

GRADATION ANALYSIS REPORT
PALM BEACH VIBRACORE SAMPLES DECEMBER 1987

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

ENVIRONMENTAL STATION NATURAL SOIL FILL SAMPLES PIT SAMPLES

CORE NO.	13	13	13
SAMPLE DEPTH (FT)	2.0	8.0	14.0

U.S.C.S. DESCRIPTION	SP	SP	SP
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DRY SAMPLE WT (GRAMS)	222.65	168.65	160.65
SAMPLE WT AFTER WASH	219.82	164.23	158.11

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	GRAMS	% RET.	% PASS	GRAMS	% RET.	% PASS	GRAMS	% RET.	% PASS
5	-2.00	4	0.08	0.04	89.85	0.35	0.21	99.79	0.10	0.06	99.94
7	-1.50	2.8	0.28	0.13	99.87	0.41	0.25	99.75	0.13	0.08	99.92
10	-1.00	2	0.43	0.19	99.81	0.59	0.35	99.65	0.30	0.19	99.81
14	-0.50	1.4	0.70	0.31	99.69	0.71	0.43	99.57	0.82	0.51	99.49
18	0.00	1	1.10	0.49	99.51	0.90	0.54	99.46	1.29	0.80	99.20
25	0.50	0.71	1.41	0.63	99.37	1.09	0.65	99.35	1.99	1.24	98.76
35	1.00	0.5	2.55	1.15	98.85	1.34	0.80	99.20	3.73	2.32	97.68
45	1.50	0.355	4.25	1.91	98.09	2.20	1.32	98.68	6.79	4.23	95.77
60	2.00	0.25	20.09	9.02	90.98	9.56	5.74	94.26	15.28	9.51	90.49
80	2.50	0.18	112.65	50.60	49.40	65.00	39.00	61.00	104.78	65.22	34.78
120	3.00	0.125	106.15	53.61	46.39	129.01	77.41	22.59	145.15	90.35	9.65
170	3.50	0.09	217.28	97.59	2.41	161.28	96.74	3.26	157.30	97.91	2.09
200	3.75	0.075	219.29	98.04	1.96	163.44	98.07	1.93	157.85	98.26	1.74
230	4.00	0.063	219.51	98.14	1.86	163.67	98.33	1.67	158.06	98.33	1.67
PAN			218.53	98.15		163.91	98.36		158.08	98.41	

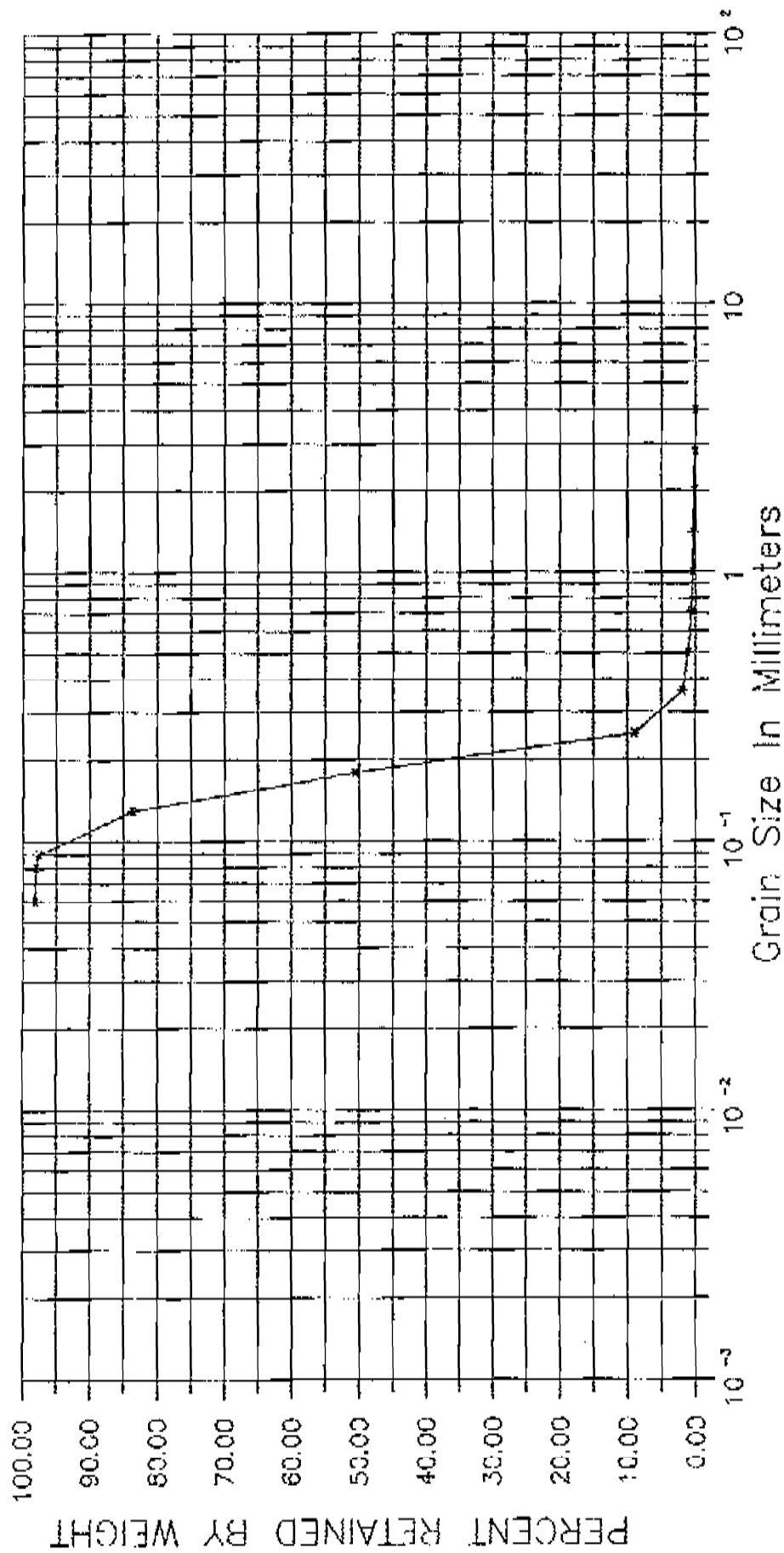
SIEVE LOSS	1.09	0.33	0.02
WEIGHTED AVE(mm)	0.164	0.117	0.132
SILT-CLAY %	1.47	1.73	1.73

