

VIBRACORE LOG

Project: <u>TOWN OF PALM BEACH</u>		Core No: <u>10</u>	
Coordinates:		Date: <u>12-16-87</u>	Water Depth <u>36'</u> NGVD
N = <u>859591.1</u>		Start Time <u>1604</u>	Driller <u>M.L. CLARKE</u>
E = <u>818294.9</u>		End Time <u>1610</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		GREY SAND (104R 7/1)		
Length of Barrel <u>20'</u>					2.0'	(SP)
Penetration Depth <u>20'</u>				BROWN SAND (104R 7/3)		
Length Recovered <u>19'10"</u>		5				
Length Retained <u>19'10"</u>				GREY SAND (104R 7/1)		
Remarks: <u>PENETRATION TIME 6 MIN</u>					8.0'	(SP)
Support Vessel <u>G.W. PIERCE</u>		10				
Positioning System <u>TRISPONDER</u>						
Positioning Remarks:						
Weather <u>CLEAR</u>		15				
Wind Dir: <u>NW</u>				GREY SAND (104R 5/1)	16.0'	(SP)
Est. Speed <u>15-20 K</u>				W/ SCATTERED CORAL & SHELL		← COARSE SAND
Waves Dir: <u>NW</u>						
Height <u>1-3'</u>						
Current Dir: _____						
Est. Speed: _____						
Analysis By: <u>FK</u>		20		SILT LAYER CORAL FRAGS.	19.0'	(SP)
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.	10	10	10
SAMPLE DEPTH (FT)	2.0	8.0	16.0

U.S.C.S. DESCRIPTION	SP	SP	SP
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DRY SAMPLE WT (GRAMS)	205.14	182.61	226.82
SAMPLE WT AFTER WASH	202.35	178.41	224.64

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	GRAMS	% RET.	% PASS		GRAMS	% RET.	% PASS		GRAMS	% RET.	% PASS
5	-2.00	4	1.51	0.74	99.26	'	0.00	0.00	100.00	'	0.20	0.09	99.91
						'				'			
7	-1.50	2.8	1.99	0.97	99.03	'	0.51	0.28	99.72	'	0.69	0.30	99.70
						'				'			
10	-1.00	2	2.40	1.17	98.83	'	0.63	0.34	99.66	'	1.45	0.64	99.36
						'				'			
14	-0.50	1.4	3.01	1.47	98.53	'	0.70	0.38	99.62	'	2.37	1.04	98.96
						'				'			
18	0.00	1	3.70	1.80	98.20	'	1.00	0.55	99.45	'	3.51	1.55	98.45
						'				'			
25	0.50	0.71	4.50	2.19	97.81	'	1.26	0.69	99.31	'	4.62	2.04	97.96
						'				'			
35	1.00	0.5	5.77	2.81	97.19	'	2.50	1.37	98.63	'	7.12	3.14	96.86
						'				'			
45	1.50	0.355	9.21	4.49	95.51	'	4.75	2.60	97.40	'	12.26	5.41	94.59
						'				'			
60	2.00	0.25	26.10	12.72	87.28	'	15.85	8.68	91.32	'	31.71	13.98	86.02
						'				'			
80	2.50	0.18	98.72	48.12	51.88	'	109.80	60.13	39.87	'	144.42	63.67	36.33
						'				'			
120	3.00	0.125	175.78	85.69	14.31	'	167.89	91.94	8.06	'	203.19	89.58	10.42
						'				'			
170	3.50	0.09	200.25	97.62	2.38	'	176.00	96.38	3.62	'	222.80	98.23	1.77
						'				'			
200	3.75	0.075	201.19	98.07	1.93	'	177.79	97.36	2.64	'	223.69	98.62	1.38
						'				'			
230	4.00	0.063	201.42	98.19	1.81	'	178.09	97.52	2.48	'	223.89	98.71	1.29
						'				'			
PAN			201.55	98.25		'	178.11	97.54		'	223.92	98.72	

