

VIBRACORE LOG

Project: <u>TOWN OF PALM BEACH</u>		Core No: <u>6</u>	
Coordinates:	Date: <u>12-16-87</u>	Water Depth <u>42'</u> NGVD	
N = <u>857236.0</u>	Start Time <u>1016</u>	Driller <u>M.L. CLARKE</u>	
E = <u>818709.5</u>	End Time <u>1025</u>	Client Rep. <u>JEFF ANDREWS</u> <u>FRED KAUB</u>	

	Elev.	Depth	Legend	Description	Samp. No.	Remarks
Core Diam. <u>3.0"</u>		0				
Length of Barrel <u>20'</u>				GREY SAND (104R 7/1)		
Penetration Depth <u>20'</u>				E SMALL SHELL		
Length Recovered <u>19'9"</u>					3.0'	(SP)
Length Retained <u>19'9"</u>						
Remarks: <u>PENETRATION TIME 9 MIN</u>						
Support Vessel <u>G.W. PIERCE</u>		5		CORAL FRAGMENT 1" DIA.		
Positioning System <u>TRISPOUNDER</u>					7.0'	(SP)
Positioning Remarks:						
Weather <u>CLEAR</u>		10				
Wind Dir: <u>NW</u>					12.0'	(SP)
Est. Speed <u>15-20 K</u>						
Waves Dir: <u>NW</u>						
Height <u>1-2'</u>						
Current Dir: <u>N/A</u>		15				
Est. Speed:						
Analysis By: <u>F.K.</u>				CORAL FRAG. 1" DIA.	18.0'	(SP)
Date: <u>12/20/87</u>						
Analysis Method: <u>VISUAL LOG</u> <u>MECHANICAL SIEVE</u>		20				

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.	5	5	6
SAMPLE DEPTH (FT)	14.7	17.7	3.0

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

DRY SAMPLE WT (GRAMS)	221.69	227.12	237.21
SAMPLE WT AFTER WASH	216.49	222.32	232.77

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	GRAMS	% RET.	% PASS		GRAMS	% RET.	% PASS		GRAMS	% RET.	% PASS	
5	-2.00	4	5.07	2.28	97.72	'	0.00	0.00	100.00	'	0.61	0.26	99.74	'
7	-1.50	2.8	6.83	3.08	96.92	'	0.31	0.14	99.86	'	1.13	0.48	99.52	'
10	-1.00	2	9.47	4.27	95.73	'	0.87	0.38	99.62	'	1.53	0.64	99.36	'
14	-0.50	1.4	13.49	6.09	93.91	'	1.32	0.58	99.42	'	2.39	1.01	98.99	'
18	0.00	1	18.15	8.19	91.81	'	1.95	0.86	99.14	'	3.35	1.41	98.59	'
25	0.50	0.71	23.49	10.60	89.40	'	2.63	1.16	98.84	'	4.76	2.01	97.99	'
35	1.00	0.5	29.44	13.28	86.72	'	4.82	2.12	97.88	'	7.59	3.20	96.80	'
45	1.50	0.355	37.75	17.03	82.97	'	13.49	5.94	94.06	'	14.81	6.24	93.76	'
60	2.00	0.25	58.78	26.51	73.49	'	52.80	23.25	76.75	'	46.17	19.46	80.54	'
80	2.50	0.18	126.10	56.88	43.12	'	137.55	60.56	39.44	'	139.40	58.77	41.23	'
120	3.00	0.125	184.45	83.20	16.80	'	192.48	84.75	15.25	'	207.33	87.40	12.60	'
170	3.50	0.09	214.10	96.58	3.42	'	221.20	97.39	2.61	'	230.99	97.38	2.62	'
200	3.75	0.075	216.00	97.43	2.57	'	222.00	97.75	2.25	'	231.74	97.69	2.31	'
230	4.00	0.063	216.31	97.57	2.43	'	222.12	97.80	2.20	'	231.80	97.72	2.28	'
PAN			216.40			'	222.15			'	232.00			'

