

VIBRACORE LOG

Project: _____		Core No: <u>15</u>	
Coordinates:		Date: <u>12-17-87</u>	Water Depth <u>44'</u> NGVD
N = <u>868530.2</u>		Start Time <u>1342</u>	Driller <u>M. L. CLARKE</u>
E = <u>818678.9</u>		End Time <u>1355</u>	Client Rep. <u>KIM BEACHLER</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) W/ SCATTERED CORAL FRAGS	2.0	(SP)
Penetration Depth <u>20'</u>						
Length Recovered <u>18.5'</u>		5				
Length Retained <u>18.5'</u>						
Remarks: <u>PENETRATION TIME 13MIN</u>						
Support Vessel <u>G.W. PIERCE</u>						
Positioning System <u>TRISPONDER</u>					7.0	(SP)
Positioning Remarks:						
		10	B ←	CORAL .5"		
Weather <u>CLEAR</u>						
Wind						
Dir: <u>NW</u>				GREY SAND (104R 6/2)		
Est. Speed <u>15-20 K</u>					13.0	(SP)
Waves						
Dir: <u>NW</u>						
Height <u>3-5</u>						
Current						
Dir: <u>N/A</u>		15		GREY SAND (104R 7/1) W/ CEMENTED SAND & SHELL CONGLOMERATES		→ UPTO 2" DIA
Est. Speed: _____				COARSE SAND		
Analysis By: <u>FK</u>					18.0	(SM)
Date: <u>12-21-87</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.	14 ^b	14 ^b	15
SAMPLE DEPTH (FT)	14.0	18.0	2.0

U.S.C.S. DESCRIPTION	SP-SM	SP	SP
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DRY SAMPLE WT (GRAMS)	220.59	192.36	163.23
SAMPLE WT AFTER WASH	205.59	189.35	160.25

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	GRAMS	% RET.	% PASS		GRAMS	% RET.	% PASS		GRAMS	% RET.	% PASS
5	-2.00	4	0.31	0.14	99.86	,	4.28	2.22	97.78	,	0.00	0.00	100.00
7	-1.50	2.8	0.69	0.31	99.69	,	4.51	2.34	97.66	,	0.23	0.14	99.86
10	-1.00	2	1.25	0.57	99.43	,	4.86	2.53	97.47	,	0.53	0.32	99.68
14	-0.50	1.4	2.40	1.09	98.91	,	5.22	2.71	97.29	,	1.20	0.74	99.26
18	0.00	1	5.19	2.35	97.65	,	6.03	3.13	96.87	,	1.72	1.05	98.95
25	0.50	0.71	12.04	5.46	94.54	,	6.49	3.37	96.63	,	2.30	1.41	98.59
35	1.00	0.5	35.12	15.92	84.08	,	7.51	3.90	96.10	,	3.43	2.10	97.90
45	1.50	0.355	83.26	37.74	62.26	,	10.06	5.23	94.77	,	7.11	4.36	95.64
60	2.00	0.25	123.79	56.12	43.88	,	22.69	11.80	88.20	,	17.11	10.48	89.52
80	2.50	0.18	166.23	75.36	24.64	,	79.62	41.39	58.61	,	89.90	55.08	44.92
120	3.00	0.125	190.00	86.13	13.87	,	138.85	72.18	27.82	,	140.74	86.22	13.78
170	3.50	0.09	204.22	92.58	7.42	,	188.11	97.79	2.21	,	158.64	97.19	2.81
200	3.75	0.075	205.05	92.96	7.04	,	188.99	98.25	1.75	,	158.98	97.40	2.60
230	4.00	0.063	205.24	93.04	6.96	,	189.14	98.33	1.67	,	159.20	97.53	2.47
PAN			205.32	93.08		,	189.19	98.35		,	159.26	97.57	

SIEVE LOSS	0.27	0.16	0.99
WEIGHTED AVE(mm)	0.309	0.228	0.139
SILT-CLAY %	6.92	1.67	2.00

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.	15	15	15
SAMPLE DEPTH (FT)	7.0	13.0	18.0