GRADATION ANALYSIS REPORT
PALM BEACH VIBRACORE SAMPLES DECEMBER 1987

FOR: X SOIL CLASSIFICATION X CORING SAMPLES BRACH SAMPLES CONCRETE AGGREGATES
ENVIRONMENTAL STATION NATURAL SOIL FILL SAMPLES PIT SAMPLES

CORE NO.	13	14 b	14 b								
SAMPLE DEPTH (FT)	18.0	2.0	0.0								
U.S.C.S. DESCRIPTION	SP	SP	SP								
DRY SAMPLE WT (GRAMS)	186.42	146.66	184.21								
SAMPLE WT AFTER WASH	178.02	146.35	181.12								
SIEVE SIZE	RET SIZE	MESH SIZE (mm)	GRAMS	% RET.	% PASS	GRAMS	% RET.	% PASS	GRAMS	% RET.	% PASS
5	-2.00	4	1.69	0.91	99.09	0.00	0.00	100.00	0.42	0.23	99.77
7	-1.50	2.8	2.16	1.15	98.84	0.00	0.00	100.00	0.50	0.27	99.73
10	-1.00	2	5.03	2.70	97.30	0.40	0.27	99.73	0.71	0.39	99.61
14	-0.50	1.4	7.20	3.86	96.14	0.80	0.50	99.40	1.21	0.66	99.34
18	0.00	1	11.28	6.03	93.95	1.31	0.88	99.12	1.82	0.99	99.01
25	0.50	0.71	15.72	8.43	91.57	2.33	1.57	98.43	3.51	1.91	98.09
35	1.00	0.5	18.91	10.14	89.86	6.92	4.65	95.35	11.34	6.16	93.84
45	1.50	0.355	31.34	16.81	83.19	18.55	11.13	88.87	37.00	20.10	79.90
60	2.00	0.25	41.82	22.33	77.67	75.65	50.89	49.11	59.56	32.33	67.67
80	2.50	0.18	108.24	58.99	49.01	122.01	82.07	17.93	110.10	64.70	35.30
120	3.00	0.125	156.82	84.01	15.89	145.50	97.87	2.13	156.17	94.78	15.22
170	3.50	0.09	176.80	94.84	5.16	146.16	98.32	1.68	178.09	96.68	3.32
200	3.75	0.075	177.84	95.40	4.60	146.18	98.34	1.66	180.08	97.76	2.24
230	4.00	0.063	178.41	95.70	4.30	146.21	98.35	1.65	180.49	97.98	2.02
PAN			178.74	95.83		146.29	98.41		180.53	98.00	
SIEVE LOSS			0.28			0.26			0.58		
WEIGHTED AVE (mm)			0.294			0.193			0.225		
SILT CLAY %			4.45			1.40			1.92		