SIEVE LOSS	0.09	0.17	0.77
WEIGHTED AVE (mm)	0.362	0.193	0.204
SILT-CLAY %	2.53	2.18	1.98

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.	6	6	6
SAMPLE DEPTH (FT)	7.0	12.0	18.0

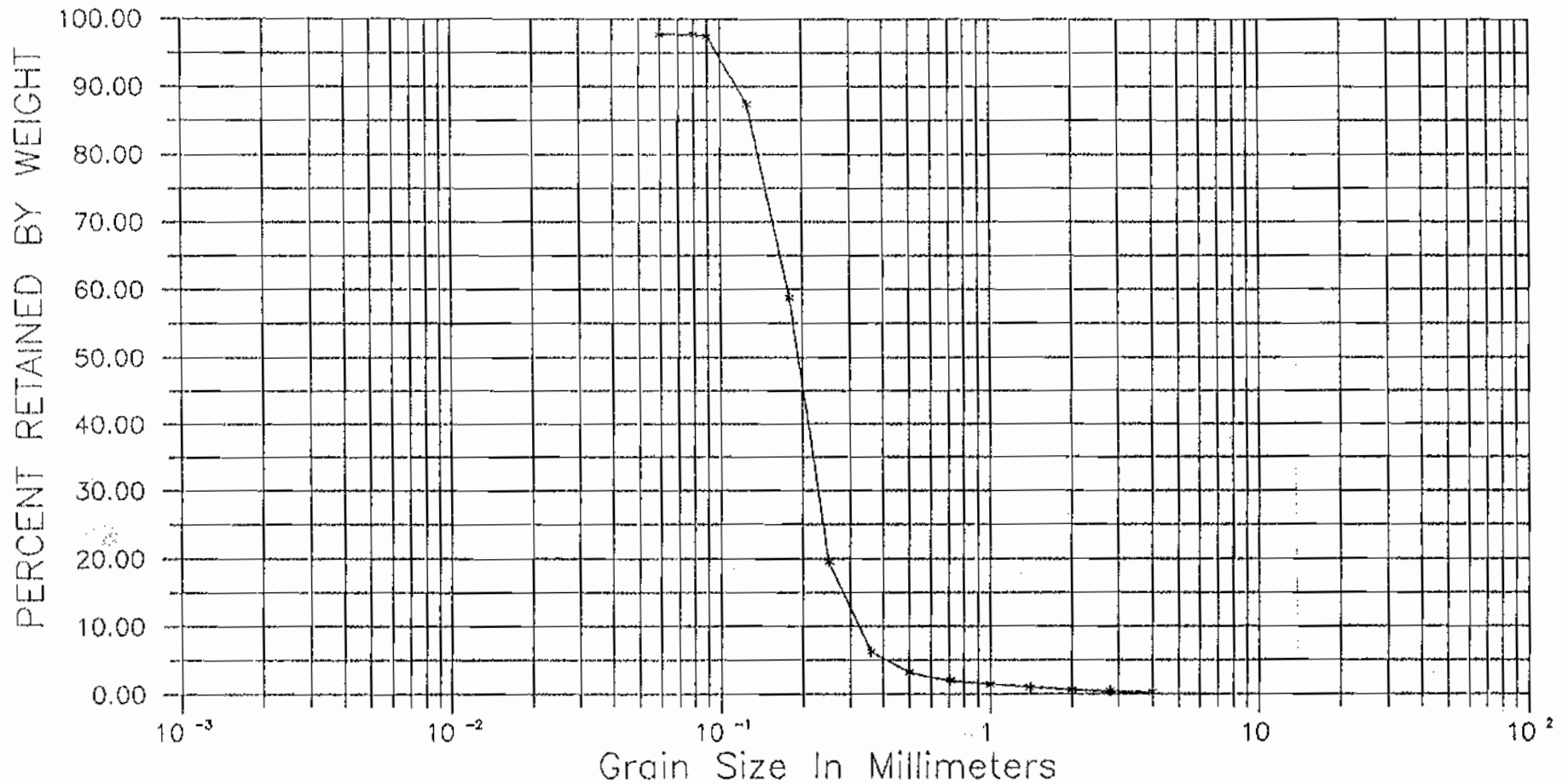
U.S.C.S.	SP	SP	SP
DESCRIPTION			

DRY SAMPLE WT (GRAMS)	207.61	248.41	243.46
SAMPLE WT AFTER WASH	204.28	243.73	234.56

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	GRAMS	% RET.	% PASS		GRAMS	% RET.	% PASS		GRAMS	% RET.	% PASS	
5	-2.00	4	1.34	0.65	99.35	,	0.00	0.00	100.00	,	0.95	0.39	99.61	,
7	-1.50	2.8	2.30	1.11	98.89	,	0.10	0.04	99.96	,	1.50	0.62	99.38	,
10	-1.00	2	3.47	1.67	98.33	,	0.20	0.08	99.92	,	2.55	1.05	98.95	,
14	-0.50	1.4	4.03	1.94	98.06	,	0.41	0.17	99.83	,	3.83	1.57	98.43	,
