

VIBRACORE LOG

Project: <u>TOWN OF PALM BEACH</u>		Core No: <u>14A</u>	
Coordinates:		Date: <u>12-17-87</u>	Water Depth <u>35'</u> NGVD
N = <u>867968.2</u>		Start Time <u>1046</u>	Driller <u>M. L. CLARKE</u>
E = <u>818074.4</u>		End Time <u>1055</u>	Client Rep. <u>JEFF ANDREWS</u>
			<u>KIM BEACHLER</u>

	Elev.	Depth	Legend	Description	Samp. No.	Remarks
Core Diam. <u>3.0"</u>		0		GREY SAND		
Length of Barrel <u>20'</u>				(104R 6/1)		
Penetration Depth <u>20'</u>				W/ SCATTERED		
Length Recovered <u>18.0'</u>				SHELL & CORAL		
Length Retained <u>18.0'</u>					3.0'	(SP)
Remarks:						
<u>PENETRATION TIME 9 MIN</u>						
Support Vessel <u>G.W. PIERCE</u>		5		3" CORAL		
Positioning System <u>TRISPOUNDER</u>					8.0'	(SP)
Positioning Remarks:						
Weather <u>CLEAR</u>		10				
Wind Dir: <u>NW</u>					13.0'	(SP)
Est. Speed <u>15-20K</u>						
Waves Dir: <u>NW</u>						
Height <u>3-5</u>						
Current Dir: <u>N/A</u>		15		2" CORAL		
Est. Speed: _____					17.0'	(SP)
Analysis By: <u>FK</u>						
Date: <u>12-21-87</u>						
Analysis Method:						
<u>VISUAL LOG</u>		20				
<u>MECHANICAL SIEVE</u>						

VIBRACORE LOG

Project: <u>TOWN OF PALM BEACH</u>		Core No: <u>14B</u>	
Coordinates:	Date: <u>12-17-87</u>	Water Depth <u>35'</u> NGVD	
N = <u>867970.4</u>	Start Time <u>1141</u>	Driller <u>M.L. CLARKE</u> <u>JEFF ANDREWS</u>	
E = <u>818091.0</u>	End Time <u>1155</u>	Client Rep. <u>KIM BEACHLER</u>	

	Elev.	Depth	Legend	Description	Samp. No.	Remarks
Core Diam. <u>3.0"</u>		0		GREY SAND (10 YR 7/1)		
Length of Barrel <u>20'</u>				W/ SCATTERED SHELL & CORAL	2.0'	(SP)
Penetration Depth <u>20'</u>				SHELL LAYER		
Length Recovered <u>19'0"</u>						
Length Retained <u>19'5"</u>						
Remarks: <u>PENETRATION TIME 14 MIN</u>						
Support Vessel <u>G.W. PIERCE</u>		5				
Positioning System <u>TRISPONDER</u>						
Positioning Remarks:					8.0'	(SP)
Weather <u>CLEAR</u>		10		3" CORAL		
Wind Dir: <u>NW</u>						
Est. Speed <u>15-20 K</u>						
Waves Dir: <u>NW</u>						
Height <u>3-5'</u>						
Current Dir: <u>N/A</u>						
Est. Speed:						
		15		GREY SAND (10 YR 5/1) W/ SCATTERED SHELL & CORAL	14.0'	(SP-SM) COARSER SAND
				BROWN SAND (10 YR 7/3)		
				GREY SAND, W/ SCATTERED CORAL FRAGS	18.0'	(SP)
Analysis By: <u>EK</u>		20				
Date: <u>12-21-87</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.	13	14 ^b	14 ^b											
SAMPLE DEPTH (FT)	18.0	2.0	8.0											
U.S.C.S.	SP	SP	SP											
DESCRIPTION														
DRY SAMPLE WT (GRAMS)	186.42	148.66	184.21											
SAMPLE WT AFTER WASH	179.02	146.55	181.12											
SIEVE SIZE	PHI 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	1.16	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	'	0.89	0.60	99.40	'	1.21	0.66	99.34	'
18	0.00	1	11.28	6.05	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	'	16.55	11.13	88.87	'	37.03	20.10	79.90	'
60	2.00	0.25	41.62	22.33	77.67	'	75.65	50.89	49.11	'	59.56	32.33	67.67	'
80	2.50	0.18	106.24	56.99	43.01	'	122.01	82.07	17.93	'	119.19	64.70	35.30	'
120	3.00	0.125	156.62	84.01	15.99	'	145.50	97.87	2.13	'	156.17	84.78	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	'	146.19	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	95.88		'	146.29	98.41		'	180.53	98.00		'
SIEVE LOSS	0.28						0.26				0.59			
WEIGHTED AVE(mm)	0.294						0.193				0.229			
SILT-CLAY %	4.45						1.49				1.92			

