

GRADATION ANALYSIS REPORT
PALM BEACH VIBRACORE SAMPLES DECEMBER 1987

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

ENVIRONMENTAL STATION NATURAL SOIL

FILL SAMPLES

PIT SAMPLES

CORE NO.	1	2	2								
SAMPLE DEPTH (FT)	17.7	1.7	5.8								
U.S.C.S.	SP	SP	SP								
DESCRIPTION											
DRY SAMPLE WT (GRAMS)	395.45	233.55	198.56								
SAMPLE WT AFTER WASH	390.98	230.56	194.38								
SIEVE SIZE	PHI	MMSE									
	SIZE	SIZE (mm)	GRAMS	% RET.	% PASS	GRAMS	% RET.	% PASS	GRAMS	% RET.	% PASS
5	-2.00	4	0.05	0.01	99.99	1.27	0.54	89.40	0.00	0.00	100.00
7	-1.50	2.5	0.13	0.03	99.87	2.36	1.01	98.99	0.12	0.06	99.84
10	-1.00	2	0.59	0.15	99.65	2.96	1.27	98.73	0.89	0.45	99.55
14	-0.50	1.4	1.07	0.27	99.73	6.82	2.71	97.29	1.65	0.83	99.17
18	0.00	1	2.56	0.65	99.35	9.63	4.12	95.88	2.03	1.02	98.98
25	0.50	0.71	6.85	1.61	98.39	13.58	5.81	94.19	2.95	1.49	98.51
35	1.00	0.5	14.25	3.60	96.40	19.63	8.40	91.60	6.83	3.48	96.51
45	1.50	0.355	36.25	9.17	90.83	45.86	19.42	80.58	17.45	8.79	91.21
60	2.00	0.25	135.26	34.20	65.80	135.02	57.84	42.08	100.32	50.52	49.48
80	2.50	0.18	250.38	63.31	36.69	187.54	84.58	15.42	151.23	76.16	23.84
120	3.00	0.125	354.38	89.61	10.39	226.36	97.77	2.20	102.53	96.96	3.04
170	3.50	0.09	389.26	98.43	1.57	229.20	98.13	1.87	193.05	97.23	2.77
200	3.75	0.075	380.56	99.77	1.23	229.31	98.16	1.82	194.17	97.79	2.21
230	4.00	0.063	390.89	99.80	1.20	228.56	98.29	1.71	194.20	97.80	2.20
PAN			390.78	99.81		229.58	98.30		194.20	97.80	
SIEVE LOSS			0.25			0.88			0.16		
WEIGHTED AVE (mm)			0.204			0.304			0.231		
SILT-CLAY %			1.17			1.40			2.13		

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PALM BEACH VITRACORE SAMPLES DECEMBER 1987

