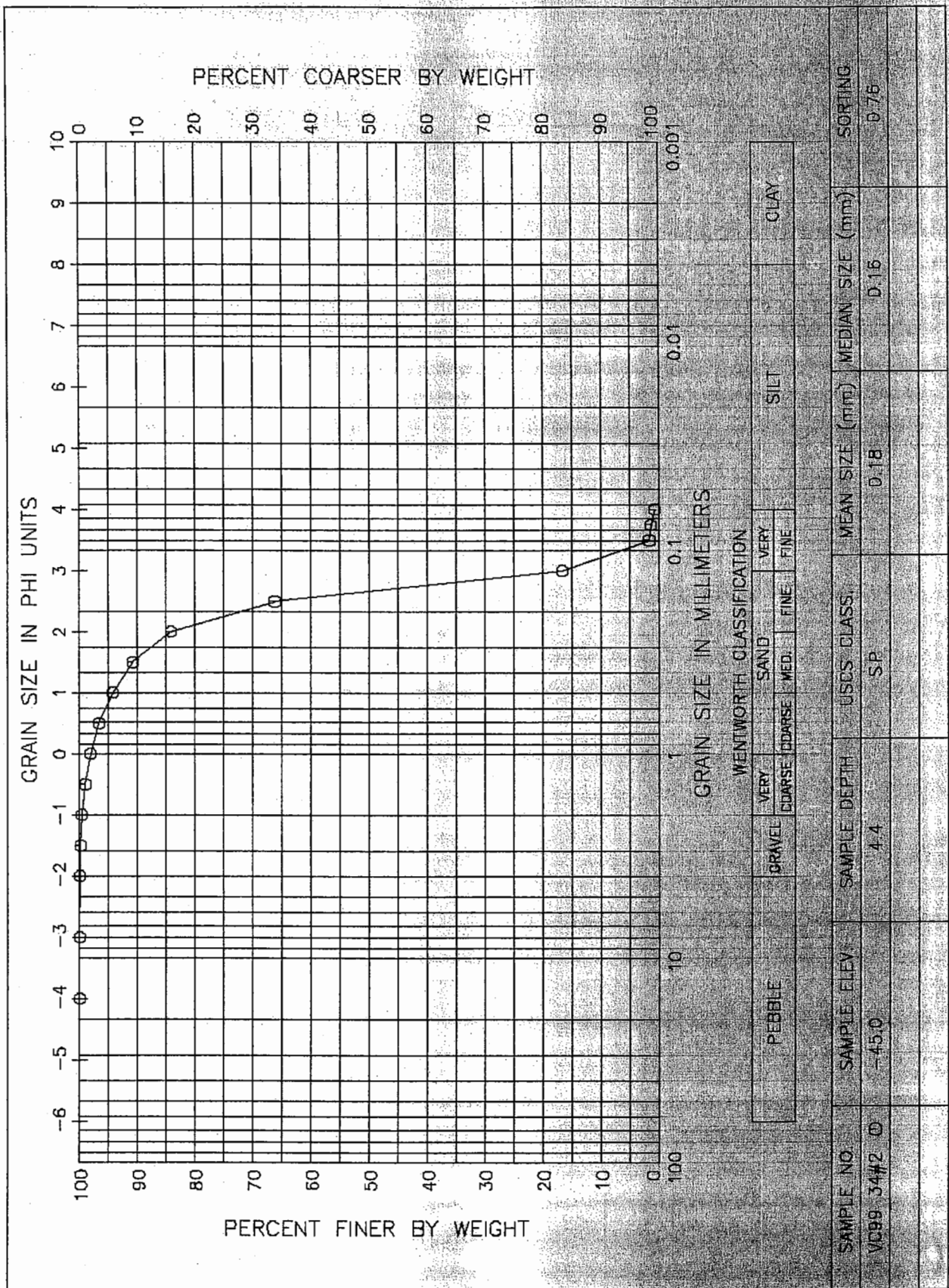


WENTWORTH CLASSIFICATION

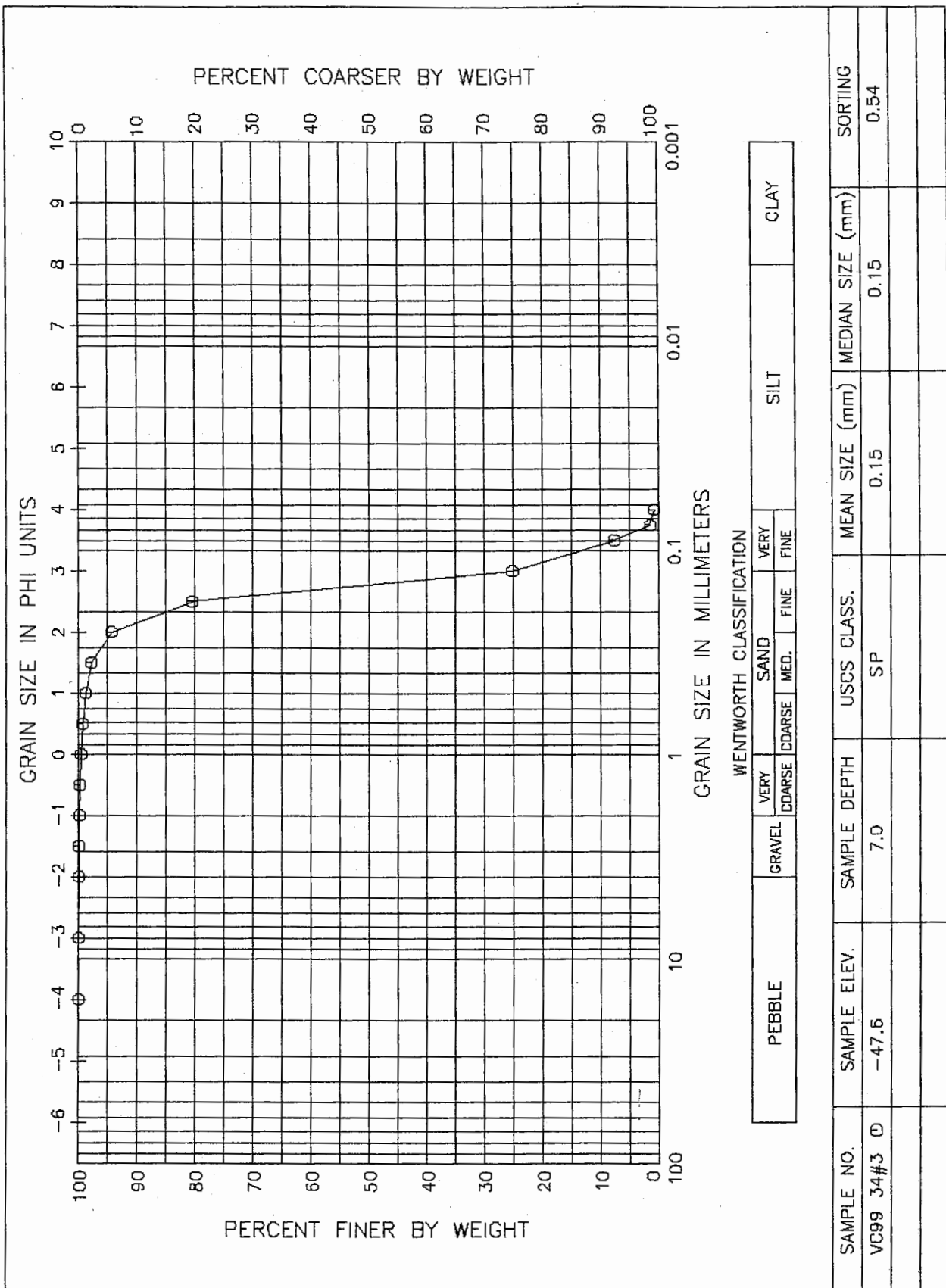
WENTWORTH CLASSIFICATION							
PEBBLE	GRAVEL	SAND			SILT		CLAY
		VERY COARSE	COARSE	MED. FINE	VERY FINE		

SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
VC99 34#1	-41.6	1.0	SP	0.21	0.16	1.36