MECHANICAL ANALYSIS CHART



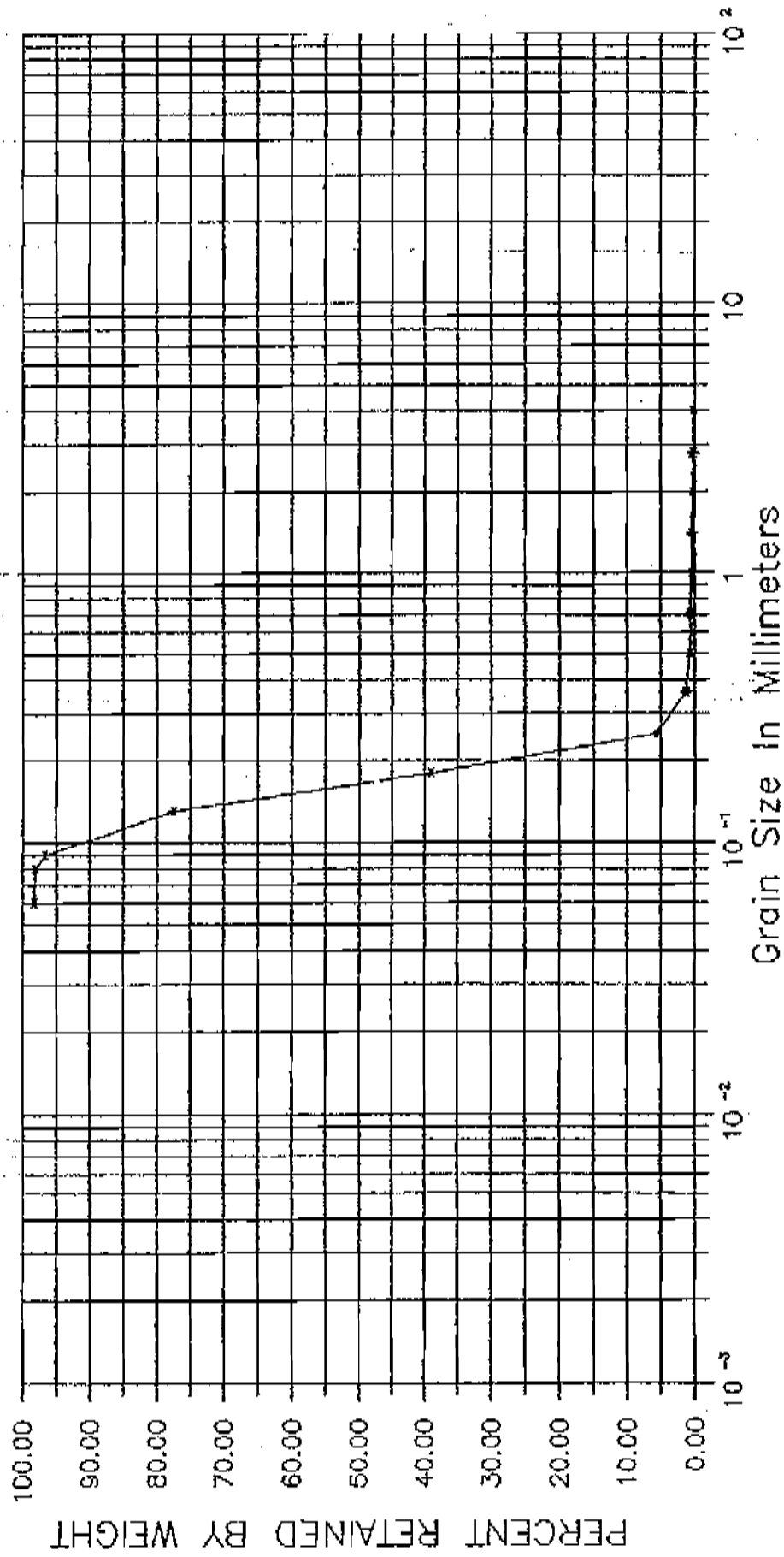
SILT OR CLAY		SAND		GRAVEL	
FINE	COARSE	FINE	COARSE	FINE	COARSE

SAMPLE NO.

