

VIBRACORE LOG

Project: <u>TOWN OF PALM BEACH</u> Core No: <u>9</u>						
Coordinates: N = <u>859243.1</u> E = <u>817851.9</u>		Date: <u>12-16-87</u> Start Time <u>1434</u> End Time <u>1440</u>		Water Depth <u>31'</u> NGVD Driller <u>M. L. CLARKE</u> <u>JEFF ANDREWS</u> Client Rep. <u>FRED KAUB</u>		
Core Diam. <u>3.0"</u> Length of Barrel <u>20'</u> Penetration Depth <u>20'</u> Length Recovered <u>19'5"</u> Length Retained <u>19'5"</u> Remarks: <u>PENETRATION TIME 6 MIN</u>	Elev.	Depth	Legend	Description	Samp. No.	Remarks
		0		GREY SAND (104R 6/11)		
		5		BROWN SAND (104R 7/3) w/SCATTERED SHELL FRAG.	3.2	(SP)
		10		GREY SAND (104R 7/2)	7.0	(SP)
		15		GREY SAND w/ CEMENTED SHELL & SAND CONGL.	14.2	(SP)
		20		SCATTERED CORAL BROWN SAND (104R 7/3) w/ SCATTERED SHELL FRAG CEMENTED SHELL & SAND CONGL. <1" DIA	18.0	(SP)
Support Vessel <u>G.W. PIERCE</u> Positioning System <u>TRISPOUNDER</u> Positioning Remarks:						
Weather <u>CLEAR</u> Wind Dir: <u>NW</u> Est. Speed <u>15-20K</u> Waves Dir: <u>NW</u> Height <u>1-2'</u> Current Dir: <u>N/A</u> Est. Speed:						
Analysis By: <u>FK</u> Date: <u>12/20/87</u> Analysis Method: <u>VISUAL LOG</u> <u>MECHANICAL SIEVE</u>						

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.	8					8					9				
SAMPLE DEPTH (FT)	13.7					19.0					3.2				
U.S.C.S.	SP					SP					SP				
DESCRIPTION															
DRY SAMPLE WT (GRAMS)	235.87					241.82					222.05				
SAMPLE WT AFTER WASH	231.91					237.01					218.45				
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	GRAMS	% RET.	% PASS		GRAMS	% RET.	% PASS		GRAMS	% RET.	% PASS		
5	-2.00	4	2.79	1.18	98.82	,	0.00	0.00	100.00	,	2.32	1.04	98.96	,	
7	-1.50	2.8	4.87	2.06	97.94	,	0.11	0.05	99.95	,	2.60	1.17	98.83	,	
10	-1.00	2	9.00	3.82	96.18	,	0.82	0.34	99.66	,	2.78	1.25	98.75	,	
14	-0.50	1.4	15.92	6.75	93.25	,	1.84	0.76	99.24	,	3.26	1.47	98.53	,	
18	0.00	1	30.31	12.85	87.15	,	3.51	1.45	98.55	,	4.26	1.92	98.08	,	
25	0.50	0.71	47.95	20.33	79.67	,	6.41	2.65	97.35	,	5.61	2.53	97.47	,	
35	1.00	0.5	77.83	33.00	67.00	,	13.72	5.67	94.33	,	10.51	4.73	95.27	,	
45	1.50	0.355	101.78	43.15	56.85	,	28.47	11.77	88.23	,	25.51	11.49	88.51	,	
60	2.00	0.25	120.08	50.91	49.09	,	68.41	28.29	71.71	,	68.81	30.99	69.01	,	
80	2.50	0.18	189.55	80.36	19.64	,	163.86	67.76	32.24	,	161.10	72.55	27.45	,	
120	3.00	0.125	222.10	94.16	5.84	,	211.10	87.30	12.70	,	201.40	90.70	9.30	,	
170	3.50	0.09	230.51	97.73	2.27	,	235.39	97.34	2.66	,	217.05	97.75	2.25	,	
200	3.75	0.075	231.05	97.96	2.04	,	236.61	97.85	2.15	,	217.80	98.09	1.91	,	
230	4.00	0.063	231.23	98.03	1.97	,	236.90	97.97	2.03	,	217.91	98.14	1.86	,	
PAN			231.30	98.06		,	236.99	98.00		,	218.30	98.31		,	
SIEVE LOSS	0.61					0.02					0.15				
WEIGHTED AVE(mm)	0.464					0.217					0.252				
SILT-CLAY %	1.78					2.15					1.85				