SIEVE LOSS	0.80	0.30	0.72
WEIGHTED AVE(mm)	0.206	0.178	0.198
SILT-CLAY %	1.54	2.48	1.06

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.	10	11	11
SAMPLE DEPTH (FT)	19.0	3.0	9.0

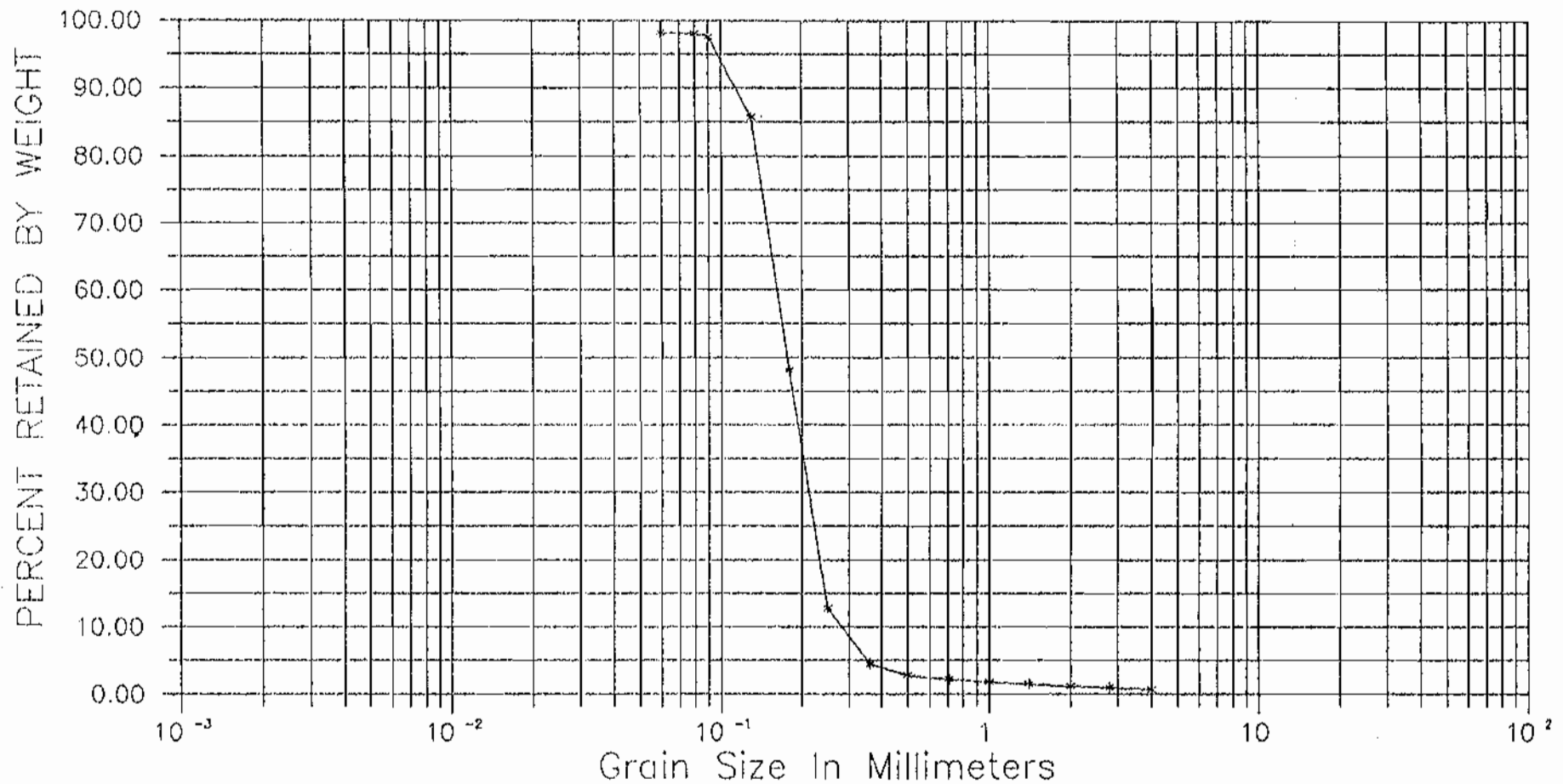
U.S.C.S. DESCRIPTION	SP	SP	SP
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DRY SAMPLE WT (GRAMS)	235.12	263.25	210.10
SAMPLE WT AFTER WASH	231.56	259.35	205.48