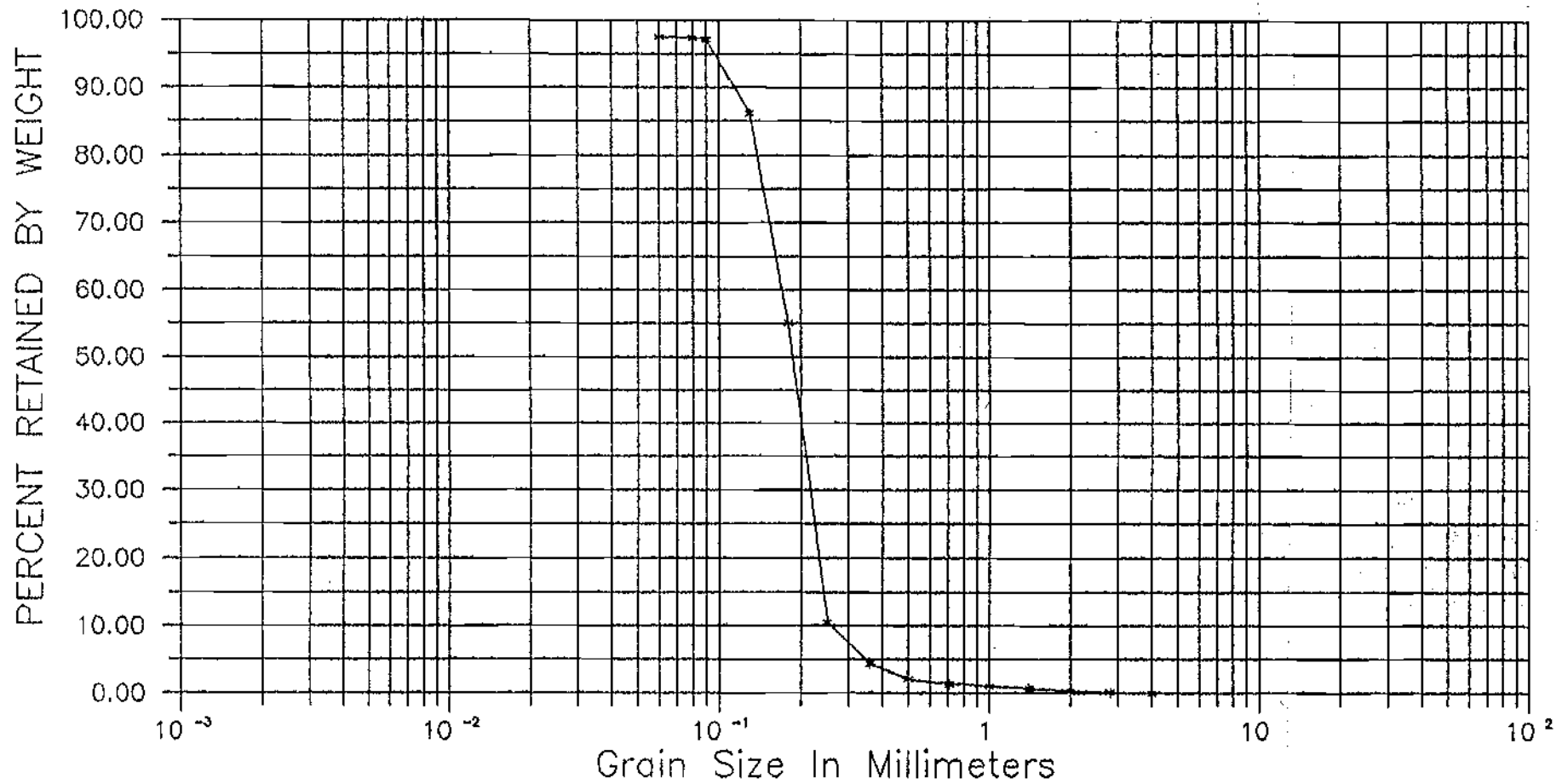
U.S.C.S. DESCRIPTION	SP	SP	SM
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DRY SAMPLE WT (GRAMS)	195.71	198.18	162.20
SAMPLE WT AFTER WASH	192.03	193.74	151.65

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	GRAMS	% RET.	% PASS		GRAMS	% RET.	% PASS		GRAMS	% RET.	% PASS
5	-2.00	4	0.00	0.00	100.00	,	0.00	0.00	100.00	,	9.37	5.78	94.22
7	-1.50	2.8	0.21	0.11	99.89	,	0.19	0.10	99.90	,	10.91	6.73	93.27
10	-1.00	2	0.72	0.37	99.63	,	0.96	0.48	99.52	,	12.39	7.64	92.36
14	-0.50	1.4	1.38	0.71	99.29	,	1.25	0.63	99.37	,	14.00	8.63	91.37
18	0.00	1	4.89	2.50	97.50	,	1.60	0.81	99.19	,	16.41	10.12	89.88
25	0.50	0.71	9.02	4.61	95.39	,	2.00	1.01	98.99	,	20.40	12.58	87.42
35	1.00	0.5	15.98	8.17	91.83	,	2.95	1.49	98.51	,	28.00	17.26	82.74
45	1.50	0.355	27.83	14.22	85.78	,	5.48	2.77	97.23	,	40.72	25.10	74.90
60	2.00	0.25	87.42	44.67	55.33	,	15.56	7.85	92.15	,	57.99	35.75	64.25
80	2.50	0.18	100.91	51.56	48.44	,	93.62	47.24	52.76	,	97.73	60.25	39.75
120	3.00	0.125	154.40	78.89	21.11	,	149.22	75.30	24.70	,	129.45	79.81	20.19
170	3.50	0.09	190.85	97.52	2.48	,	192.00	96.88	3.12	,	149.33	92.07	7.93
200	3.75	0.075	191.87	98.04	1.96	,	193.30	97.54	2.46	,	150.57	92.83	7.17
230	4.00	0.063	191.90	98.05	1.95	,	193.51	97.64	2.36	,	151.12	93.17	6.83
PAN			191.95			,	193.57			,	151.20		