18	0.00	1	5.74	2.76	97.24	,	0.80	0.32	99.68	,	6.18	2.54	97.46	,
25	0.50	0.71	7.00	3.37	96.63	,	1.61	0.65	99.35	,	8.57	3.52	96.48	,
35	1.00	0.5	9.10	4.38	95.62	,	2.90	1.17	98.83	,	15.12	6.21	93.79	,
45	1.50	0.355	17.82	8.58	91.42	,	5.00	2.01	97.99	,	24.68	10.14	89.86	,
60	2.00	0.25	38.54	18.56	81.44	,	15.30	6.16	93.84	,	47.15	19.37	80.63	,
80	2.50	0.18	86.72	41.77	58.23	,	121.01	48.71	51.29	,	139.00	57.09	42.91	,
120	3.00	0.125	108.51	52.27	47.73	,	208.42	83.90	16.10	,	206.95	85.00	15.00	,
170	3.50	0.09	201.40	97.01	2.99	,	242.67	97.69	2.31	,	232.49	95.49	4.51	,
200	3.75	0.075	203.13	97.84	2.16	,	243.28	97.93	2.07	,	233.72	96.00	4.00	,
230	4.00	0.063	203.39	97.97	2.03	,	243.60	98.06	1.94	,	234.12	96.16	3.84	,
PAN			203.80	98.16		,	243.70	98.10		,	234.17	96.18		,