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	GRAMS	% RET.	% PASS		GRAMS	% RET.	% PASS		GRAMS	% RET.	% PASS	
5	-2.00	4	0.50	0.21	99.79	'	0.09	0.03	99.97	'	0.00	0.00	100.00	'
7	-1.50	2.8	0.98	0.42	99.58	'	0.50	0.19	99.81	'	0.02	0.01	99.99	'
10	-1.00	2	1.72	0.73	99.27	'	1.15	0.44	99.56	'	0.08	0.04	99.96	'
14	-0.50	1.4	2.19	0.93	99.07	'	1.77	0.67	99.33	'	0.17	0.08	99.92	'
18	0.00	1	3.21	1.37	98.63	'	2.62	1.00	99.00	'	0.26	0.12	99.88	'
25	0.50	0.71	4.26	1.81	98.19	'	3.67	1.39	98.61	'	0.37	0.18	99.82	'
35	1.00	0.5	6.89	2.93	97.07	'	5.82	2.21	97.79	'	0.80	0.38	99.62	'
45	1.50	0.355	18.07	7.69	92.31	'	14.92	5.67	94.33	'	2.19	1.04	98.96	'
60	2.00	0.25	52.03	22.13	77.87	'	57.77	21.94	78.06	'	7.15	3.40	96.60	'
80	2.50	0.18	144.89	61.62	38.38	'	191.29	72.66	27.34	'	93.89	44.69	55.31	'
120	3.00	0.125	204.51	86.98	13.02	'	241.60	91.78	8.22	'	168.26	80.09	19.91	'
170	3.50	0.09	230.52	98.04	1.96	'	258.62	98.24	1.76	'	203.56	96.89	3.11	'
200	3.75	0.075	231.08	98.28	1.72	'	259.26	98.48	1.52	'	204.92	97.53	2.47	'
230	4.00	0.063	231.31	98.38	1.62	'	259.29	98.50	1.50	'	205.10	97.62	2.38	'
PAN			231.38	98.41		'	259.32	98.51		'	205.36	97.74		'

