

## GRADATION ANALYSIS REPORT

TOWN OF PALM BEACH

TESTED BY: RW

ON: 7-20-99

SAMPLE NO.: VC99 43R1#1

SAMPLE ELEV. (FT. NGVD): -30.1

SAMPLE DEPTH (FT.): 1.3

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 109.21

SAMPLE WEIGHT AFTER WASH (GRAMS): 108.06

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	0.84	0.77	99.23
7	-1.50	2.800	1.59	1.46	98.54
10	-1.00	2.000	3.13	2.87	97.13
14	-0.50	1.400	6.11	5.59	94.41
18	0.00	1.000	10.15	9.29	90.71
25	0.50	0.710	15.92	14.58	85.42
35	1.00	0.500	27.22	24.92	75.08
45	1.50	0.355	38.86	35.58	64.42
60	2.00	0.250	46.61	42.68	57.32
80	2.50	0.180	55.23	50.57	49.43
120	3.00	0.125	83.00	76.00	24.00
170	3.50	0.090	107.16	98.12	1.88
200	3.75	0.075	107.93	98.83	1.17
230	4.00	0.063	108.62	99.46	0.54
PAN			109.21	100.00	0.00

PHI(5): -0.61

PHI(16): 0.57

PHI(25): 1.00

PHI(50): 2.46

PHI(75): 2.98

PHI(84): 3.18

PHI(95): 3.43

SIEVE LOSS(g): 0.00

SILT/CLAY: 1.17%

SKEWNESS: -0.807

KURTOSIS: 0.837

## GRAPHIC METHOD

MEAN (PHI): 1.81

SORTING: 1.31

MEAN (mm): 0.29

MEDIAN (mm): 0.18

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

## MOMENT METHOD

MEAN (PHI): 1.93

SORTING: 1.31

MEAN (mm): 0.26

DATA FILE NAME: VC99-43R1#1.TAB

## GRADATION ANALYSIS REPORT

TOWN OF PALM BEACH

TESTED BY: RW ON: 7-20-99

SAMPLE NO.: VC99 43R1#2

SAMPLE ELEV. (FT. NGVD): -31.4

SAMPLE DEPTH (FT.): 2.6

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 227.61

SAMPLE WEIGHT AFTER WASH (GRAMS): 224.97

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	0.71	0.31	99.69
5	-2.00	4.000	1.04	0.46	99.54
7	-1.50	2.800	1.38	0.61	99.39
10	-1.00	2.000	2.14	0.94	99.06
14	-0.50	1.400	3.47	1.52	98.48
18	0.00	1.000	4.81	2.11	97.89
25	0.50	0.710	6.81	2.99	97.01
35	1.00	0.500	10.13	4.45	95.55
45	1.50	0.355	14.35	6.30	93.70
60	2.00	0.250	23.01	10.11	89.89
80	2.50	0.180	47.00	20.65	79.35
120	3.00	0.125	148.60	65.29	34.71
170	3.50	0.090	189.31	83.17	16.83
200	3.75	0.075	224.65	98.70	1.30
230	4.00	0.063	226.22	99.39	0.61
PAN			227.59	99.99	0.01

PHI (5): 1.15	PHI (16): 2.28	PHI (25): 2.55
PHI (50): 2.83	PHI (75): 3.27	PHI (84): 3.51
PHI (95): 3.69		

SIEVE LOSS (g): 0.02	SILT/CLAY: 1.30%
SKEWNESS: -0.664	KURTOSIS: 1.442

## GRAPHIC METHOD

MEAN (PHI): 2.69	SORTING: 0.62
MEAN (mm): 0.15	MEDIAN (mm): 0.14
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD	

## MOMENT METHOD

MEAN (PHI): 2.73	SORTING: 0.88
MEAN (mm): 0.15	

DATA FILE NAME: VC99-43R1#2.TAB

GRADATION ANALYSIS REPORT  
TOWN OF PALM BEACH  
TESTED BY: RW ON: 6/29/99

SAMPLE NO.: VC9943R1#3  
SAMPLE ELEV. (FT. NGVD): -32.8  
SAMPLE DEPTH (FT.): 4.0  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 199.73  
SAMPLE WEIGHT AFTER WASH (GRAMS): 198.18