CLASSIFICATION

13	MEAN	MEDIAN	SORTING
21	0.18mm	0.85mm	4.4
	0.17mm	0.85mm	3.8
	GREY POORLY GRADED SAND - (SP)		

MECHANICAL ANALYSIS CHART



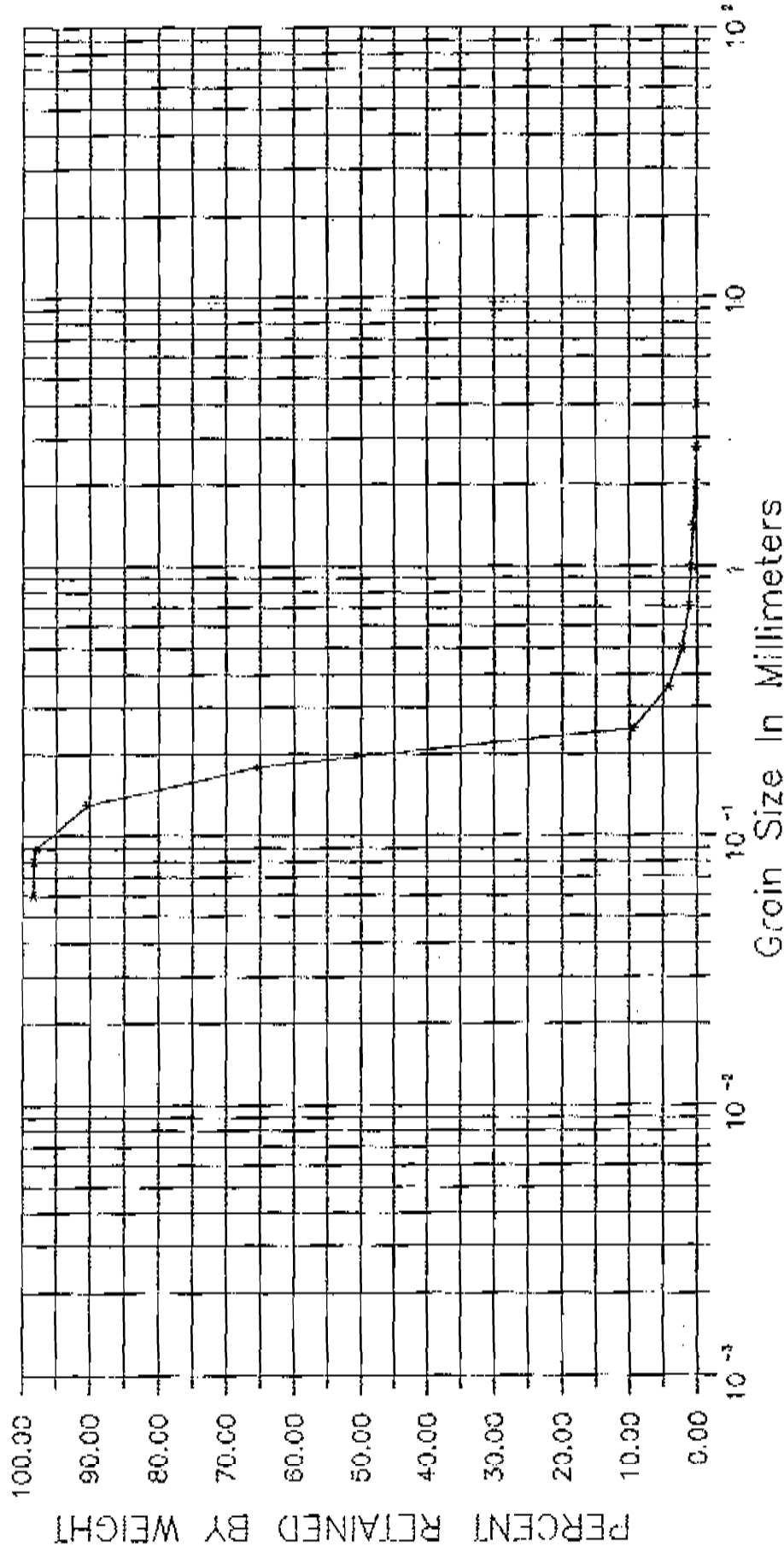
SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.