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ENVIRONMENTAL STATION NATURAL SOIL FILL SAMPLES PIT SAMPLES

CORE NO.	9	9	9
SAMPLE DEPTH (FT)	7	14.0	18.0

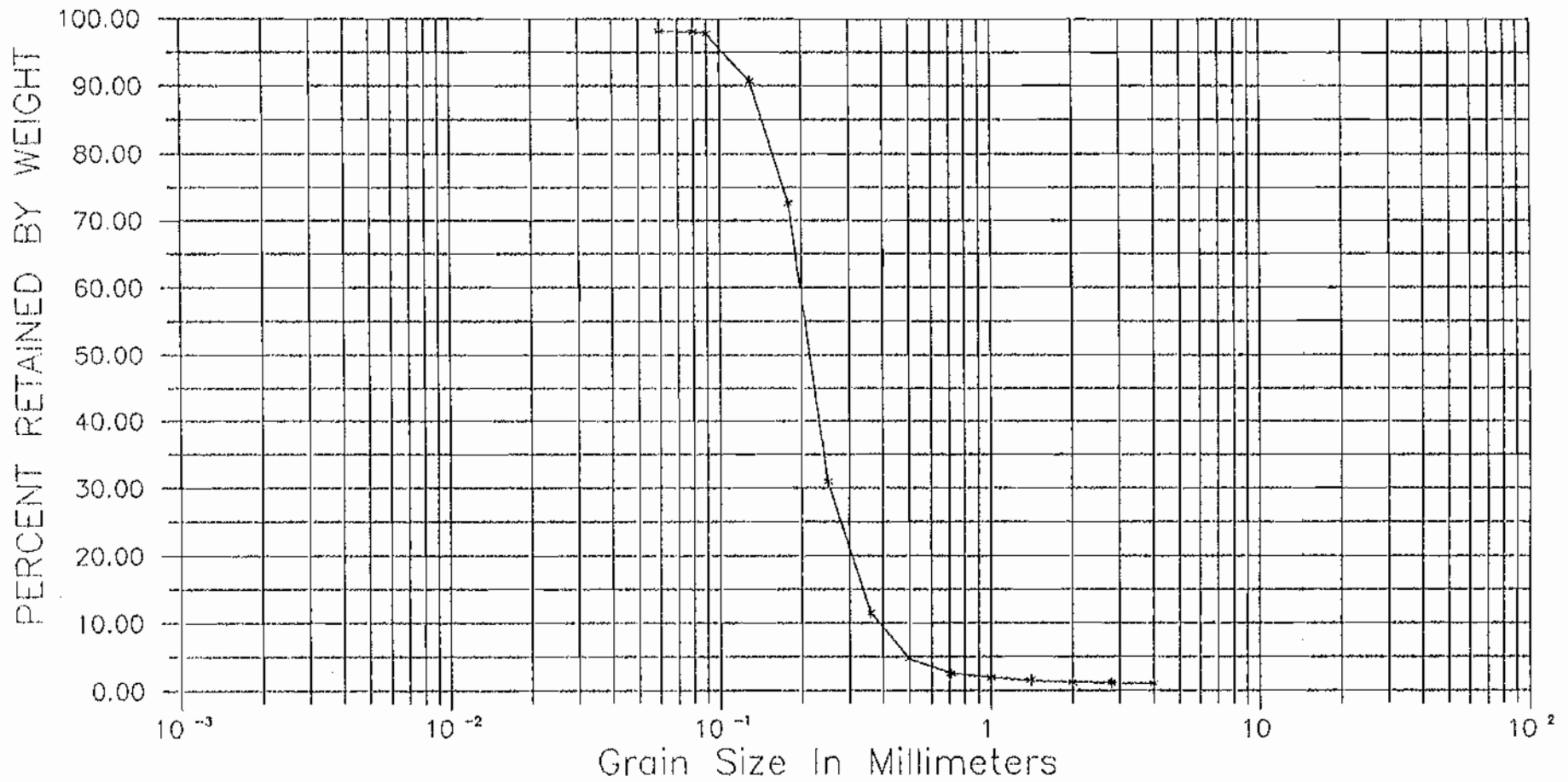
U.S.C.S. DESCRIPTION	SP	SP	SP
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DRY SAMPLE WT (GRAMS)	227.89	266.85	242.17
SAMPLE WT AFTER WASH	225.45	262.51	237.21