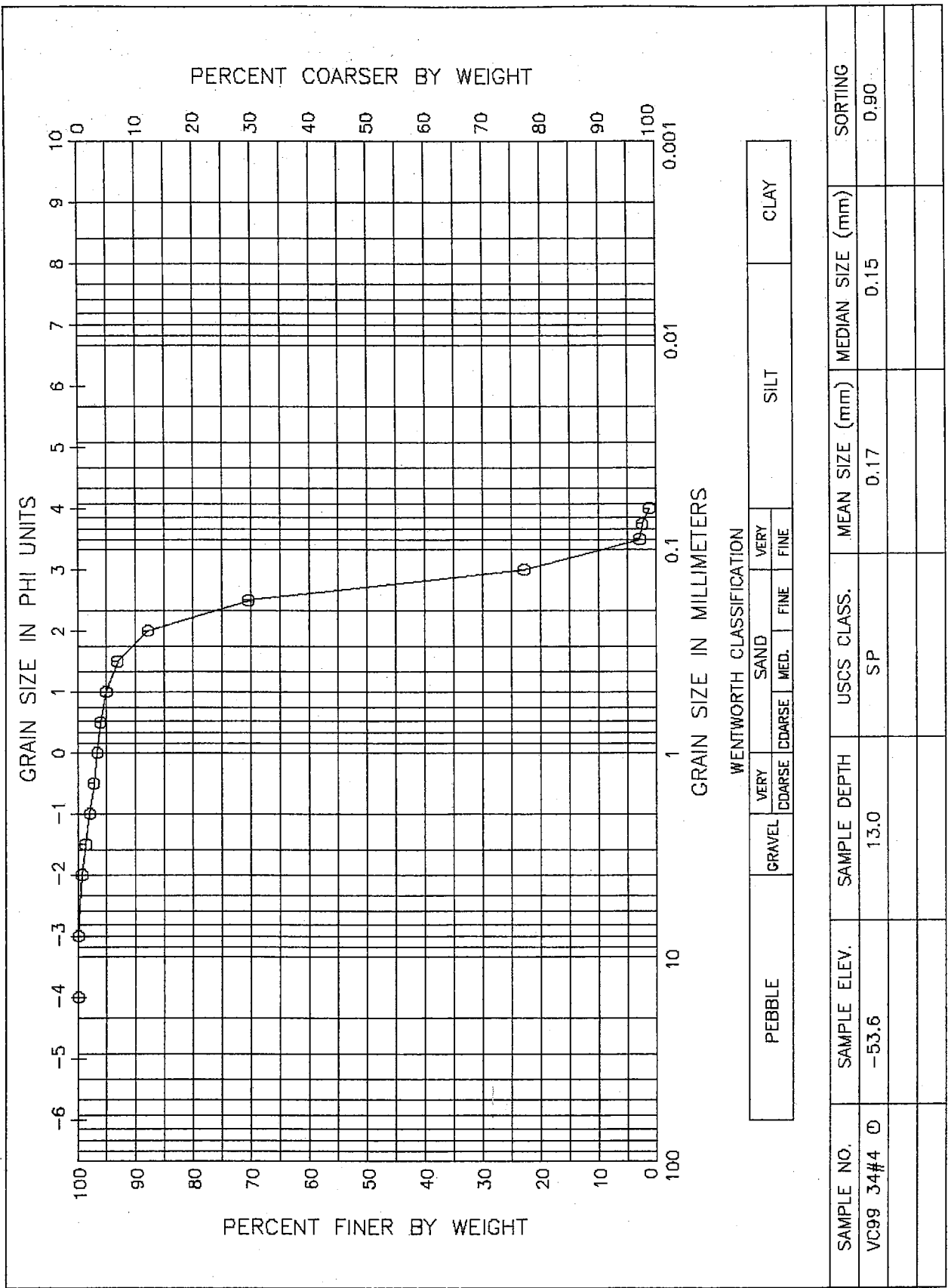
GRAIN SIZE DISTRIBUTION CURVE  
TOWN OF PALM BEACH



GRAIN SIZE DISTRIBUTION CURVE  
TOWN OF PALM BEACH



GRAIN SIZE DISTRIBUTION CURVE  
TOWN OF PALM BEACH



GRAIN SIZE DISTRIBUTION CURVE  
TOWN OF PALM BEACH