SIEVE LOSS	0.48	0.03	0.39
WEIGHTED AVE (mm)	0.212	0.160	0.228
SILT-CLAY %	1.93	2.05	3.84

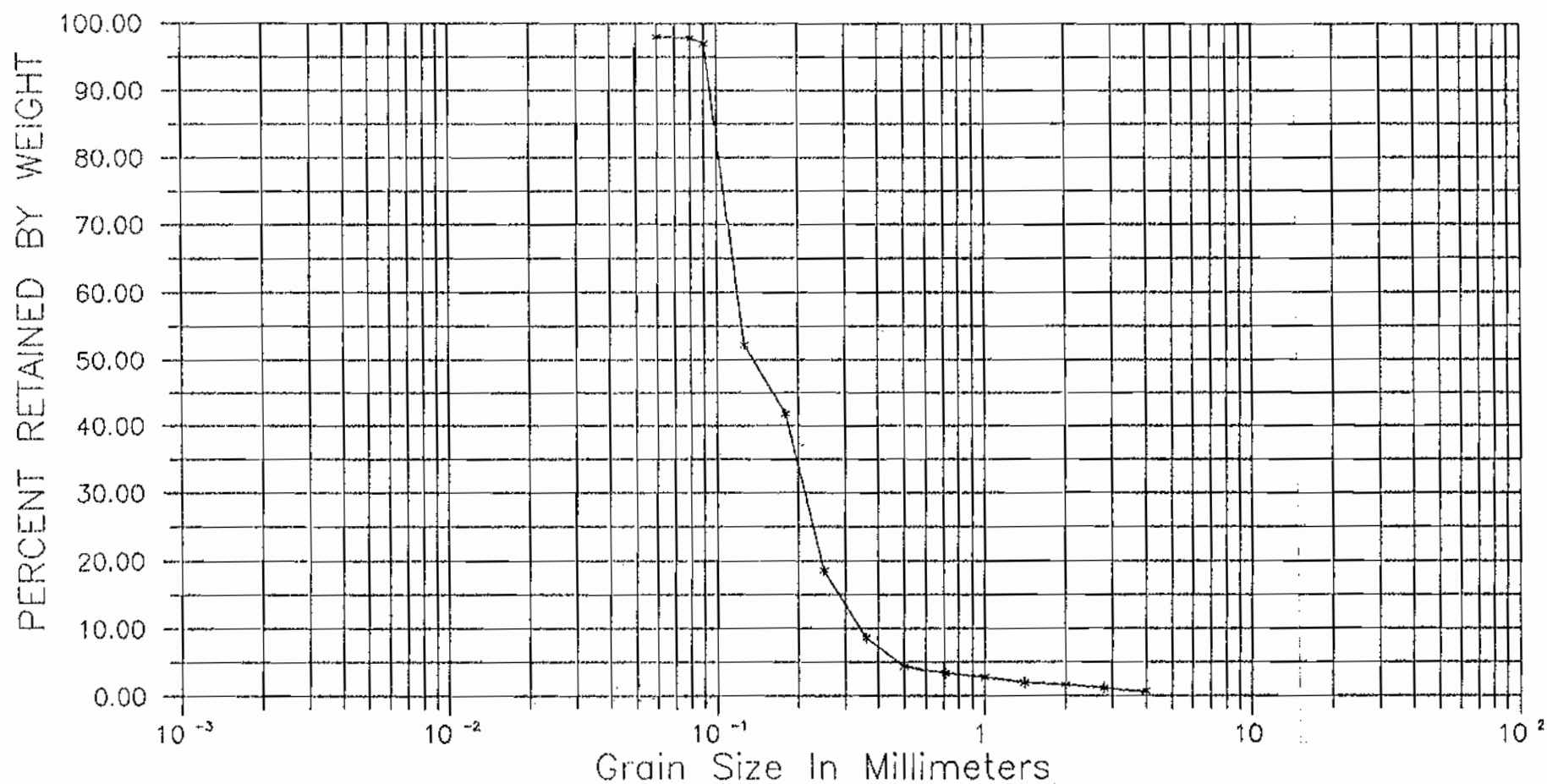
MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.	CLASSIFICATION		
6	MEAN	MEDIAN	SORTING
3'	.19 mm	.19 mm	.50
	.19	.20	.55
	GREY POORLY GRADED SAND & SHELL FRAGMENTS (SP)		