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

ENVIRONMENTAL STATION NATURAL SOIL FILL SAMPLES PIT SAMPLES

CORE NO.	2	2	3
SAMPLE DEPTH (FT)	14.1	18.7	3

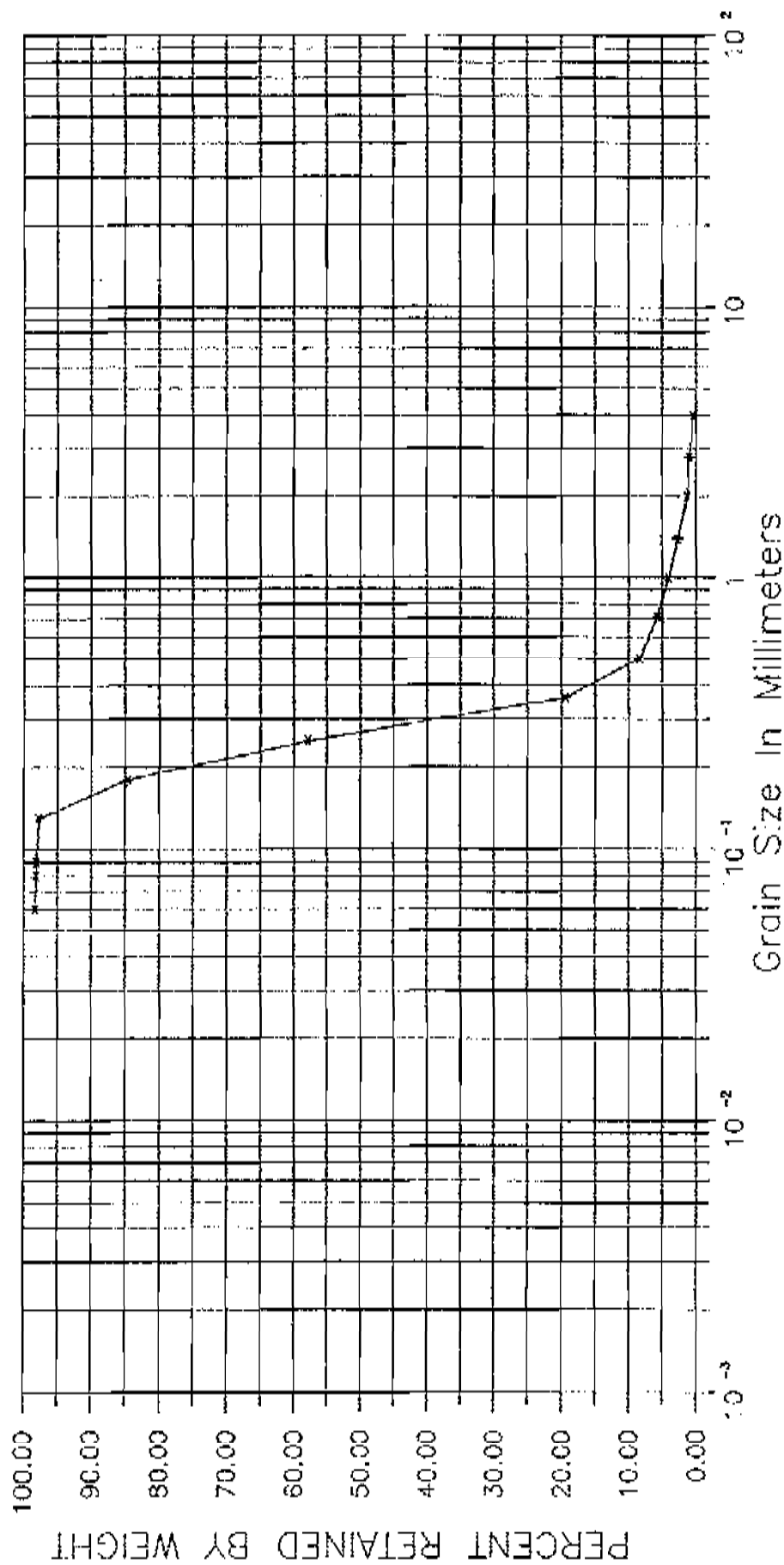
U.S.C.S.	SP	SP	SP
DESCRIPTION			

DRY SAMPLE WT (GRAMS)	181.22	185.32	225.43
SAMPLE WT AFTER WASH	167.25	162.05	221.36

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	GRAMS	% RET.	% PASS	GRAMS	% RET.	% PASS	GRAMS	% RET.	% PASS
5	-2.00	4	0.17	0.09	99.91	0.00	0.00	100.00	0.00	0.00	100.00
7	-1.50	2.8	0.70	0.37	99.63	0.23	0.14	99.86	0.03	0.01	99.99
10	-1.00	2	1.25	0.65	99.35	0.53	0.32	99.68	0.20	0.09	99.91
14	-0.50	1.4	2.36	1.23	98.77	1.20	0.73	99.27	0.51	0.23	99.77
18	0.00	1	3.68	1.98	98.02	1.80	1.09	98.91	0.89	0.39	99.61
25	0.50	0.71	5.63	2.94	97.06	2.60	1.57	98.43	1.65	0.73	99.27
35	1.00	0.5	8.63	4.51	95.49	4.26	2.55	97.42	3.65	1.62	98.38
45	1.50	0.355	12.58	6.58	93.42	8.52	5.15	94.85	4.56	2.02	97.98
60	2.00	0.25	25.89	13.54	86.46	18.25	11.04	88.96	32.56	14.44	85.56
80	2.50	0.18	88.25	46.15	53.85	82.06	48.62	50.18	112.65	49.97	50.03
120	3.00	0.125	155.36	81.25	18.75	151.24	81.40	0.52	211.47	93.81	6.19
170	3.50	0.09	186.36	97.46	2.54	159.36	95.39	3.61	219.32	97.29	2.71
200	3.75	0.075	187.00	97.78	2.21	161.23	97.53	2.47	220.65	97.38	2.12
230	4.00	0.063	187.19	97.89	2.11	161.39	97.74	2.26	220.96	98.03	1.97
PAN			187.21	97.90		161.64	97.77		221.09	98.07	