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

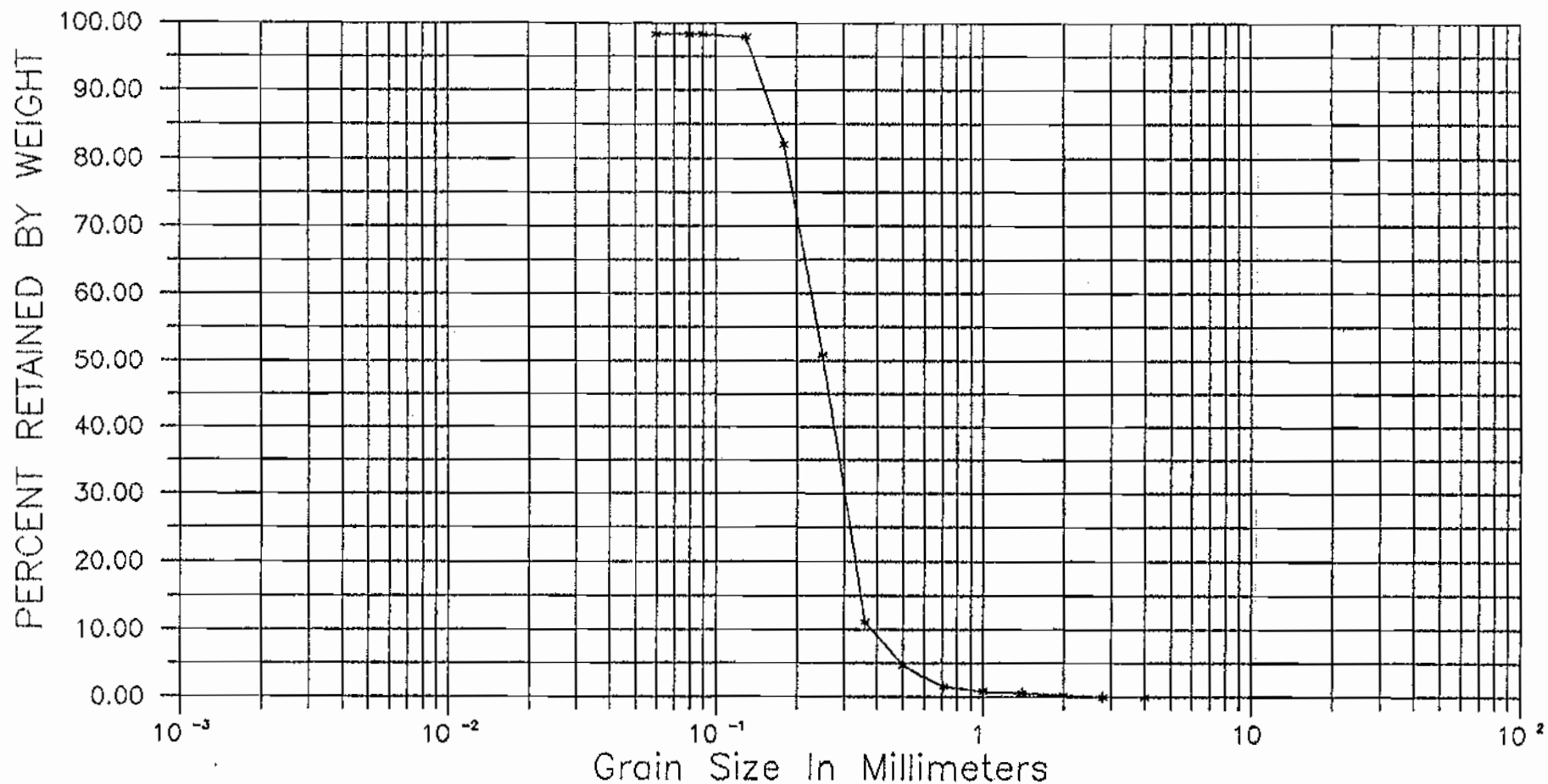
U.S.C.S. DESCRIPTION	SP-SM	SP	SP
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DRY SAMPLE WT (GRAMS)	220.59	192.36	163.23
SAMPLE WT AFTER WASH	205.59	189.35	160.25

