

GRADATION ANALYSIS REPORT
PALM BEACH VIBRACORE SAMPLES DECEMBER 1987

FOR: X SOIL CLASSIFICATION X CORING SAMPLES BEACH SAMPLES CONCRETE AGGREGATES

ENVIRONMENTAL STATION NATURAL SOIL FILL SAMPLES PIT SAMPLES

CORE NO.	11	11	12
SAMPLE DEPTH (FT)	14.0	18.0	4.0

U.S.C.S. DESCRIPTION	SP	SP	SP
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DRY SAMPLE WT (GRAMS)	252.71	221.75	228.62
SAMPLE WT AFTER WASH	248.32	215.51	223.72

SIEVE SIZE	FILL SIZE	MESH SIZE (mm)	GRAMS	% RET.	% PASS		GRAMS	% RET.	% PASS		GRAMS	% RET.	% PASS
5	-2.00	4	0.39	0.15	99.85	,	0.00	0.00	100.00	,	0.30	0.13	99.87
7	-1.50	2.8	0.50	0.20	99.80	,	0.34	0.15	99.85	,	0.30	0.13	99.87
10	-1.00	2	0.72	0.28	99.72	,	1.08	0.48	99.51	,	0.42	0.18	99.82
14	-0.50	1.4	1.05	0.42	99.58	,	2.20	0.98	99.01	,	0.50	0.22	99.78
18	0.00	1	1.90	0.75	99.25	,	3.84	1.64	98.36	,	0.71	0.31	99.69
25	0.50	0.71	3.13	1.24	98.76	,	5.86	2.64	97.36	,	1.82	0.80	99.20
30	1.00	0.5	5.53	2.10	97.81	,	10.82	4.88	95.12	,	5.34	2.34	97.65
45	1.50	0.355	8.82	3.49	96.51	,	22.81	10.28	89.71	,	24.87	10.88	89.12
50	2.00	0.25	33.80	13.38	86.62	,	61.04	27.58	72.47	,	68.87	30.17	88.83
80	2.50	0.18	148.71	59.24	40.76	,	134.59	60.68	39.81	,	128.06	55.14	44.85
120	3.00	0.125	217.61	86.11	13.89	,	182.25	85.70	13.30	,	193.31	85.43	14.57
170	3.50	0.09	246.45	97.52	2.48	,	215.21	97.05	2.95	,	224.26	98.09	1.91
200	3.75	0.075	247.55	97.96	2.04	,	215.80	97.82	2.68	,	225.00	98.42	1.58
280	4.00	0.063	247.81	98.06	1.94	,	216.10	97.45	2.55	,	225.40	98.58	1.41
PAN			248.00	98.14		,	216.24	97.52		,	225.47	98.62	

SIEVE LOSS	0.32	0.27	0.25
WEIGHTED AVE (mm)	0.182	0.212	0.185
SILT CLAY %	1.82	2.56	1.47

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PALM BEACH VIBROCORE SAMPLES DECEMBER 1987