MECHANICAL ANALYSIS CHART



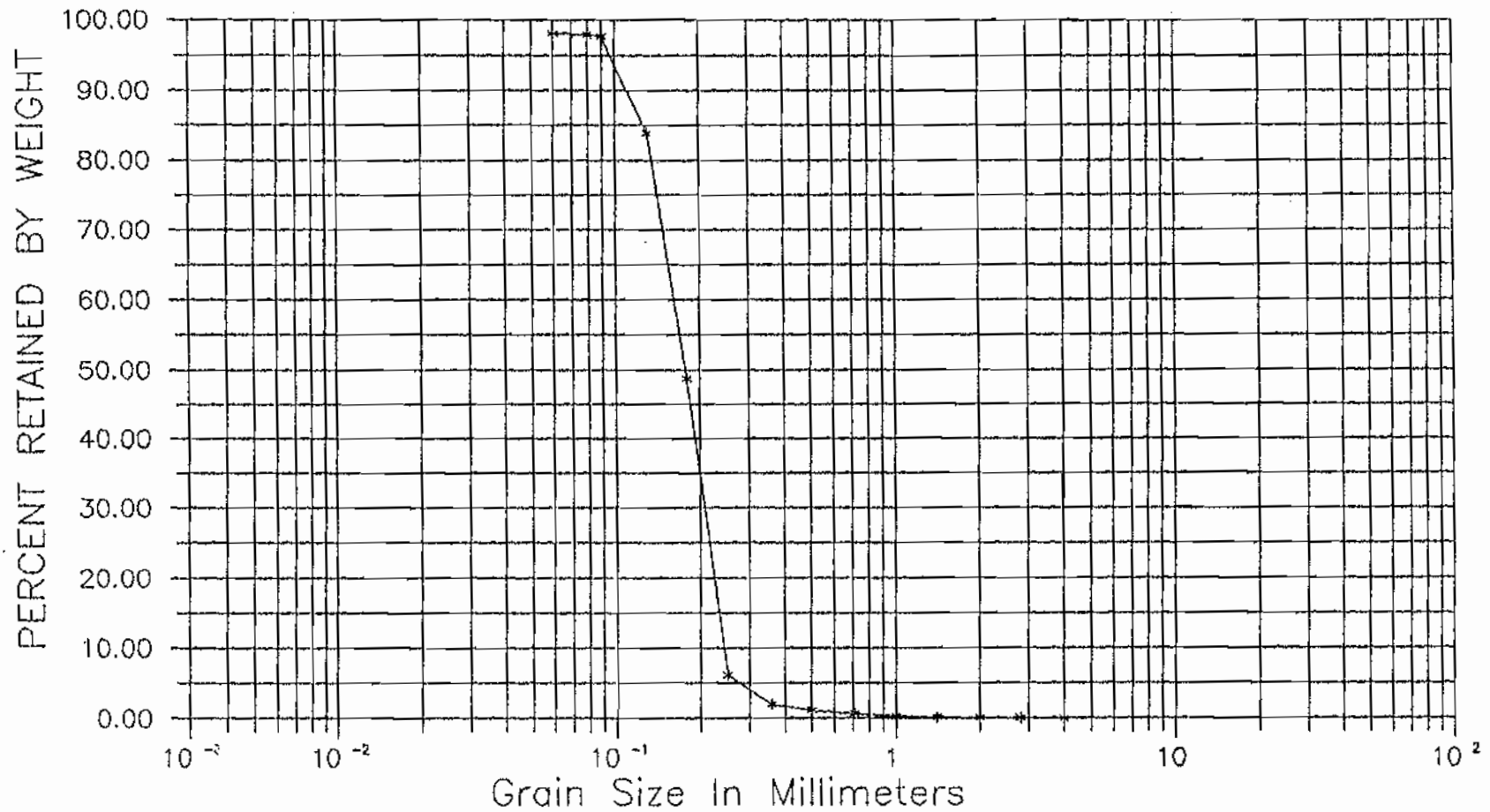
SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.