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	GRAMS	% RET.	% PASS	GRAMS	% RET.	% PASS	GRAMS	% RET.	% PASS			
5	-2.00	4	1.20	0.53	99.47	'	6.79	2.54	97.46	'	0.39	0.16	99.84	'
7	-1.50	2.8	1.70	0.75	99.25	'	10.25	3.84	96.16	'	0.39	0.16	99.84	'
10	-1.00	2	2.14	0.94	99.06	'	15.72	5.89	94.11	'	0.42	0.17	99.83	'
14	-0.50	1.4	3.40	1.49	98.51	'	21.89	8.20	91.80	'	0.59	0.24	99.76	'
18	0.00	1	4.50	1.97	98.03	'	30.52	11.44	88.56	'	1.12	0.46	99.54	'
25	0.50	0.71	6.00	2.63	97.37	'	38.68	14.50	85.50	'	1.86	0.77	99.23	'
35	1.00	0.5	8.84	3.88	96.12	'	49.27	18.46	81.54	'	4.31	1.78	98.22	'
45	1.50	0.355	13.91	6.10	93.90	'	64.05	24.00	76.00	'	16.21	6.69	93.31	'
60	2.00	0.25	38.73	17.00	83.00	'	113.55	42.55	57.45	'	63.50	26.22	73.78	'
80	2.50	0.18	139.36	61.15	38.85	'	202.64	75.94	24.06	'	143.32	59.18	40.82	'
120	3.00	0.125	201.47	88.41	11.59	'	238.49	89.37	10.63	'	201.79	83.33	16.67	'
170	3.50	0.09	223.90	98.25	1.75	'	250.91	94.03	5.97	'	235.71	97.33	2.67	'
200	3.75	0.075	224.72	98.61	1.39	'	261.71	98.07	1.93	'	236.42	97.63	2.37	'
230	4.00	0.063	224.92	98.70	1.30	'	262.34	98.31	1.69	'	236.71	97.75	2.25	'
PAN			225.02	98.74		'	262.40	98.33		'	236.72	97.75		'