FOR: X SOIL CLASSIFICATION X CORING SAMPLES BEACH SAMPLES CONCRETE AGGREGATES

ENVIRONMENTAL STATION NATURAL SOIL FILL SAMPLES PIT SAMPLES

CORE NO.	12	12	12
SAMPLE DEPTH (FT)	9.0	14.4	18.0

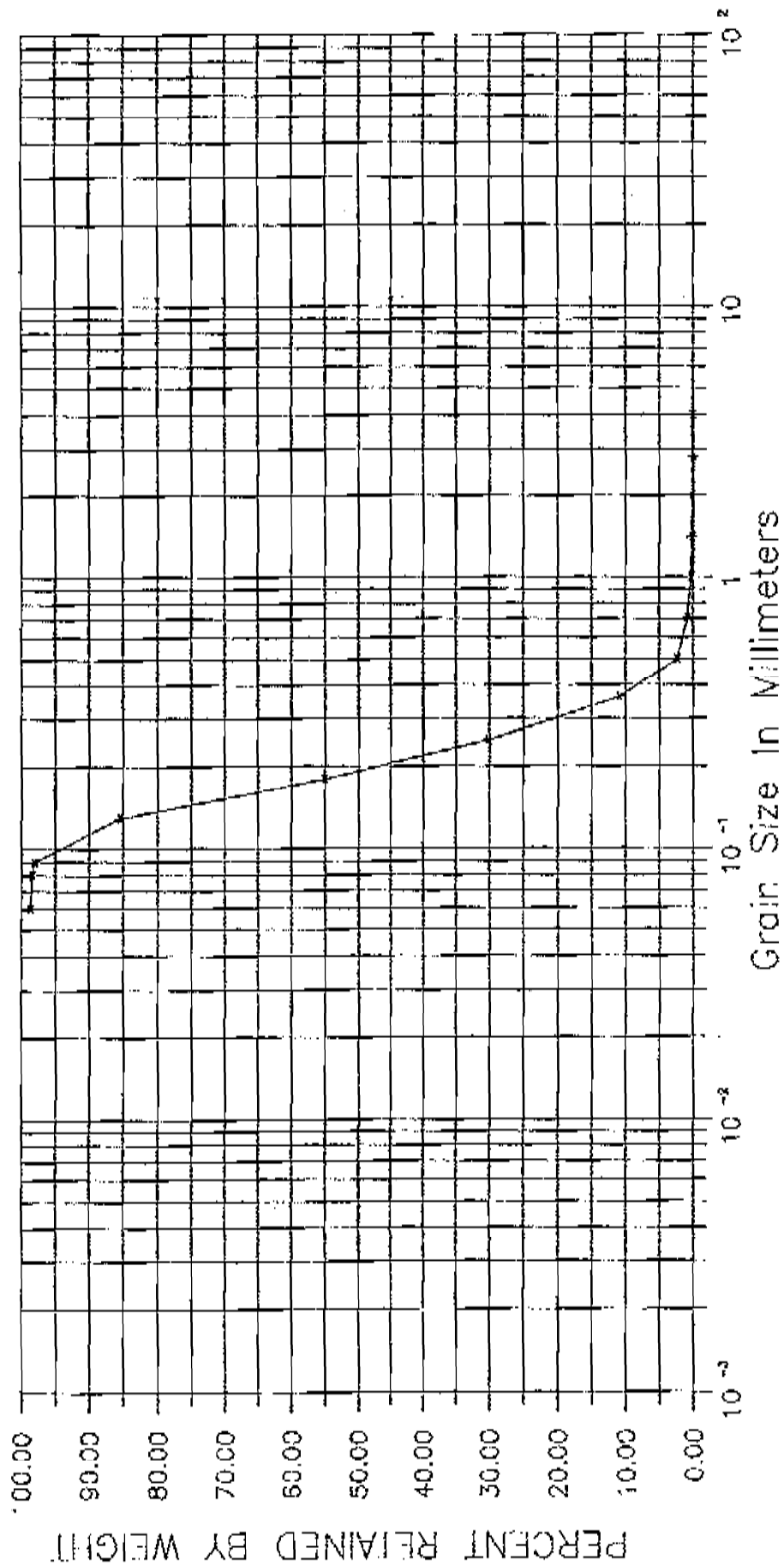
U.S.C.S. DESCRIPTION	SP	SP-GP	SP
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DRY SAMPLE WT (GRAMS)	241.04	257.04	224.82
SAMPLE WT AFTER WASH	238.24	253.93	220.85