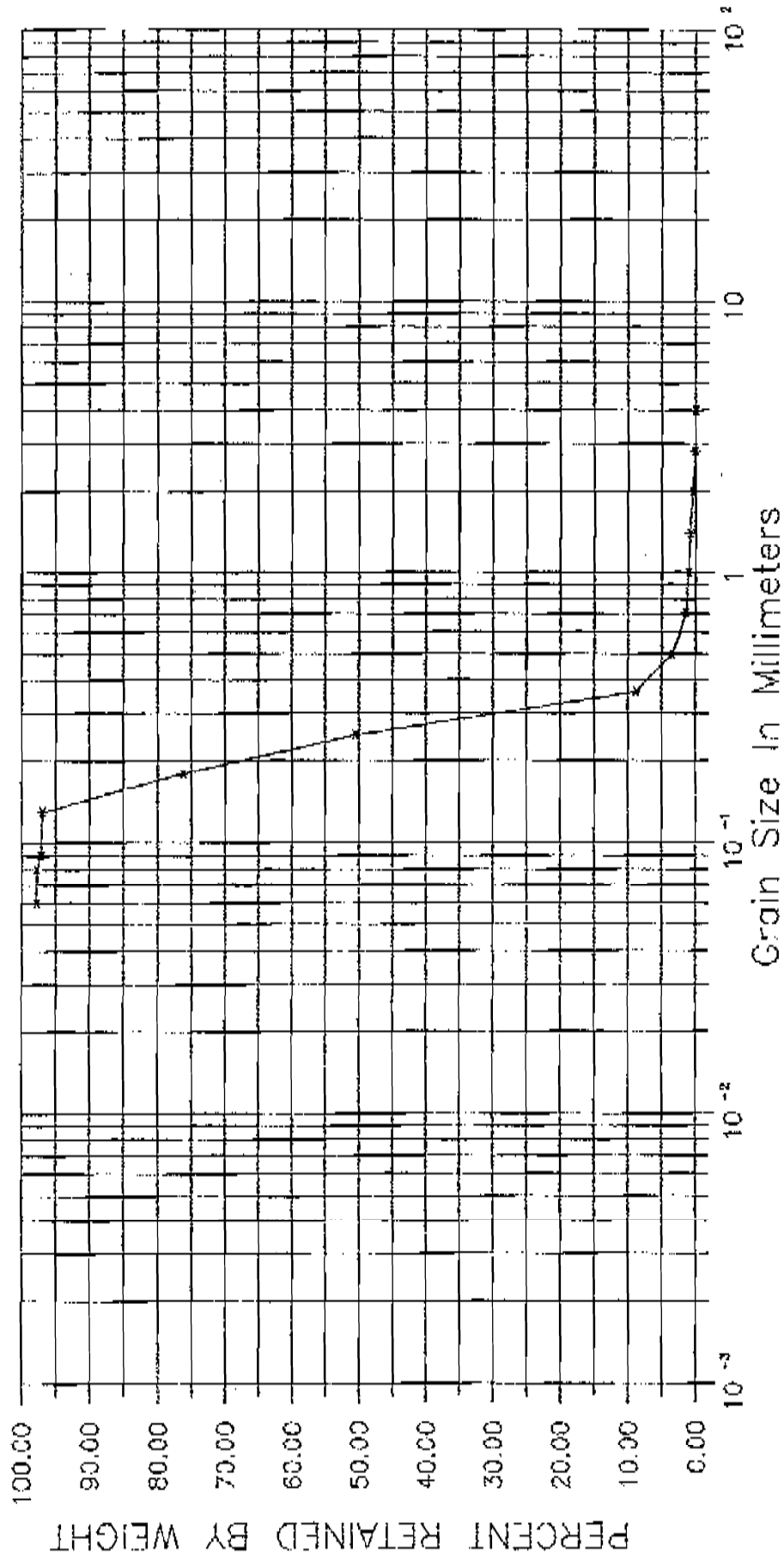
SIEVE LOSS	0.04	0.71	0.27
WEIGHTED AVE (mm)	0.193	0.180	0.170
SILT-CLAY %	2.19	2.04	2.00