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	5.17	2.59	97.41
5	-2.00	4.000	14.87	7.45	92.55
7	-1.50	2.800	22.46	11.25	88.75
10	-1.00	2.000	34.41	17.23	82.77
14	-0.50	1.400	56.70	28.39	71.61
18	0.00	1.000	69.92	35.01	64.99
25	0.50	0.710	85.91	43.01	56.99
35	1.00	0.500	106.61	53.38	46.62
45	1.50	0.355	120.30	60.23	39.77
60	2.00	0.250	131.87	66.02	33.98
80	2.50	0.180	145.31	72.75	27.25
120	3.00	0.125	160.60	80.41	19.59
170	3.50	0.090	197.14	98.70	1.30
200	3.75	0.075	197.93	99.10	0.90
230	4.00	0.063	198.83	99.55	0.45
PAN			199.71	99.99	0.01

PHI(5): -2.50 PHI(16): -1.10 PHI(25): -0.65  
PHI(50): 0.84 PHI(75): 2.65 PHI(84): 3.10  
PHI(95): 3.40

SIEVE LOSS(g): 0.02 SILT/CLAY: 0.90%  
SKEWNESS: -0.185 KURTOSIS: 0.733

GRAPHIC METHOD

MEAN (PHI): 0.75 SORTING: 2.10  
MEAN (mm): 0.60 MEDIAN (mm): 0.56  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 0.82 SORTING: 1.89  
MEAN (mm): 0.57

DATA FILE NAME: VC99-43R1#3.TAB

## GRADATION ANALYSIS REPORT

TOWN OF PALM BEACH

TESTED BY: RW ON: 7-20-99

SAMPLE NO.: VC99 43R1#4

SAMPLE ELEV. (FT. NGVD): -34.0

SAMPLE DEPTH (FT.): 5.2

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 157.05

SAMPLE WEIGHT AFTER WASH (GRAMS): 148.61

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	0.23	0.15	99.85
7	-1.50	2.800	0.49	0.31	99.69
10	-1.00	2.000	0.87	0.55	99.45
14	-0.50	1.400	1.75	1.11	98.89
18	0.00	1.000	3.01	1.92	98.08
25	0.50	0.710	5.04	3.21	96.79
35	1.00	0.500	9.33	5.94	94.06
45	1.50	0.355	16.44	10.47	89.53
60	2.00	0.250	28.24	17.98	82.02
80	2.50	0.180	52.11	33.18	66.82
120	3.00	0.125	113.44	72.23	27.77
170	3.50	0.090	145.44	92.61	7.39
200	3.75	0.075	147.32	93.80	6.20
230	4.00	0.063	152.40	97.04	2.96
PAN			157.04	99.99	0.01