CLASSIFICATION

13	MEAN	MEDIAN	SORTING
81	0.17mm	0.17mm	1.7
	0.17mm	0.17mm	1.7
	GREY POORLY GRADED SAND (SP)		

MECHANICAL ANALYSIS CHART



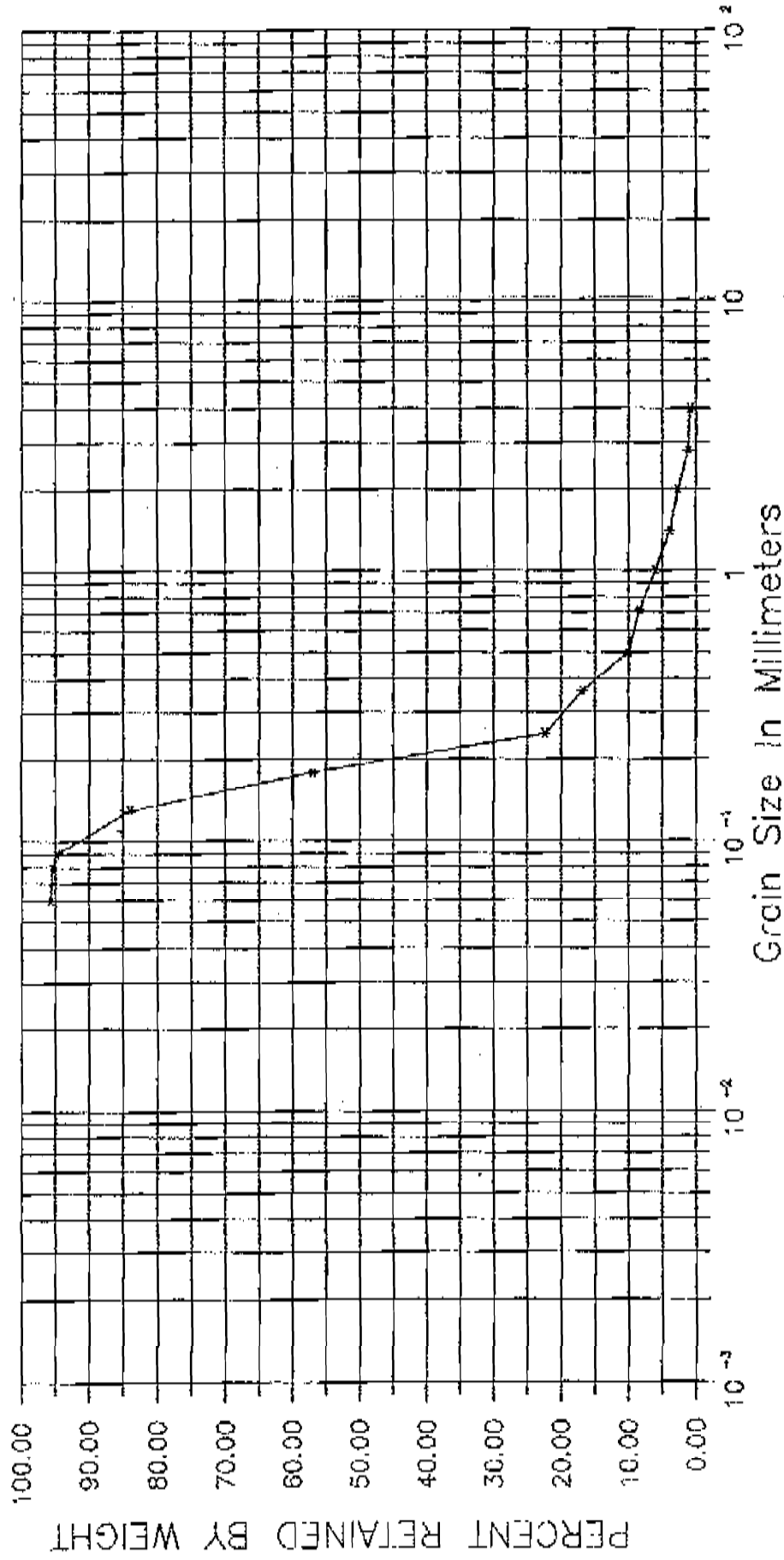
SILT OR CLAY	CLASSIFICATION				GRAVEL	
	FINE	SAND	COARSE	FINE	COARSE	

SAMPLE NO.

CLASSIFICATION

13	MEAN	MEDIAN	SORTING
141	18mm	20mm	28
	18mm	20mm	36
	GREY POORLY GRADED SAND - (SP)		

MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND				GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE	

SAMPLE NO.

CLASSIFICATION

13	MEAN	MEDIAN	SORTING
18	0.14	0.14	79
	.21	.20	.76
	GREY POORLY GRADED SAND - (SP)		