MECHANICAL ANALYSIS CHART



SAMPLE NO.	MEAN	MEDIAN	SORTING	CLASSIFICATION
2	2.0	2.0	2.5	GREY POORLY GRADED SAND - (SP)
1.7	2.0	2.0	2.5	

MECHANICAL ANALYSIS CHART



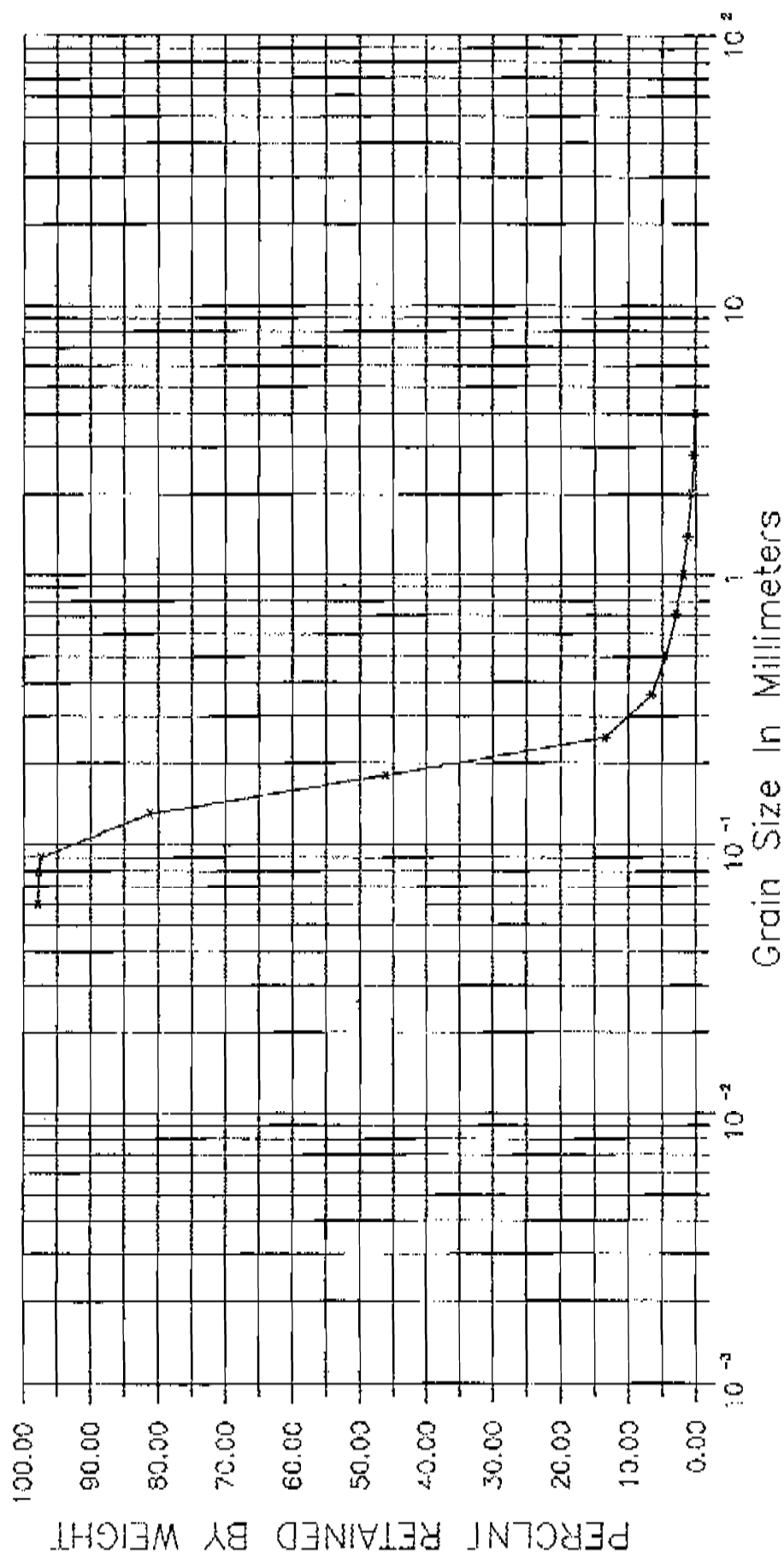
SILT OR CLAY		SAND		GRAVEL	
FINE	COARSE	FINE	COARSE	FINE	COARSE

SAMPLE NO.