SIEVE LOSS	0.43	0.11	0.49
WEIGHTED AVE(mm)	0.216	0.444	0.191
SILT-CLAY %	1.20	1.88	2.17

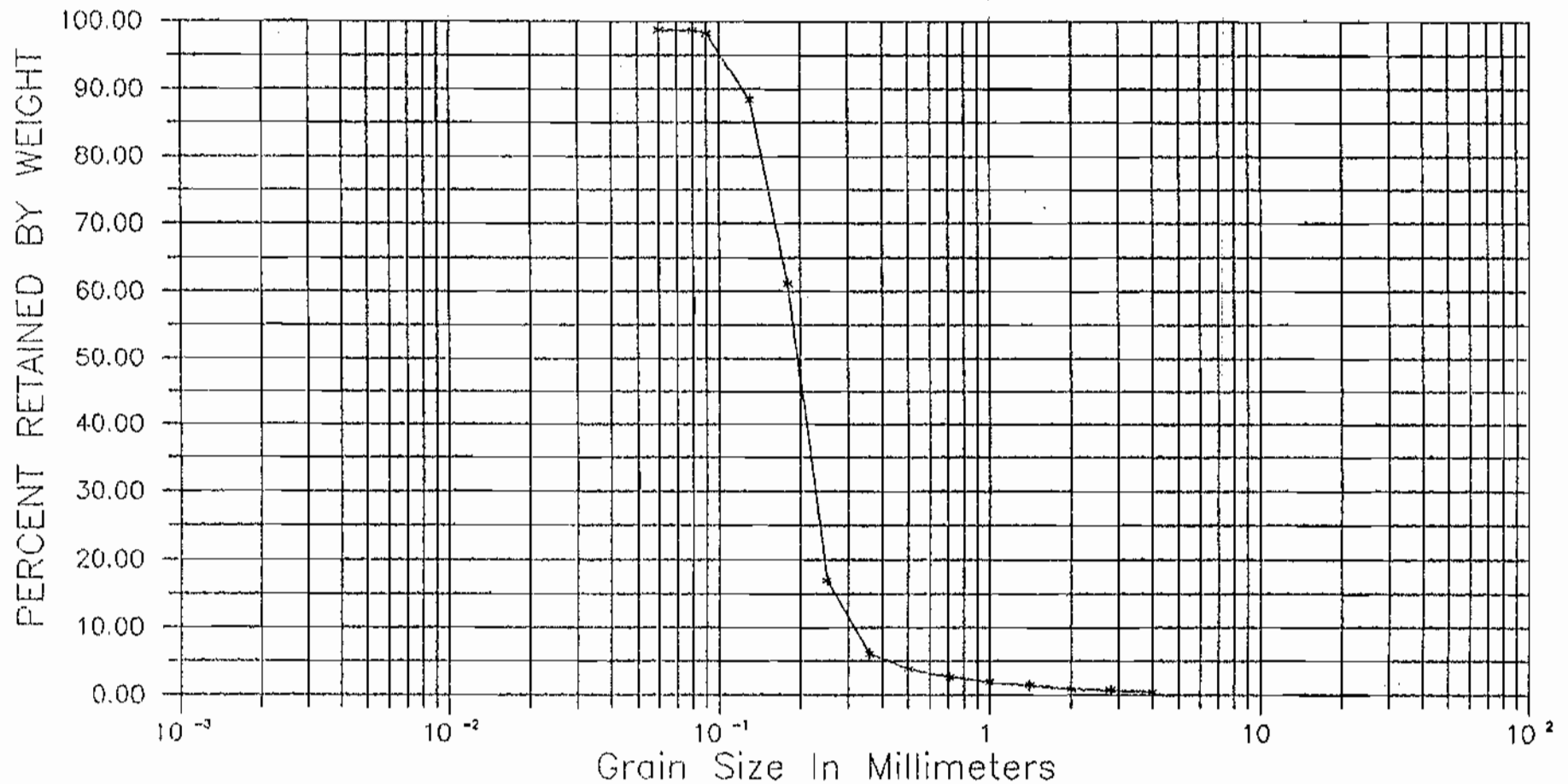
MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.	CLASSIFICATION		
9	MEAN	MEDIAN	SORTING
3.2'	.23 mm	.22 mm	.57
	.22 mm	.21 mm	.57
	BROWN POORLY GRADED SAND & SCATTERED SHELL FRAG-(SP)		