SIEVE SIZE	PHI SIZE	MESE SIZE (mm)	GRAMS	% RET.	% PASS		GRAMS	% RET.	% PASS		GRAMS	% RET.	% PASS
5	-2.00	4	0.30	0.12	99.88	'	26.03	10.10	89.90	'	2.75	1.22	98.78
7	-1.50	2.8	0.30	0.12	99.88	'	25.00	13.58	86.42	'	3.21	1.43	98.57
10	-1.00	2	0.41	0.17	99.83	'	46.85	18.22	81.78	'	3.62	1.61	98.39
14	-0.50	1.4	0.82	0.26	99.74	'	54.32	24.97	75.03	'	4.44	1.97	98.03
18	0.00	1	1.09	0.45	99.55	'	82.86	34.68	65.12	'	5.72	2.54	97.46
25	0.50	0.71	1.85	0.76	99.24	'	119.75	46.48	53.52	'	0.00	3.56	96.44
35	1.00	0.5	3.41	1.41	98.59	'	146.72	56.95	43.05	'	11.27	5.01	94.99
45	1.50	0.355	8.79	2.81	97.19	'	160.46	62.89	37.71	'	16.45	7.32	92.60
50	2.00	0.25	32.73	13.53	86.47	'	172.70	67.03	32.87	'	31.05	13.84	86.06
60	2.50	0.18	145.51	60.17	39.83	'	205.38	79.72	20.28	'	112.68	50.20	49.80
120	3.00	0.125	213.79	88.40	11.60	'	235.48	91.79	8.21	'	169.80	75.44	24.56
170	3.50	0.09	237.09	95.04	1.96	'	251.74	97.71	2.29	'	219.07	97.44	2.56
200	3.75	0.075	237.96	98.40	1.60	'	252.70	98.06	1.92	'	220.60	98.12	1.88
230	4.00	0.063	238.03	98.42	1.58	'	252.85	98.18	1.82	'	220.83	98.14	1.86
PAN			238.10	98.45		'	253.05	98.22		'	220.65	98.15	