SIEVE LOSS	0.18	0.03	0.12
WEIGHTED AVE(mm)	0.207	0.202	0.151
SILT-CLAY %	1.64	1.50	2.41

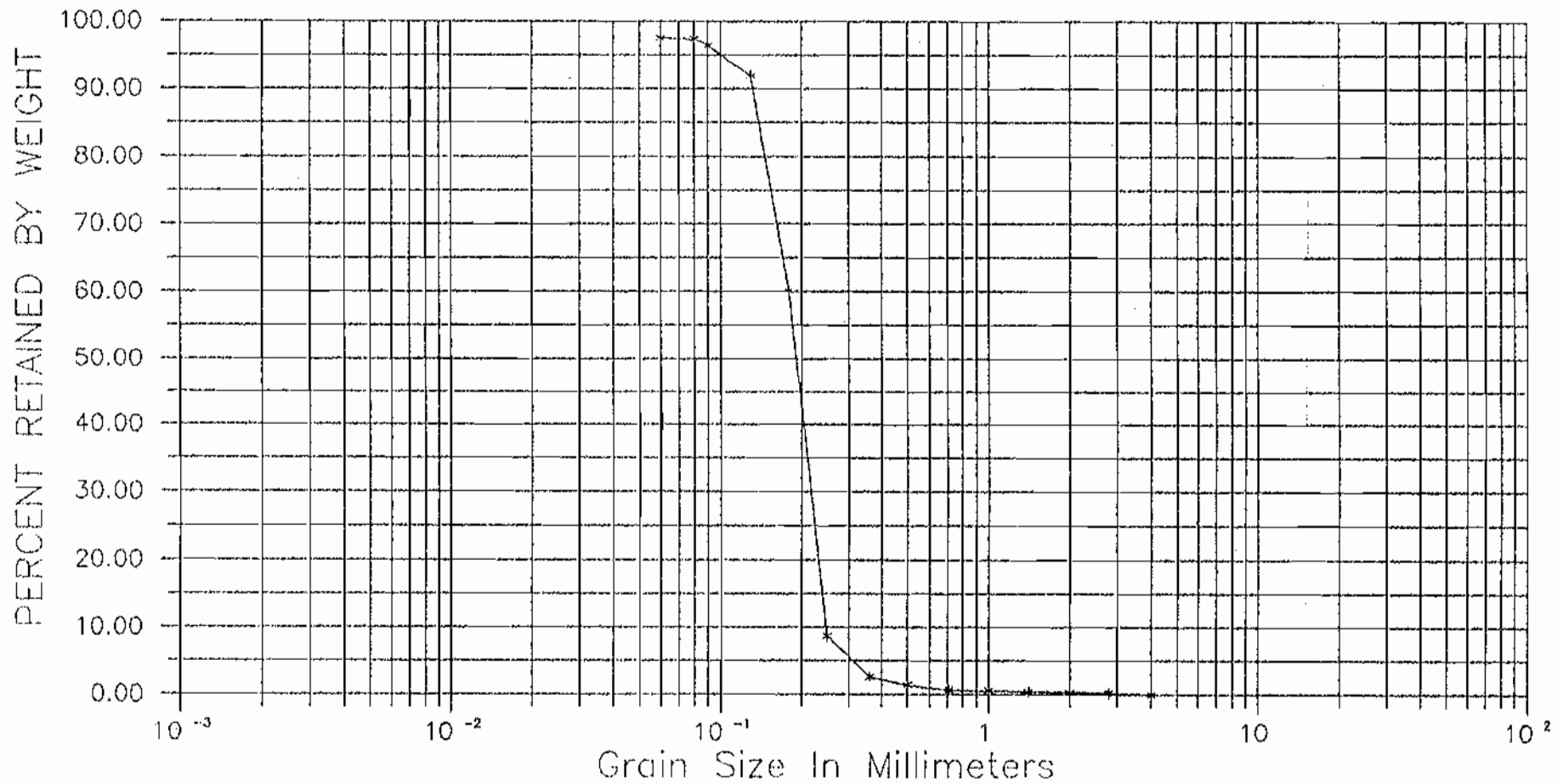
MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.	CLASSIFICATION		
10	MEAN	MEDIAN	SORTING
2'	0.19mm	0.18mm	1.2
	0.18mm	0.18mm	.41
	GREY POORLY GRADED SAND - (SP)		