MECHANICAL ANALYSIS CHART



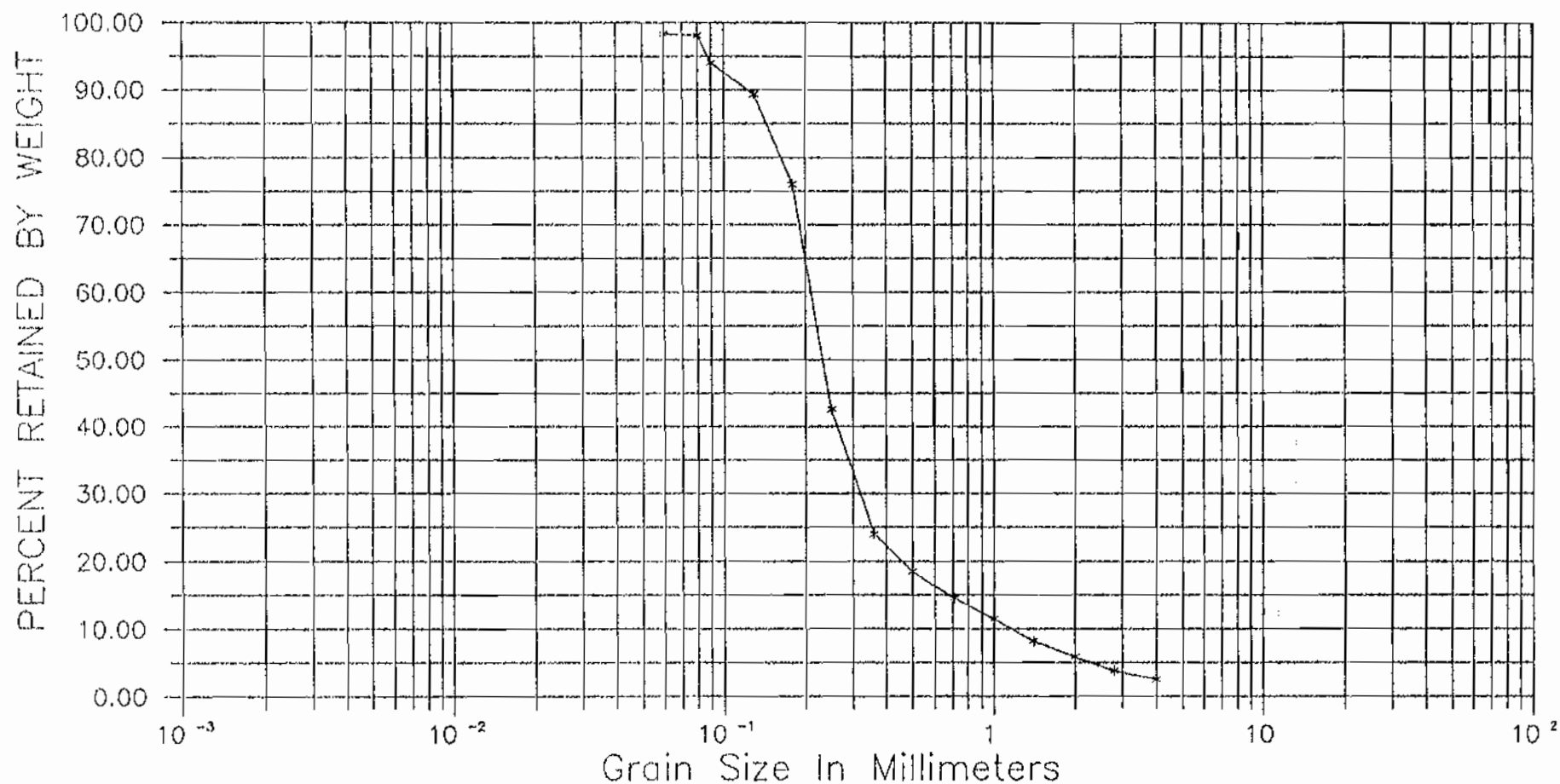
SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.