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

MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

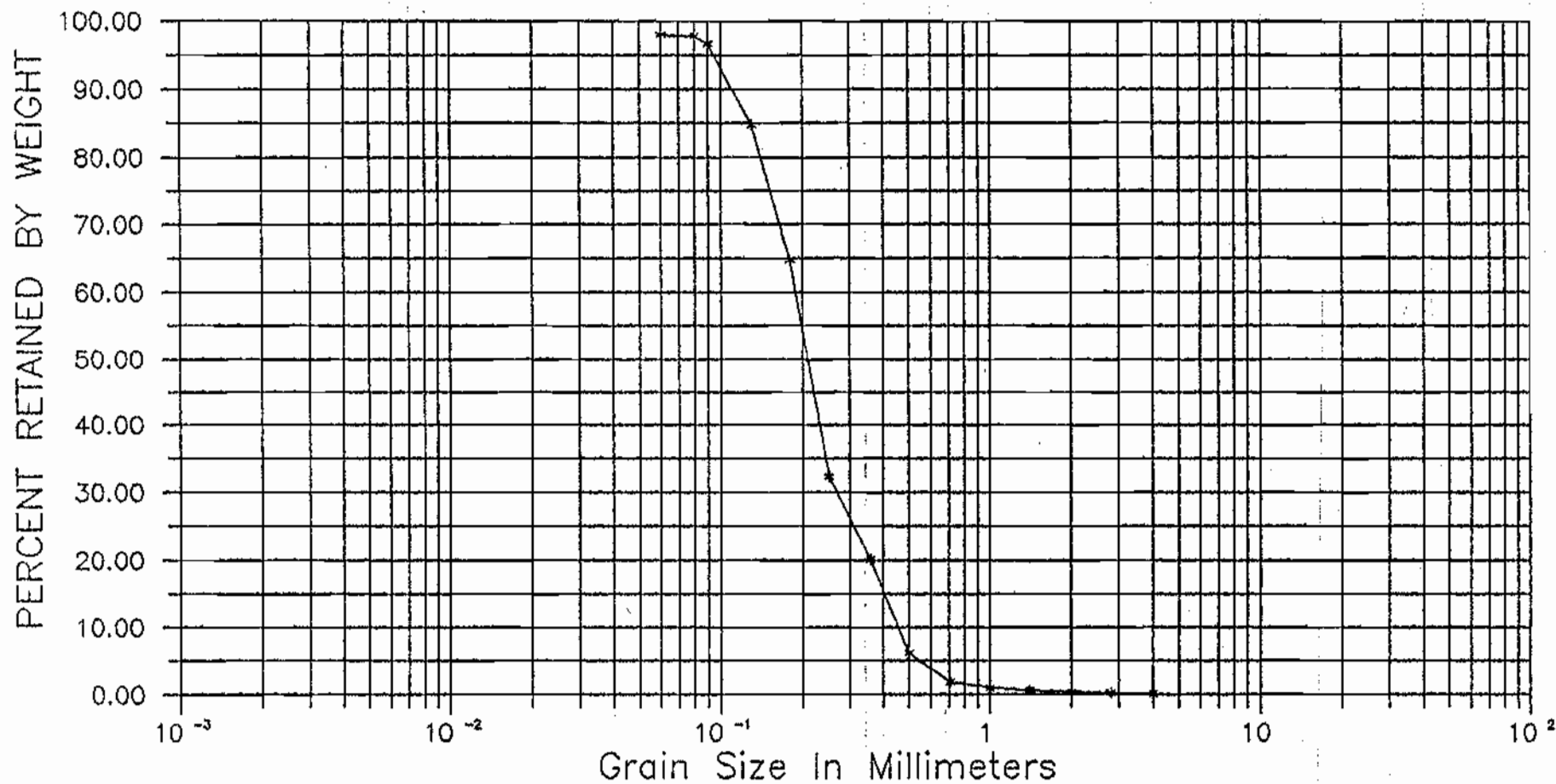
SAMPLE NO.