CLASSIFICATION

6	MEAN	MEDIAN	SORTING
7'	.16	.15	.77
	.16	.14	.72
GREY POORLY GRADED SAND - (SP)			

MECHANICAL ANALYSIS CHART



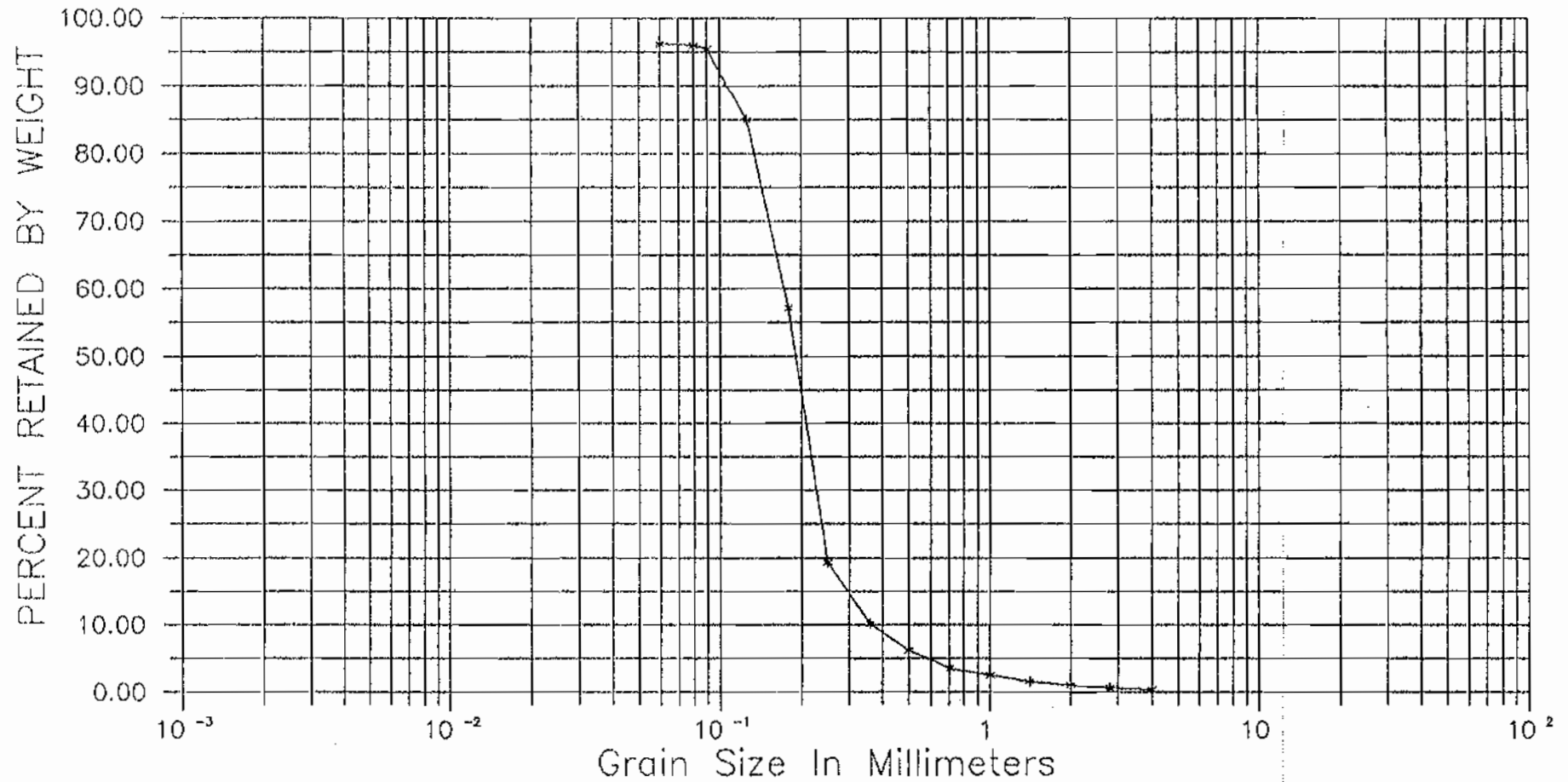
SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

PLE NO.

CLASSIFICATION

6	MEAN	MEDIAN	SORTING
12	.18	.18	.36
	.17	.18	.38
	GREY POORLY GRADED SAND - (SP)		

MECHANICAL ANALYSIS CHART



SILT OR CLAY		SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.

CLASSIFICATION

6	MEAN	MEDIAN	SORTING
18'	.17	.19	.58
	.19	.20	.55
GREY POORLY GRADED SAND-(SP)			