PHI(5): 0.83

PHI(16): 1.87

PHI(25): 2.23

PHI(50): 2.72

PHI(75): 3.07

PHI(84): 3.29

PHI(95): 3.84

SIEVE LOSS(g): 0.01

SILT/CLAY: 6.20%

SKEWNESS: -0.535

KURTOSIS: 1.476

## GRAPHIC METHOD

MEAN (PHI): 2.51

SORTING: 0.71

MEAN (mm): 0.18

MEDIAN (mm): 0.15

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

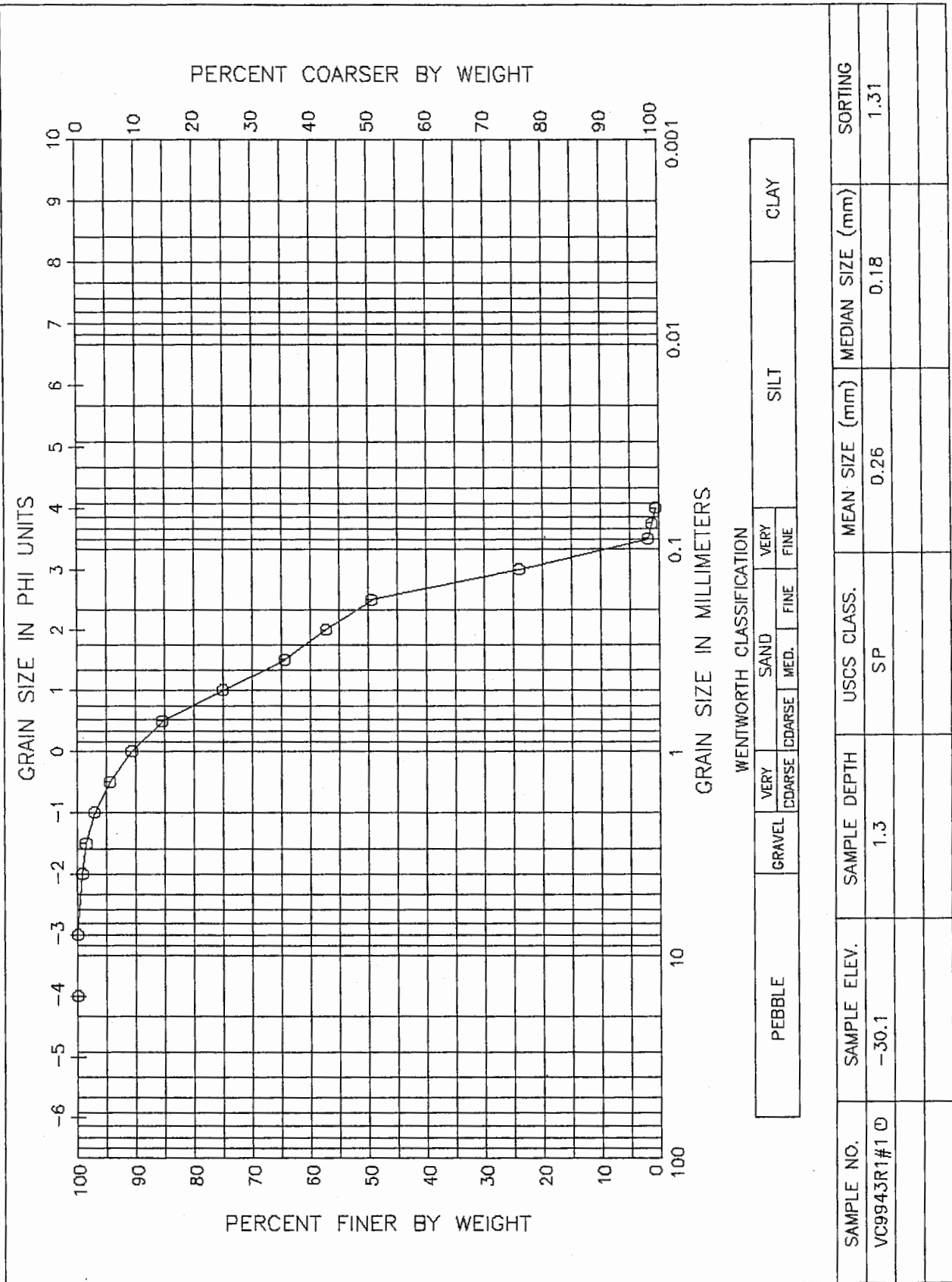
## MOMENT METHOD

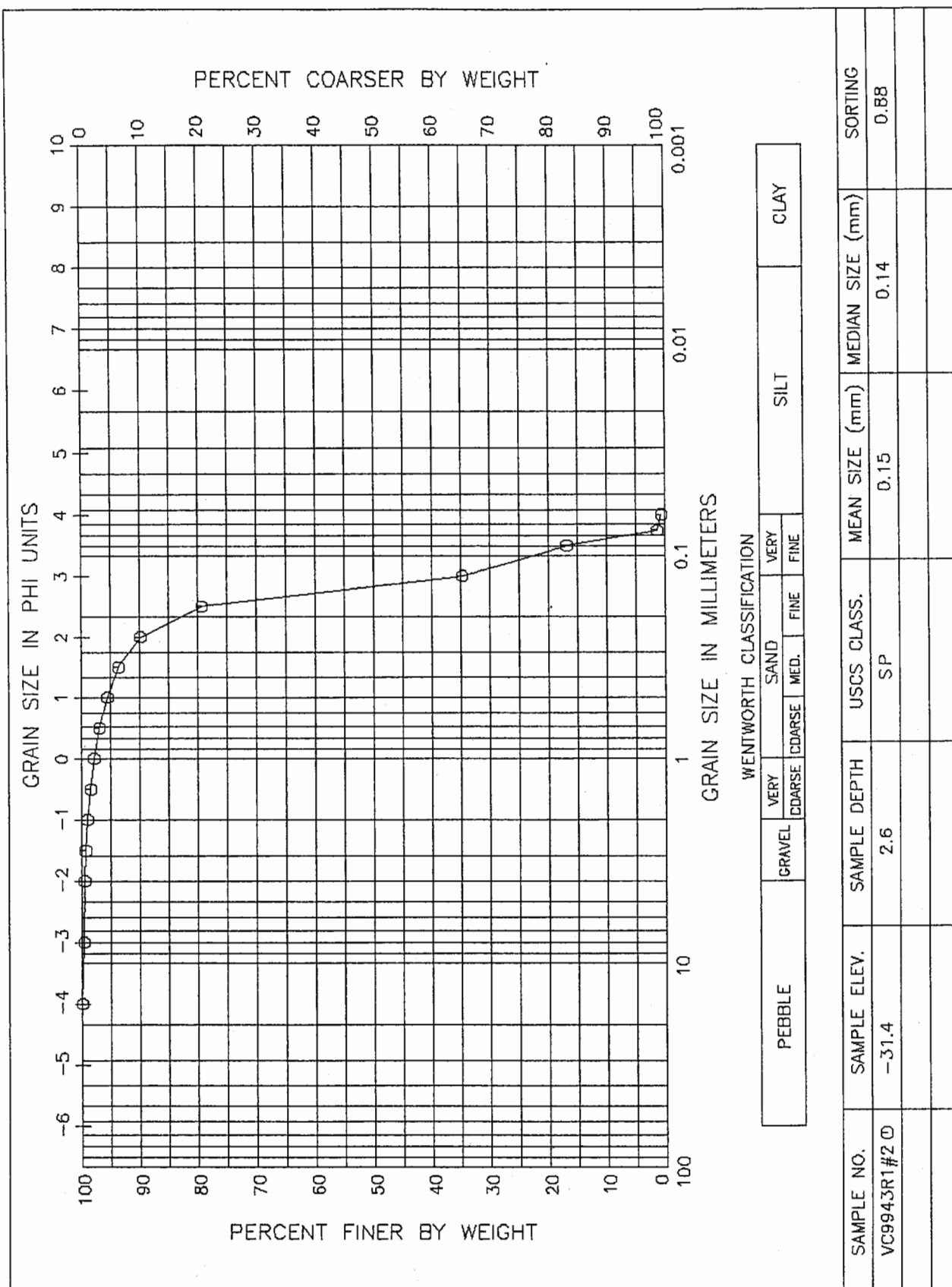