CLASSIFICATION

9	MEAN	MEDIAN	SORTING
7'	20.44	20.44	1.0
	.19 mm	.20 mm	.50
	GREY POORLY GRADED SAND - (SP)		

MECHANICAL ANALYSIS CHART



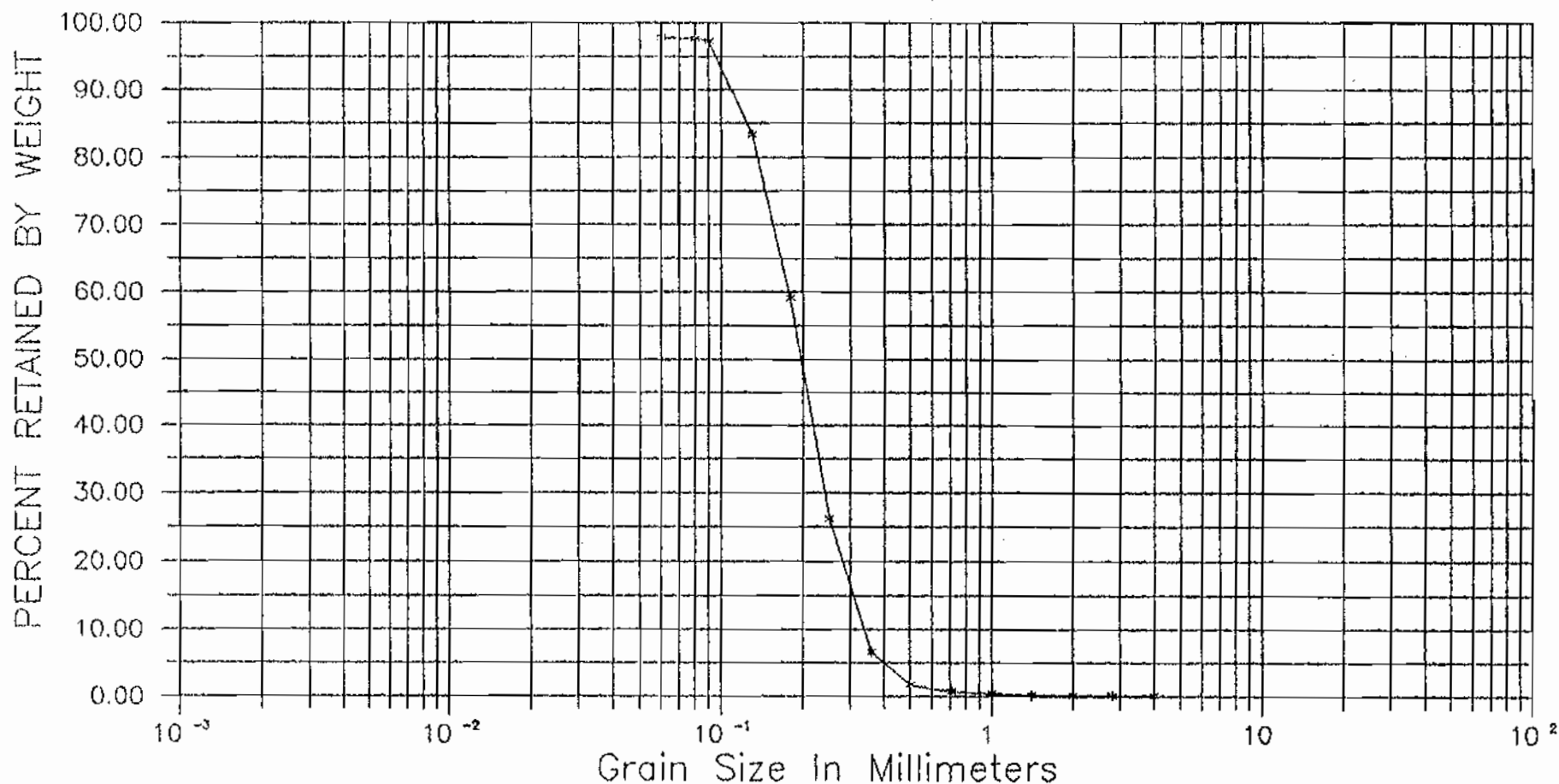
SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.

CLASSIFICATION

4	MEAN	MEDIAN	SORTING
1412	.29mm	.25mm	1.0
	.27mm	.21mm	1.00
	GREY POORLY GRADED SAND & SHELL FRAGMENTS - (SP)		

MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.	CLASSIFICATION		
9	MEAN	MEDIAN	SORTING
18'	.20mm	.20mm	.60
	.20mm	.20mm	.63
BROWN POORLY GRADED SAND & SCATTERED SHELL FRAG (SP)			