

GRADATION ANALYSIS REPORT  
TOWN OF PALM BEACH VIBRACORES 9/20 & 9/21/88

SAMPLE TYPE: CORE SAMPLES  
NAME: FGK  
DATE: OCT. 3, 1988

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LINE NO. CORE #8  
SAMPLE ELEVATION 2.2' DEEP  
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USCS  
DESCRIPTION  
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DRY SAMPLE WT. (GRAMS) 546.98  
SAMPLE WEIGHT AFTER WASH 540.36  
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SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	GRAMS	%RET.	%PASS
5	-2.00	4.0	.00 0	.00	100.00
7	-1.50	2.8	.56 .04	.10	99.90
10	-1.00	2.0	.63 .04	.12	99.88
14	-0.50	1.4	1.30 .09	.24	99.76
18	0.00	1.0	1.82 .15	.33	99.67
25	0.50	0.71	2.92 .20	.53	99.47
35	1.00	0.5	7.91 .55	1.45	98.55
45	1.50	0.355	108.31 7.50	19.80	80.20
60	2.00	0.25	248.82 17.51	45.49	54.51
80	2.50	0.18	359.24 24.82	65.68	34.32
120	3.00	0.125	515.92 35.69	94.32	5.68
170	3.50	0.09	538.57 31.26	98.46	1.54
200	3.75	0.075	538.99 31.22	98.54	1.46
230	4.00	0.063	539.43 37.31	99.22	.78
PAN			539.49 37.32	99.24	.76

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SIEVE LOSS	.87	MEDIAN (mm)	.234
WT. AVE. (mm)	.220	MEAN (mm)	.236
SILT/CLAY %	1.30	SORTING	.705
PHI(16)	1.377	PHI(84)	2.788

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SAMPLE TYPE: CORE SAMPLES  
NAME: FGK  
DATE: OCT. 3, 1988

-----  
LINE NO. CORE #8  
SAMPLE ELEVATION 9.2' DEEP  
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USCS  
DESCRIPTION  
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DRY SAMPLE WT. (GRAMS) 512.56  
SAMPLE WEIGHT AFTER WASH 506.35  
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SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	GRAMS	%RET.	%PASS
5	-2.00	4.0	2.01	.39	99.61
7	-1.50	2.8	2.32	.45	99.55
10	-1.00	2.0	2.68	.52	99.48
14	-0.50	1.4	4.17	.81	99.19
18	0.00	1.0	7.80	1.52	98.48
25	0.50	0.71	17.64	3.44	96.56
35	1.00	0.5	52.51	10.24	89.76
45	1.50	0.355	244.32	47.67	52.33
60	2.00	0.25	302.46	59.01	40.99
80	2.50	0.18	394.75	77.02	22.98
120	3.00	0.125	484.60	94.55	5.45
170	3.50	0.09	503.72	98.28	1.72
200	3.75	0.075	504.41	98.41	1.59
230	4.00	0.063	504.82	99.10	.90
PAN			505.60	99.25	.75

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SIEVE LOSS .75 MEDIAN (mm) .333  
WT. AVE. (mm) .300 MEAN (mm) .275  
SILT/CLAY % 1.44 SORTING .798  
PHI(16) 1.066 PHI(84) 2.661  
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GRADATION ANALYSIS REPORT  
TOWN OF PALM BEACH VIBRACORES 9/20 & 9/21/88

SAMPLE TYPE: CORE SAMPLES  
NAME: FGK  
DATE: OCT. 3, 1988

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LINE NO. CORE #8  
SAMPLE ELEVATION 12.2' DEEP  
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USCS  
DESCRIPTION  
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DRY SAMPLE WT. (GRAMS) 545.69  
SAMPLE WEIGHT AFTER WASH 540.63  
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SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	GRAMS	%RET.	%PASS
5	-2.00	4.0	3.61	.66	99.34
7	-1.50	2.8	7.50	1.37	98.63
10	-1.00	2.0	12.20	2.24	97.76
14	-0.50	1.4	21.49	3.94	96.06
18	0.00	1.0	38.25	7.01	92.99
25	0.50	0.71	63.17	11.58	88.42
35	1.00	0.5	120.43	22.07	77.93
45	1.50	0.355	258.33	47.34	52.66
60	2.00	0.25	377.87	69.25	30.75
80	2.50	0.18	421.41	77.23	22.77
120	3.00	0.125	526.22	96.43	3.57
170	3.50	0.09	536.80	98.37	1.63
200	3.75	0.075	537.43	98.49	1.51
230	4.00	0.063	538.17	99.09	.91
PAN			538.59	99.16	.84