MEAN (PHI): 2.52

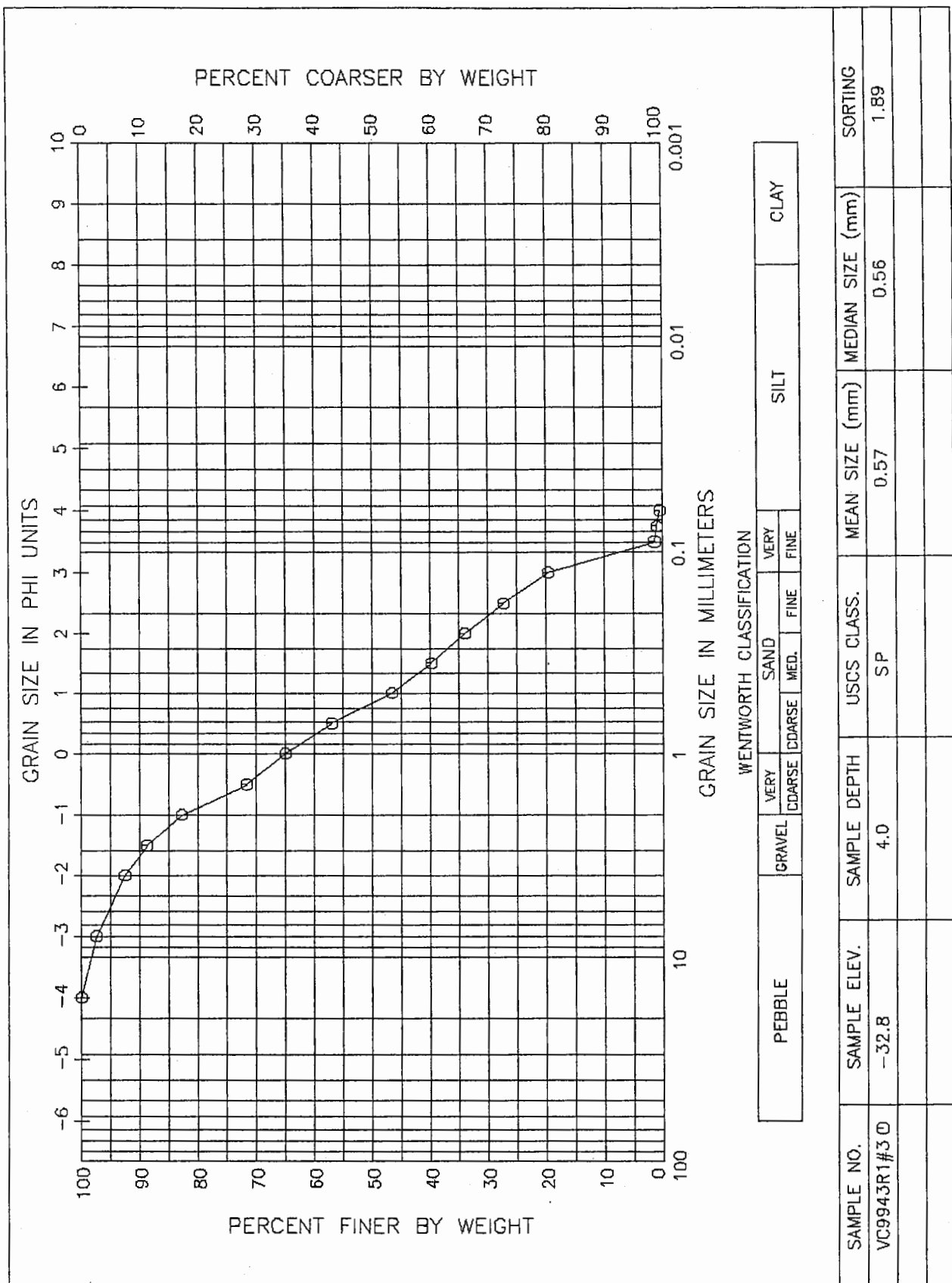
SORTING: 0.85

MEAN (mm): 0.17

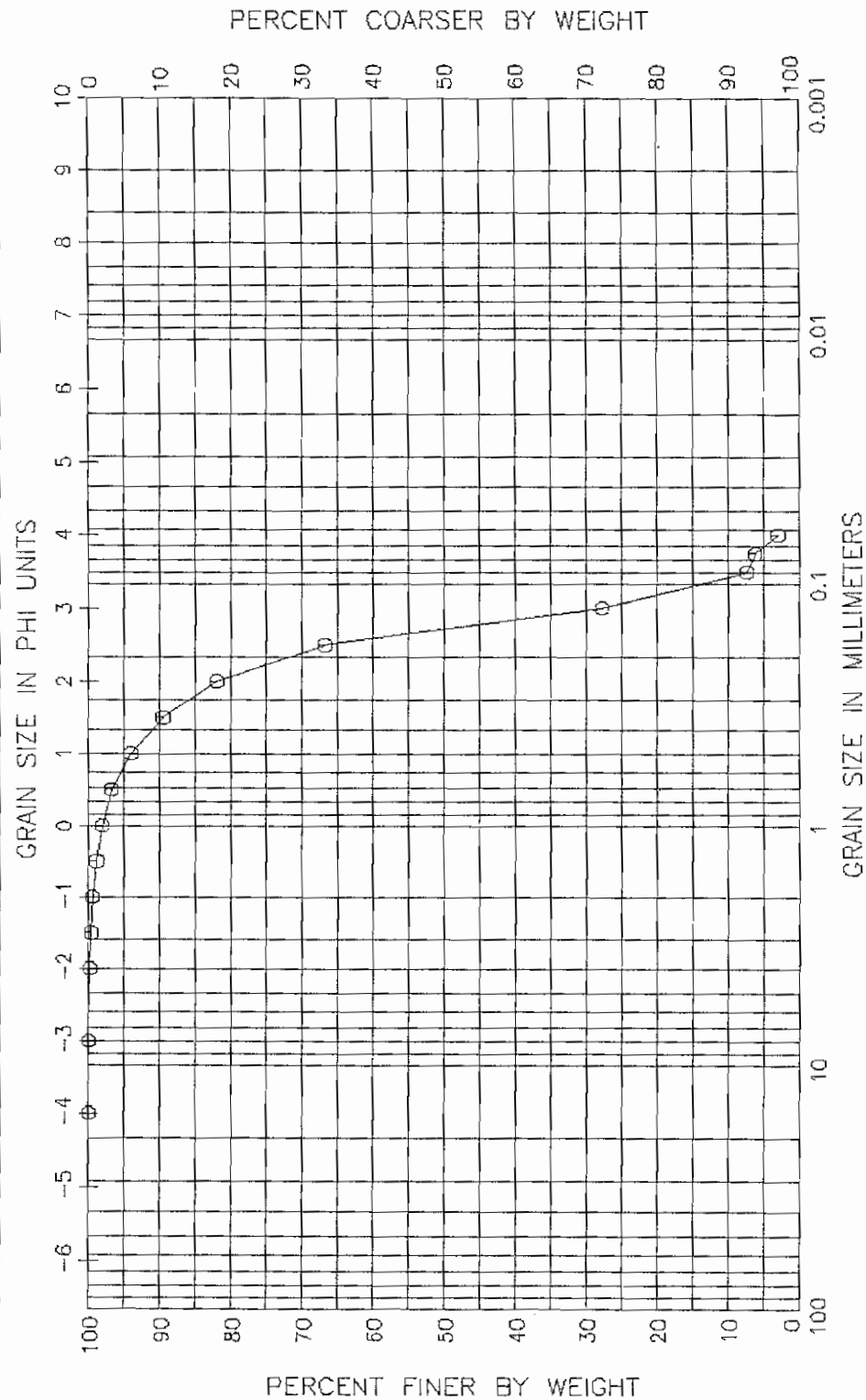
DATA FILE NAME: VC99-43R1#4.TAB







GRAIN SIZE DISTRIBUTION CURVE  
TOWN OF PALM BEACH



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
VC9943R1 #4 ①	-34.0	5.2	SP-SM	0.17	0.15	0.85

GRAIN SIZE DISTRIBUTION CURVE  
TOWN OF PALM BEACH