SIEVE LOSS	0.14	0.88	0.30
WEIGHTED AVE (mm)	0.177	1.078	0.213
SILT-CLAY %	1.55	1.58	1.74

MECHANICAL ANALYSIS CHART



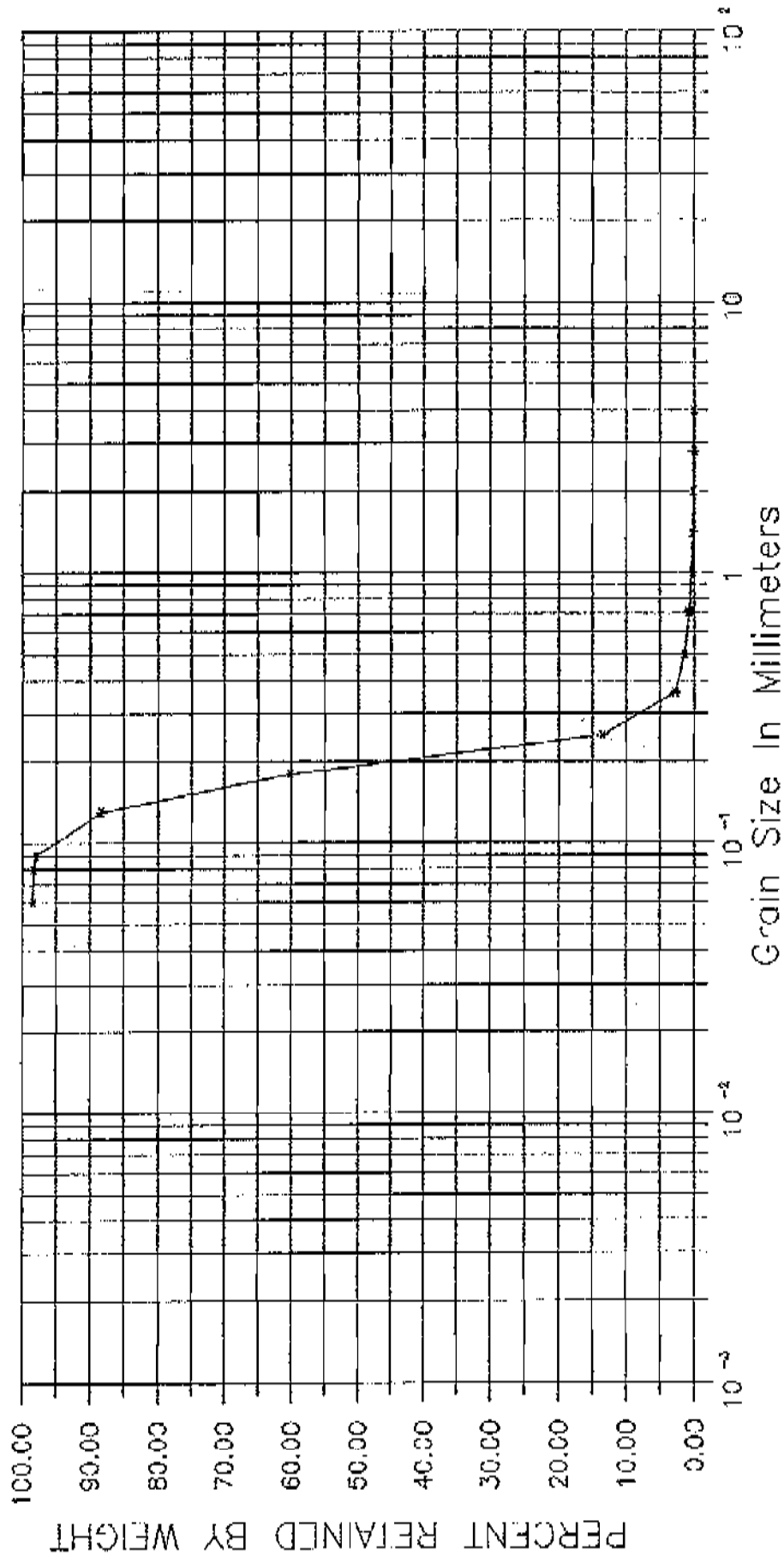
SILT OR CLAY		SAND		GRAVEL	
FINE	COARSE	FINE	COARSE	FINE	COARSE

SAMPLE NO.