CLASSIFICATION

14	MEAN	MEDIAN	SORTING
27	.25mm	.25mm	.118
	.24mm	.22mm	.46
GREY POORLY GRADED SAND WITH SCATTERED SHELL & CORAL-(SP)			

(59)

MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

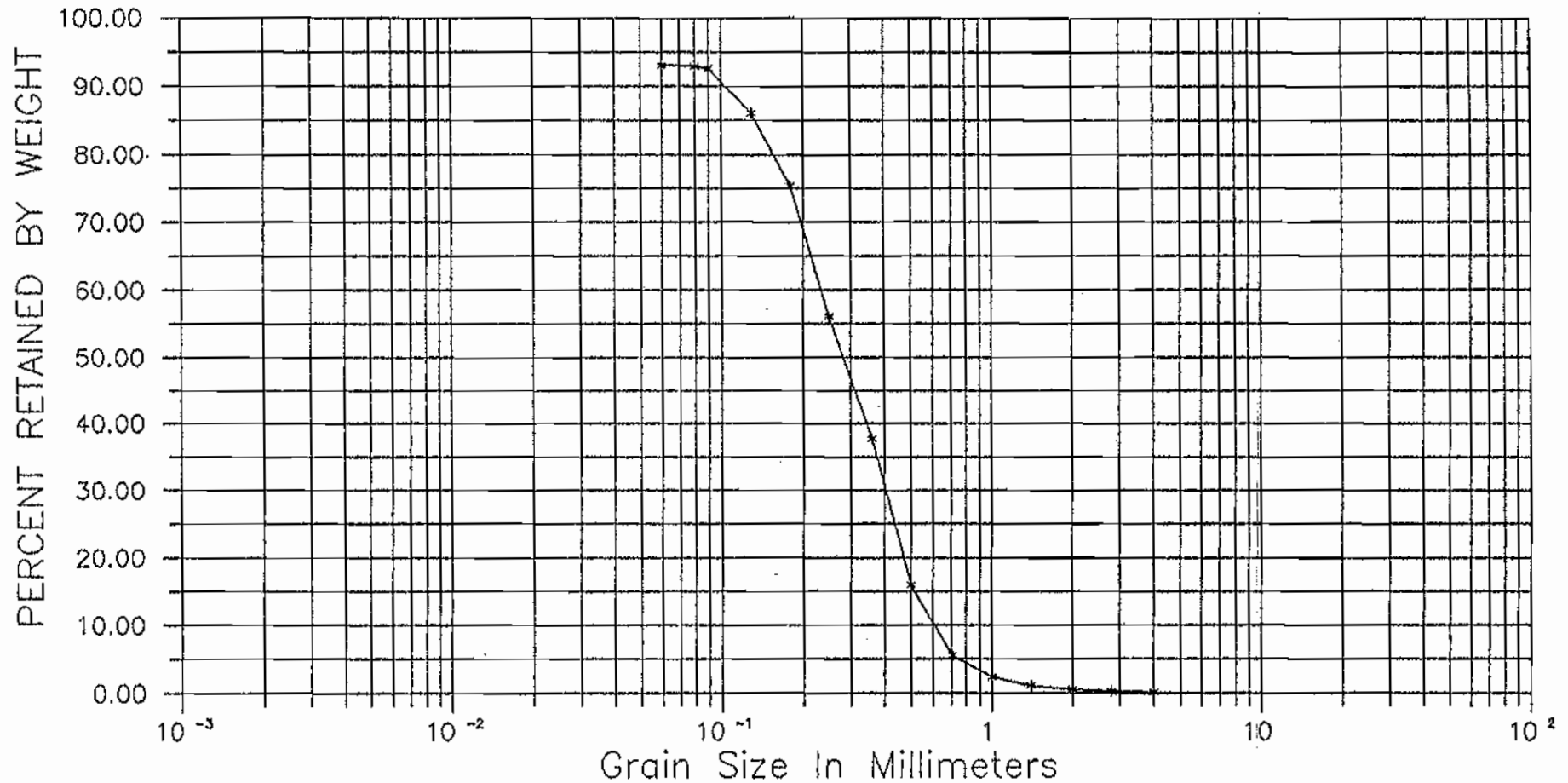
SAMPLE NO.