SIEVE LOSS	0.08	0.17	0.45
WEIGHTED AVE(mm)	0.229	0.167	0.406
SILT-CLAY %	1.92	2.38	6.89

MECHANICAL ANALYSIS CHART



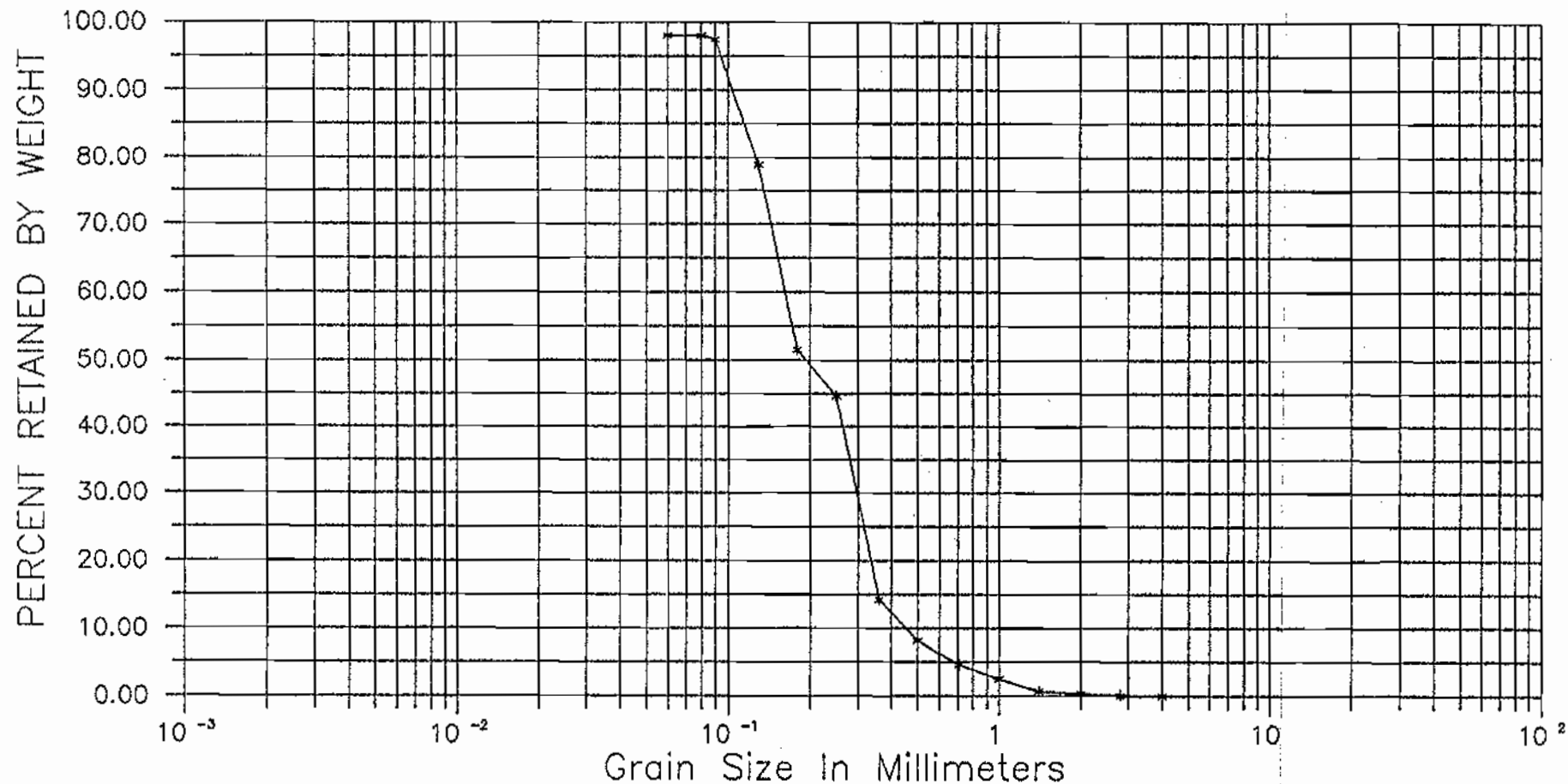
SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.