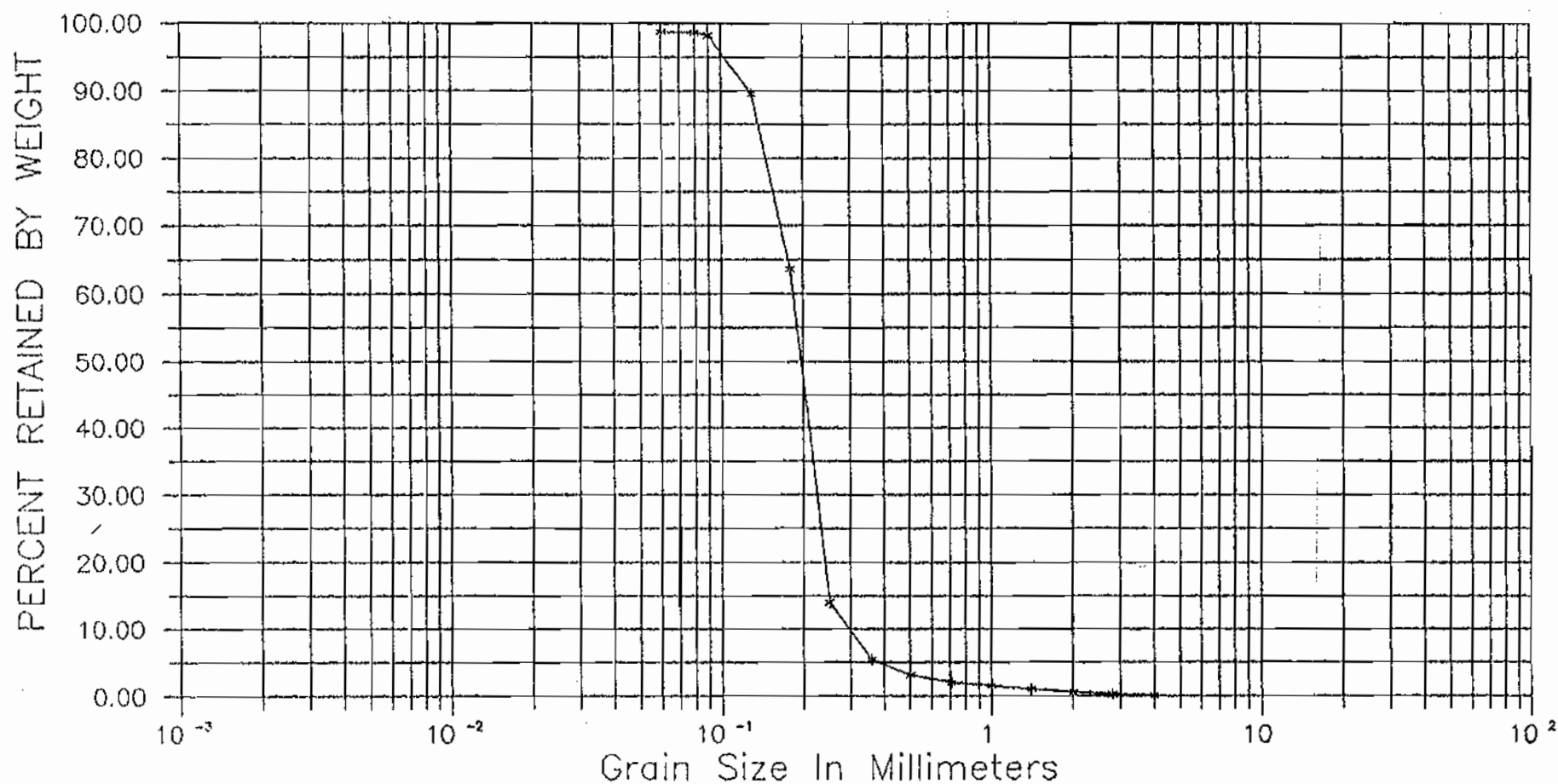
MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.	CLASSIFICATION		
10	MEAN	MEDIAN	SORTING
B'	.19mm	.19mm	.33
	.18mm	.19mm	.33
	GREY POORLY GRADED SAND - (SP)		