CLASSIFICATION

2	MEAN	MEDIAN	SORTING
6.8	2.5 mm	0.5 mm	SS
			GREY POORLY GRADED SAND - (SP)

MECHANICAL ANALYSIS CHART



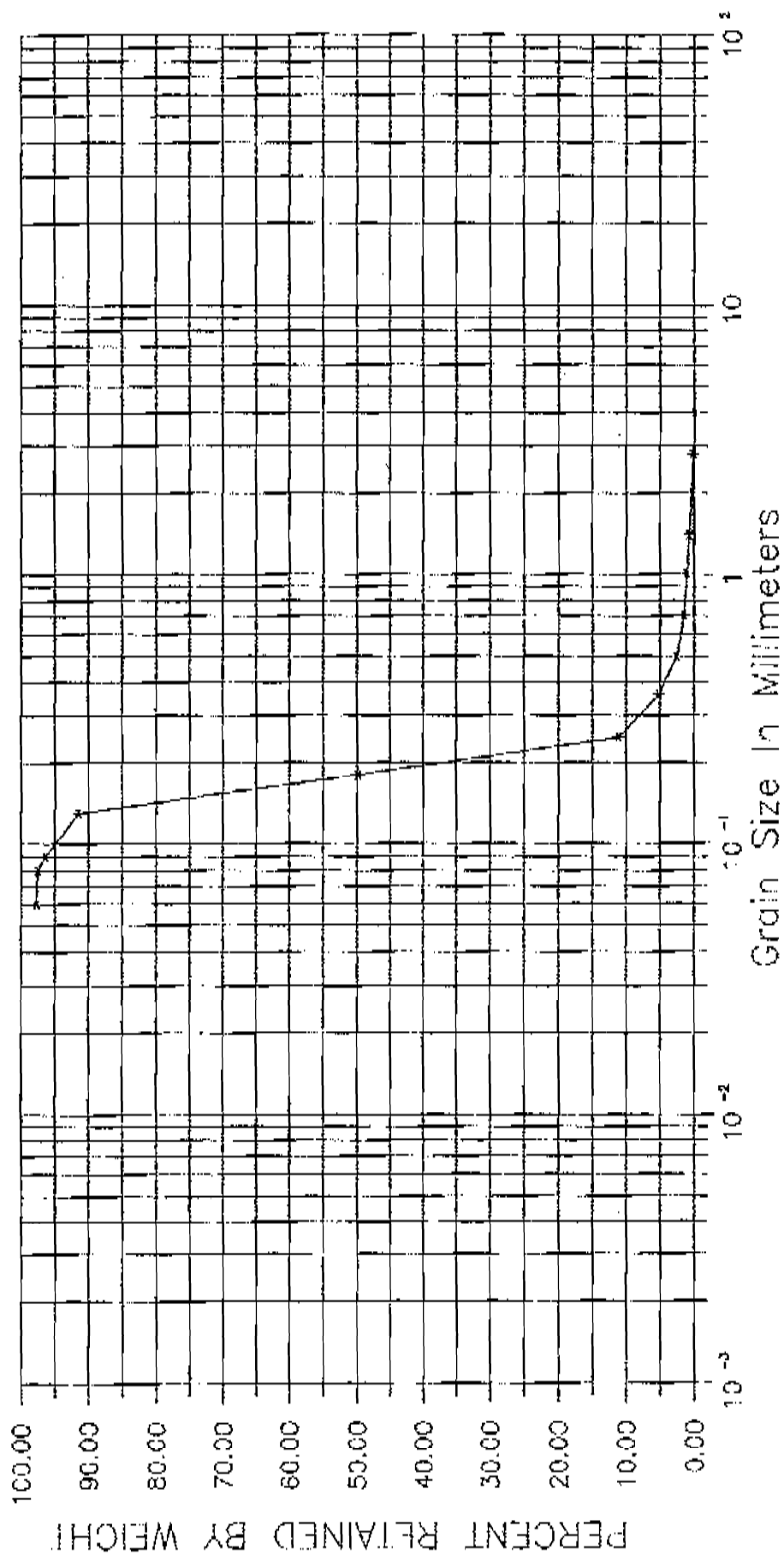
SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

CLASSIFICATION

SAMPLE NO.

2	MEAN	MEDIAN	SORTING
14.1	0.18mm	0.18mm	0.45
	GREY POORLY GRADED SAND - (SP)		

MECHANICAL ANALYSIS CHART



SLT OR CLAY	SAND				GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE	

CLASSIFICATION

SAMPLE NO.

2	MEAN	MEDIAN	SORTING
18.7	0.18 mm	0.30 mm	3.0
	0.18 mm	0.33	
	GREY POORLY GRADED SAND WITH SHELL FRAGMENTS.		
	(SP)		