CLASSIFICATION

15	MEAN	MEDIAN	SORTING
21			
	.18mm	.19mm	.38
	GREY POORLY GRADED SAND & SCATTERED SHELL - (SP)		

MECHANICAL ANALYSIS CHART



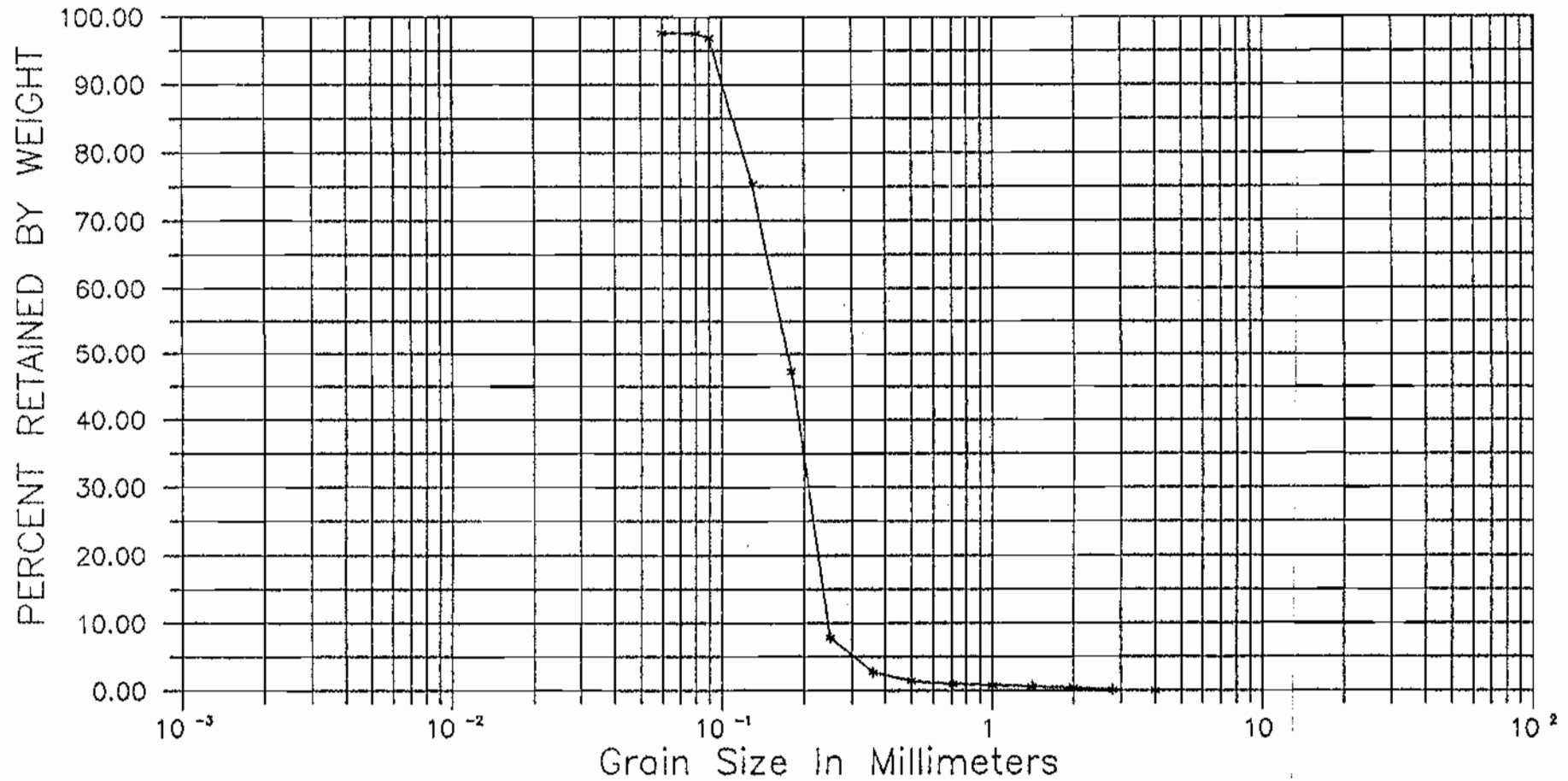
SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.