CLASSIFICATION

	MEAN	MEDIAN	SORTING
14			
8'	.23 mm	.21 mm	.76
	.22 mm	.20 mm	.81
GREY POORLY GRADED SAND - (SP)			

(54)

MECHANICAL ANALYSIS CHART



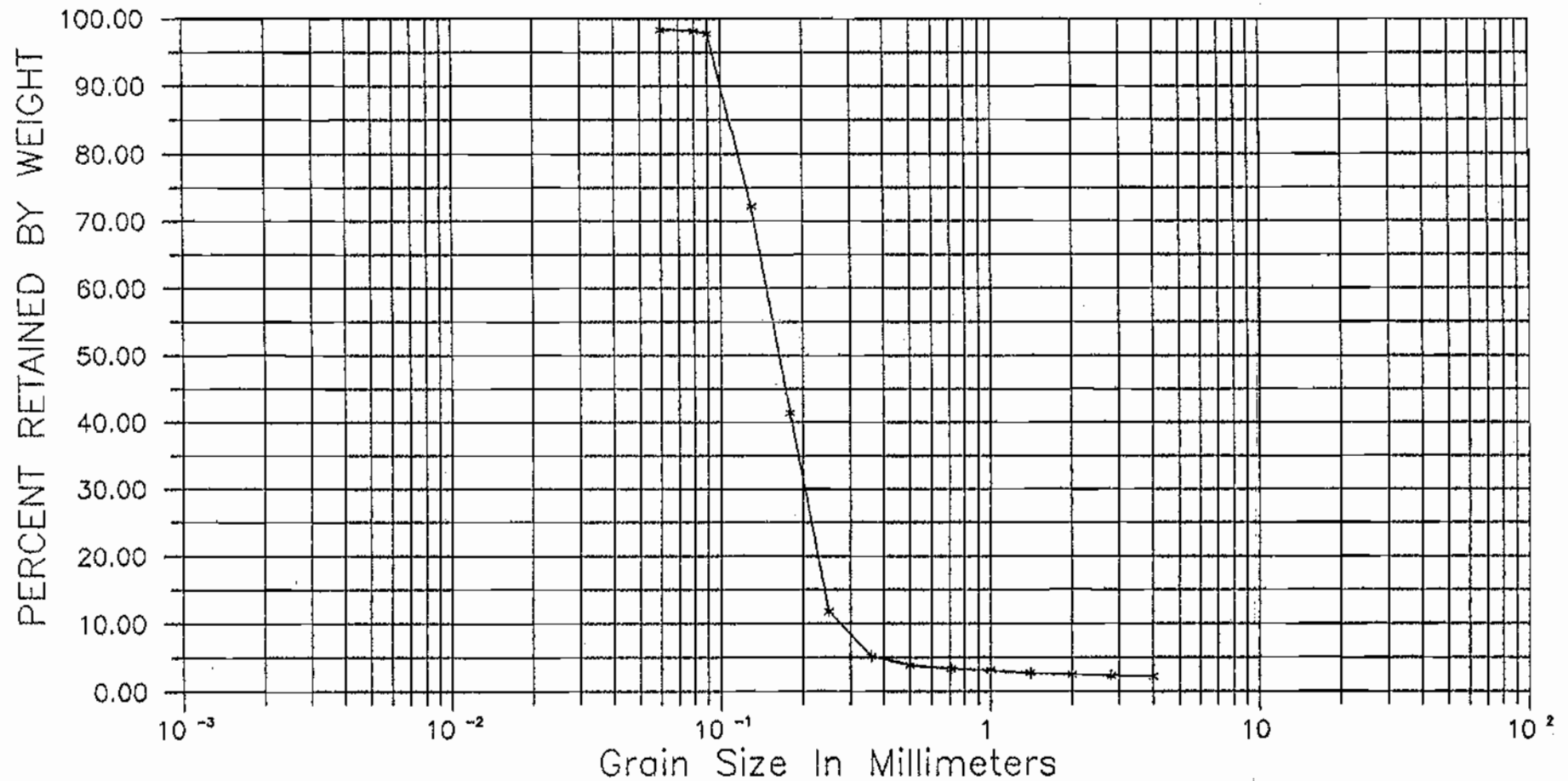
SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.

CLASSIFICATION

	MEAN	MEDIAN	SORTING
14			
13'	27mm	2.0mm	97
	26mm	2.0mm	98
GREY POORLY GRADED SAND WITH SCATTERED SHELL & CORAL - (SP-SM)			

MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.

CLASSIFICATION

17	MEAN	MEDIAN	SORTING
18'	.16mm	.17mm	56
	.16mm	.16mm	50
	GREY POORLY GRADED SAND & SCATTERED SHELL - (SP)		

(56)