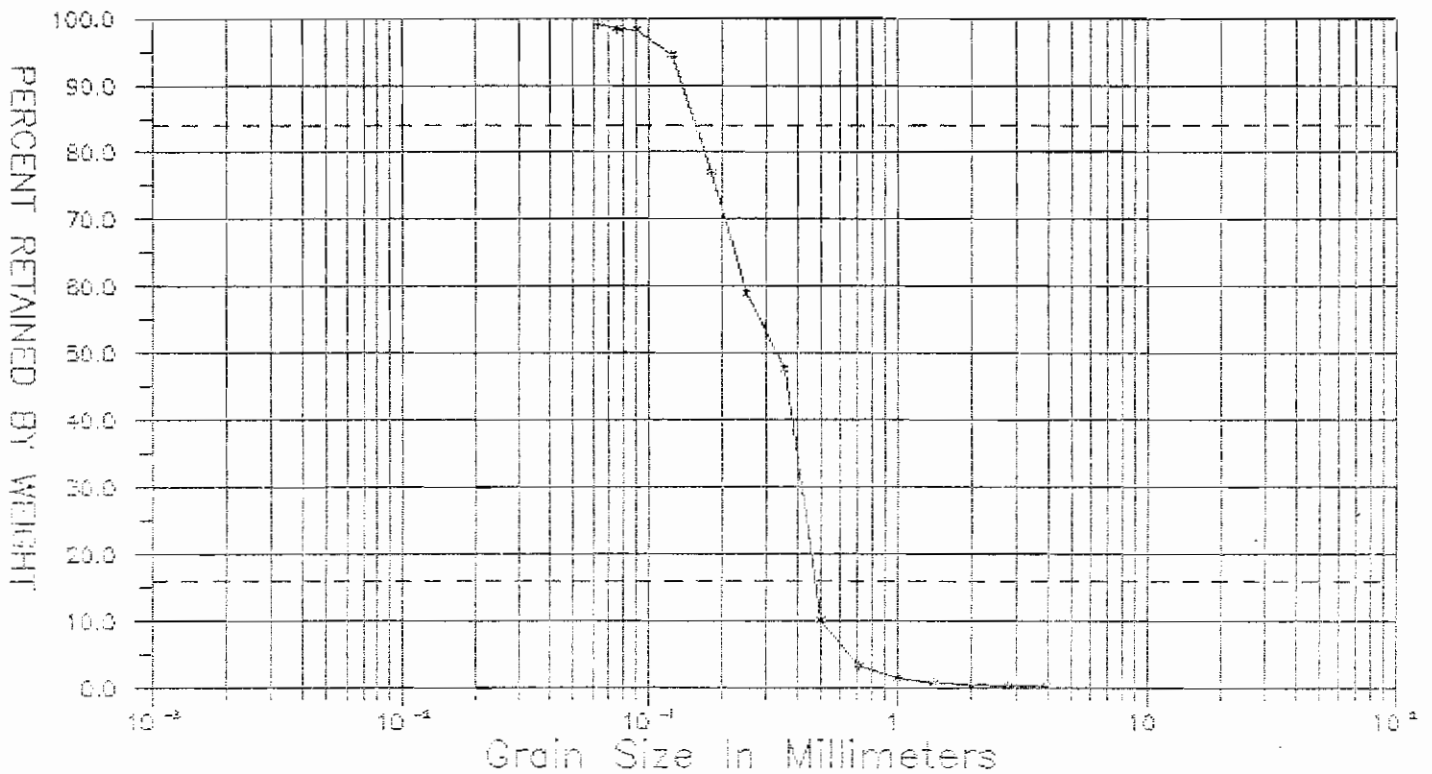
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SIEVE LOSS 2.04 MEDIAN (mm) .342  
WT. AVE. (mm) .392 MEAN (mm) .316  
SILT/CLAY % 1.14 SORTING .976  
PHI(16) .686 PHI(84) 2.638  
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This graph shows the grain size distribution for a sample that is 100% retained by a 100 mesh sieve. The y-axis represents the percent retained by weight, ranging from 0.0 to 100.0. The x-axis represents the grain size in millimeters on a logarithmic scale, ranging from  $10^{-3}$  to  $10^2$ . A dashed horizontal line is drawn at 85.0% retained, indicating the 100 mesh sieve size. The data curve starts at 100.0% retained for grain sizes down to approximately 0.075 mm, then drops sharply to about 15.0% retained at 0.25 mm, and finally levels off near 0.0% retained for grain sizes greater than 0.5 mm.