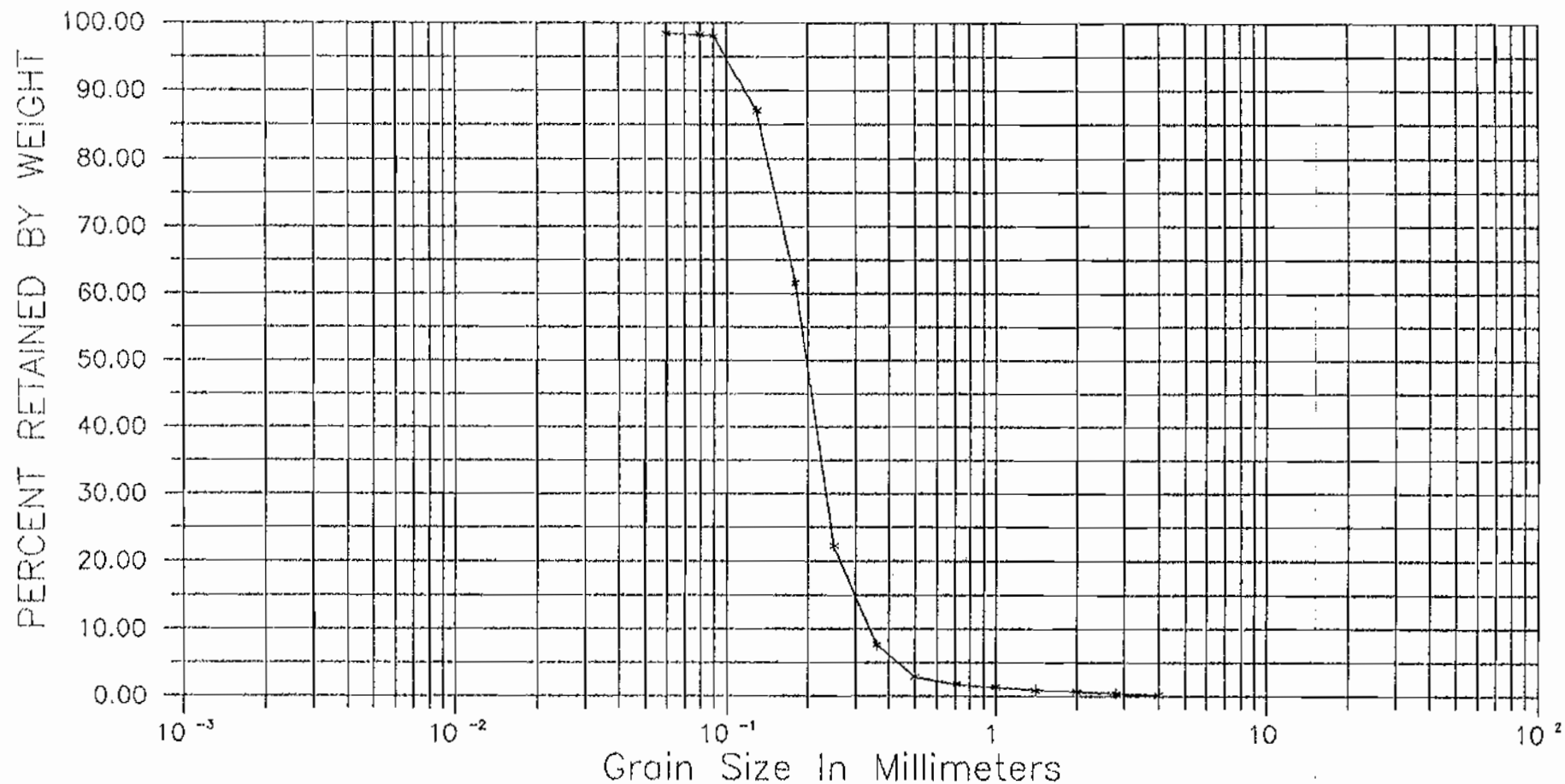
MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.	CLASSIFICATION		
10	MEAN	MEDIAN	SORTING
16'	.19mm	.20mm	.42
	.19mm	.20mm	.36
	GREY POORLY GRADED SAND & SHELL FRAGMENTS-(SP)		

MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.	CLASSIFICATION		
	MEAN	MEDIAN	SORTING
10			
19'	20mm	20mm	53
	.19mm	.20mm	.55
	GREY POORLY GRADED SAND - (SP)		