CLASSIFICATION

15	MEAN	MEDIAN	SORTING
7'			
	.20mm	.20mm	.76
	GREY POORLY GRADED SAND - (SP)		

MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

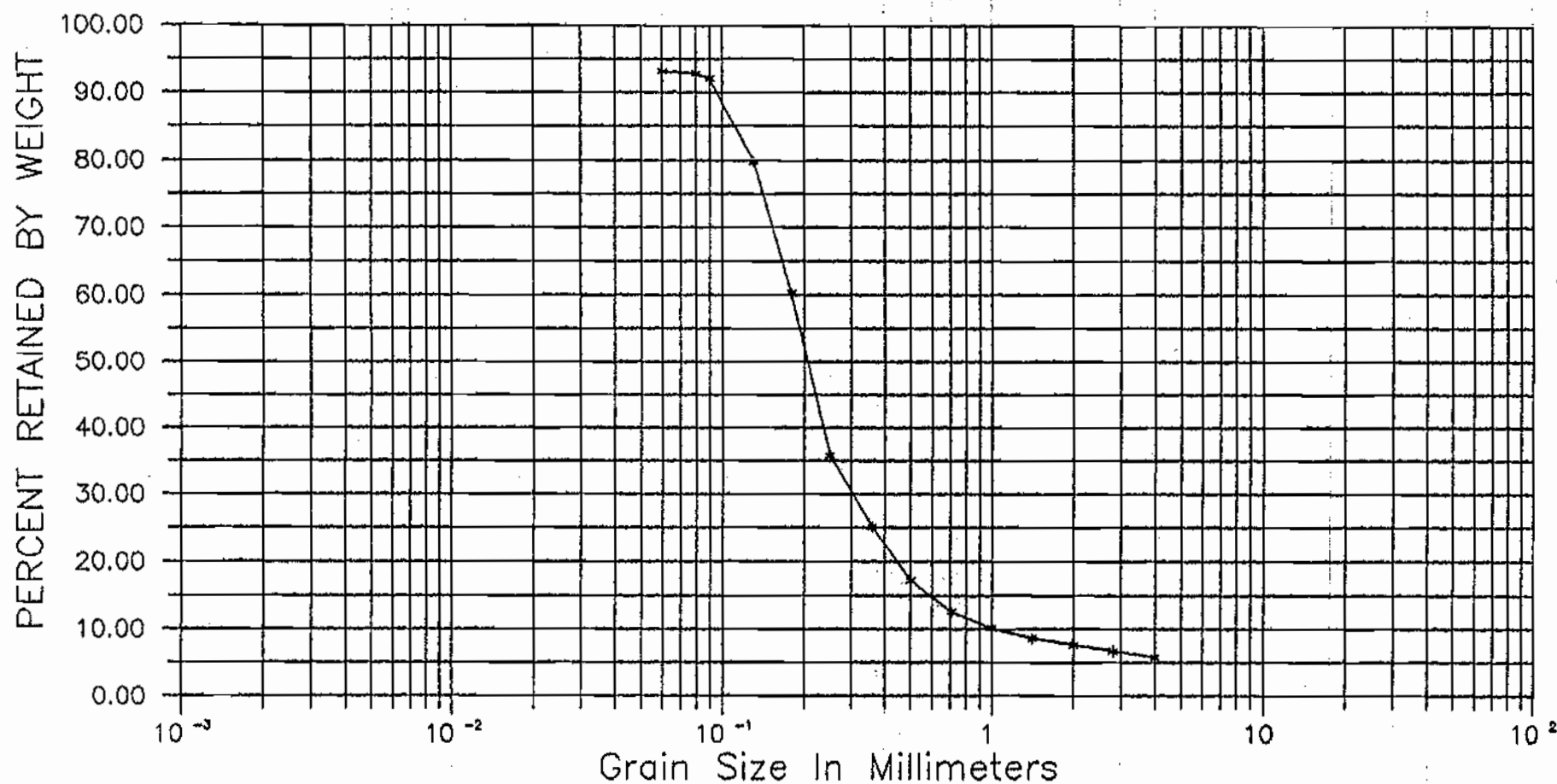
SAMPLE NO.

CLASSIFICATION

15	MEAN	MEDIAN	SORTING
13	.17mm	.18mm	50
	.16mm	.17mm	.50
	GREY POORLY GRADED SAND - (SP)		

(59)

MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.	CLASSIFICATION		
15	MEAN	MEDIAN	SORTING
18	25mm	20mm	1.0
	23mm	20mm	1.00
	GREY POORLY GRADED SAND & CORAL FRAGMENTS - (SM)		