Grain Size (mm)	Percent Retained (%)
0.075	100.0
0.15	95.0
0.3	65.0
0.6	30.0
1.2	15.0
2.5	2.0
5.0	0.5
10.0	0.2
20.0	0.1
40.0	0.0

SAMPLE NO.	CLASSIFICATION			
CORE #S 2.2'	MEAN	MEDIAN	SORTING	USCS
E/21/88	0.236	0.234	70%	SP

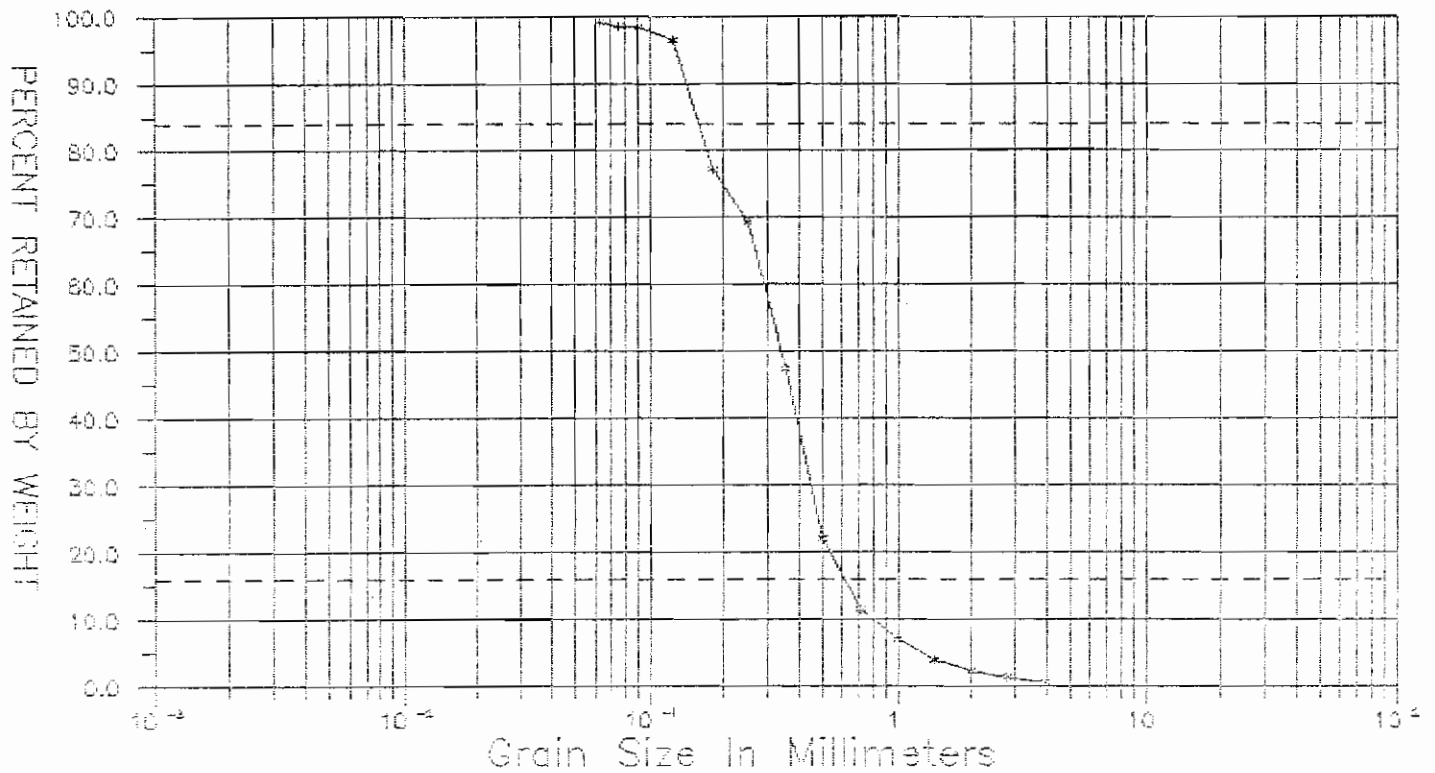
# TOWN OF PALM BEACH VIBRACORES MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.	CLASSIFICATION			
CORE #8 9.2'	MEAN	MEDIAN	SORTING	USCS
9/21/98	.275	.333	.799	SP

# TOWN OF PALM BEACH VIBRACORES MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.		CLASSIFICATION		
CORE #	DEPTH	MEAN	MEDIAN	USCS
9/21/88	12.2'	319	342	SP