CLASSIFICATION

2	MEAN	MEDIAN	SORTING
4'	0.25 mm	0.19 mm	0.65
	0.25 mm	0.19 mm	0.63
	GREY POORLY GRADED SAND-(SP)		

MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO. CLASSIFICATION

12	MEAN	MEDIAN	SORTING
91	0.19mm	0.19mm	1.13
	0.19mm	0.20mm	1.30
	GREY POORLY GRADED SAND & SHELL FRAGMENTS - (SP)		

PERCENT RETAINED BY WEIGHT

Grain Size in Millimeters

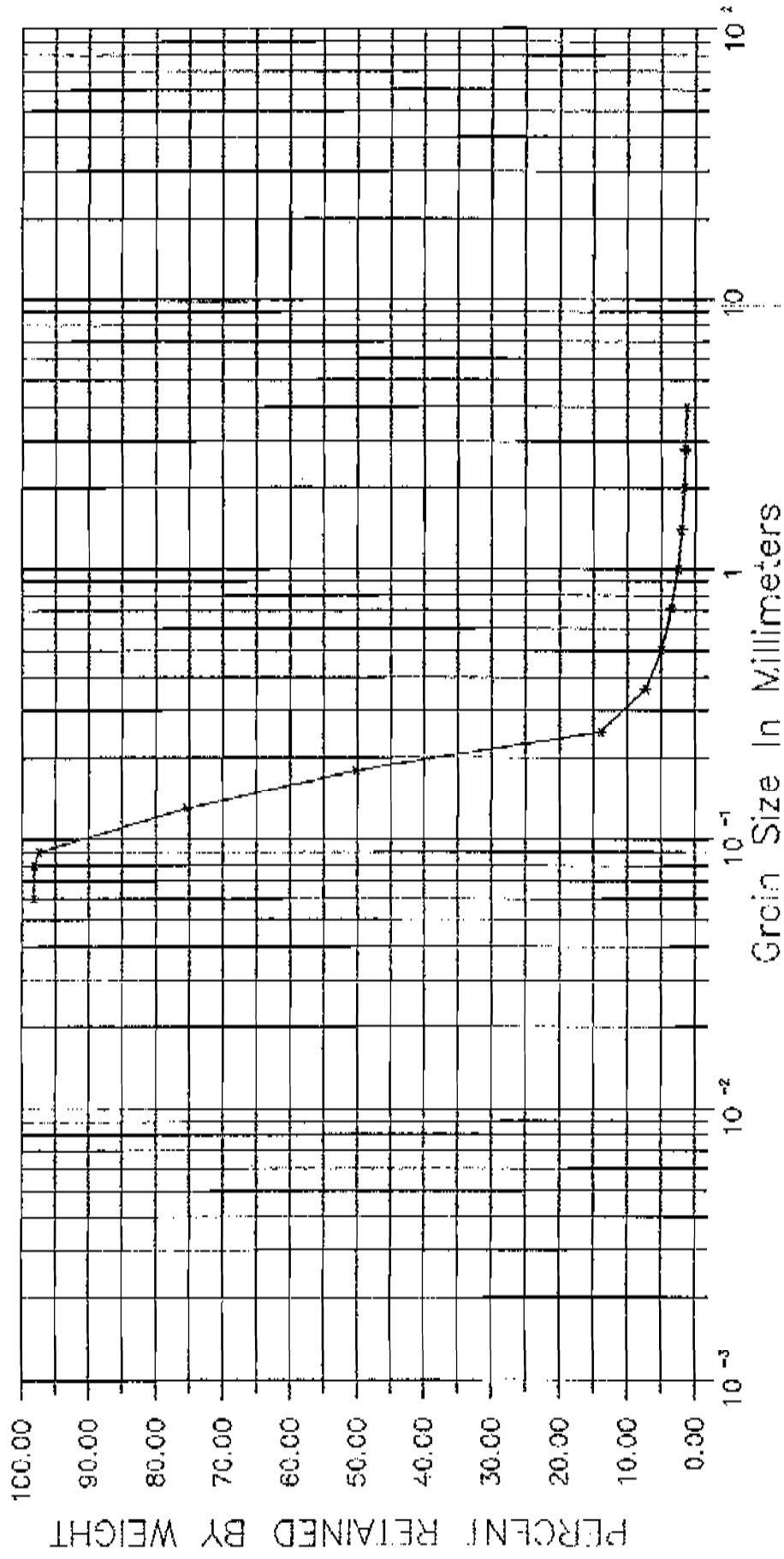
Grain Size (mm)	Percent Retained (%)
0.075	100.00
0.15	95.00
0.3	85.00
0.6	75.00
1.2	65.00
2.5	55.00
5.0	45.00
10.0	35.00
20.0	25.00
40.0	15.00
75.0	10.00
150.0	5.00
300.0	0.00

	SILT OR CLAY		SAND		GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE	

SAMPLE NO.	CLASSIFICATION		
	MEAN	MEDIAN	SORTING
12			
14.1	65mm	64mm	
	60	61	1.97
	GREY POORLY GRADED SAND, SHELL FRAGMENTS, & CEMENTED SAND		

(SP-6A)

MECHANICAL ANALYSIS CHART



SILT OR CLAY		SAND		GRAVEL	
FINE	COARSE	FINE	COARSE	FINE	COARSE

SAMPLE NO. CLASSIFICATION

12	MEAN	MEDIAN	SORTING
18	0.15	0.15	0.15
	0.17	0.18	0.17
	POORLY GRADED SAND (SP)		