

VIBRACORE LOG

Project: BIG SARASOTA PASS Core No: BSP - 1

Coordinates:

N = 1073736E = 314829Date: 10-23-91Start Time 1433End Time 1445Water Depth 5.4 NGVDDriller MIKE CLARKE - EXMARClient Rep. JEFF ANDREWS - CPE

		Elev.	Depth	Legend	Description	Samp. No.	Remarks
Core Diam. <u>3"</u>		-5.4	0				
Length of Barrel <u>20'</u>							
Penetration Depth							
Length Recovered <u>11.1'</u>							
Length Retained <u>11.1'</u>							
Remarks:							
Support Vessel <u>MARINER MARINE</u>		-8.3	2.9		FINE WHITE QUARTZ SAND	-2.2	MEAN - 0.21 mm SILT - 2.1%
Positioning System <u>TRISPOUNDER</u>		-8.7	3.3		FINE WHITE QUARTZ SAND W/ SHELL HASH	L 0.25"	
Positioning Remarks: <u>HYPACT</u>			5		1.5" SHELL FINE WHITE QUARTZ SAND W/ 5% SHELL HASH L 0.125	-5.4	MEAN - 0.20 mm SILT - 2.1%
		-14.4	9.0			-8.0	MEAN - 0.23 mm SILT - 2.5%
Weather <u>CLEAR</u>		-14.9	9.5		SHELL HASH L 0.125		
Wind			10				
Dir: <u>SE</u>		-16.0	10.6		FINE WHITE QUARTZ SAND W/ 5% SHELL HASH L 0.125		
Est. Speed <u>5-10 KNTS.</u>		-16.5	11.1		SHELL HASH L 0.125		
Waves					1.5' CONCH SHELL		
Dir:							
Height <u>CALM</u>							
Current							
Dir: <u>NA</u>			-15				
Est. Speed:							
Analysis By: <u>FK</u>							
Date:							
Analysis Method: <u>SIEVE</u>							
CORE LOGGED BY <u>PH</u>			-20				

GRADATION ANALYSIS REPORT
BIG SARASOTA PASS, SAND SAMPLES 22 OCT 1991

TESTED BY: ON: 11-20-91

SAMPLE NO.: BSP1-2
SAMPLE ELEV. (FT. NGVD): -5.4
SAMPLE DEPTH (FT.): -2.2
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 234.41
SAMPLE WEIGHT AFTER WASH (GRAMS): 229.67

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.0	16.000	.00	.00	100.00
5/16	-3.0	8.000	.00	.00	100.00
5	-2.0	4.000	.83	.35	99.65
7	-1.5	2.800	1.47	.63	99.37
10	-1.0	2.000	2.27	.97	99.03
14	-0.5	1.400	3.19	1.36	98.64
18	0.0	1.000	4.37	1.86	98.14
25	0.5	.710	5.59	2.38	97.62
35	1.0	.500	8.81	3.76	96.24
45	1.5	.355	14.30	6.10	93.90
60	2.0	.250	34.88	14.88	85.12
80	2.5	.180	162.12	69.16	30.84
120	3.0	.125	223.97	95.55	4.45
170	3.5	.090	229.43	97.88	2.12
200	3.75	.075	229.61	97.95	2.05
230	4.0	.063	231.98	98.96	1.04
PAN			234.39	99.99	.01

SIEVE LOSS(g):	.02		
MEDIAN (mm):	.200	MEAN (mm):	.207
SILT/CLAY:	2.05%	SORTING:	.385
SKEWNESS:	-.392	KURTOSIS:	1.366

PHI(5):	1.27	PHI(16):	2.01	PHI(25):	2.09
PHI(50):	2.32	PHI(75):	2.61	PHI(84):	2.78
PHI(95):	2.99				

COEFFICIENT OF CURVATURE : 1.068
COEFFICIENT OF UNIFORMITY: 1.584

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: BSP1-02.TAB

GRADATION ANALYSIS REPORT
BIG SARASOTA PASS, SAND SAMPLES 22 OCT 1991

TESTED BY: ON: 11-20-91

SAMPLE NO.: BSP1-5
SAMPLE ELEV. (FT. NGVD): -5.4
SAMPLE DEPTH (FT.): -5.4
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 279.91
SAMPLE WEIGHT AFTER WASH (GRAMS): 276.49

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.0	16.000	.00	.00	100.00
5/16	-3.0	8.000	.00	.00	100.00
5	-2.0	4.000	.68	.24	99.76
7	-1.5	2.800	1.59	.57	99.43
10	-1.0	2.000	3.11	1.11	98.89
14	-0.5	1.400	4.55	1.63	98.37
18	0.0	1.000	6.30	2.25	97.75
25	0.5	.710	7.89	2.82	97.18
35	1.0	.500	12.72	4.54	95.46
45	1.5	.355	19.43	6.94	93.06
60	2.0	.250	40.43	14.44	85.56
80	2.5	.180	167.17	59.72	40.28
120	3.0	.125	262.96	93.94	6.06
170	3.5	.090	273.02	97.54	2.46
200	3.75	.075	274.14	97.94	2.06
230	4.0	.063	276.28	98.70	1.30
PAN			279.89	99.99	.01

SIEVE LOSS(g): .02
MEDIAN (mm): .190
SILT/CLAY: 2.06%
SKEWNESS: -.543
MEAN (mm): .203
SORTING: .419
KURTOSIS: 1.386

PHI(5): 1.10 PHI(16): 2.02 PHI(25): 2.12
PHI(50): 2.39 PHI(75): 2.72 PHI(84): 2.85
PHI(95): 3.15
COEFFICIENT OF CURVATURE : .949
COEFFICIENT OF UNIFORMITY: 1.580

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: BSP1-05.TAB

GRADATION ANALYSIS REPORT
BIG SARASOTA PASS, SAND SAMPLES 22 OCT 1991

TESTED BY: ON: 11-20-91

SAMPLE NO.: BSP1-8
SAMPLE ELEV. (FT. NGVD): -5.4
SAMPLE DEPTH (FT.): -8.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 196.07
SAMPLE WEIGHT AFTER WASH (GRAMS): 192.10

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.0	16.000	.00	.00	100.00
5/16	-3.0	8.000	.00	.00	100.00
5	-2.0	4.000	1.09	.56	99.44
7	-1.5	2.800	1.83	.93	99.07
10	-1.0	2.000	2.50	1.28	98.72
14	-0.5	1.400	3.37	1.72	98.28
18	0.0	1.000	4.57	2.33	97.67
25	0.5	.710	5.88	3.00	97.00
35	1.0	.500	10.31	5.26	94.74
45	1.5	.355	17.11	8.73	91.27
60	2.0	.250	38.42	19.60	80.40
80	2.5	.180	152.56	77.81	22.19
120	3.0	.125	187.04	95.39	4.61
170	3.5	.090	190.90	97.36	2.64
200	3.75	.075	191.25	97.54	2.46
230	4.0	.063	193.40	98.64	1.36
PAN			196.05	99.99	.01

SIEVE LOSS(g):	.02		
MEDIAN (mm):	.209	MEAN (mm):	.227
SILT/CLAY:	2.46%	SORTING:	.421
SKEWNESS:	-.591	KURTOSIS:	1.953

PHI(5):	.94	PHI(16):	1.83	PHI(25):	2.05
PHI(50):	2.26	PHI(75):	2.48	PHI(84):	2.68
PHI(95):	2.99				
COEFFICIENT OF CURVATURE :	1.114				
COEFFICIENT OF UNIFORMITY:	1.593				

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: BSP1-08.TAB

GRAIN SIZE IN PHI UNITS

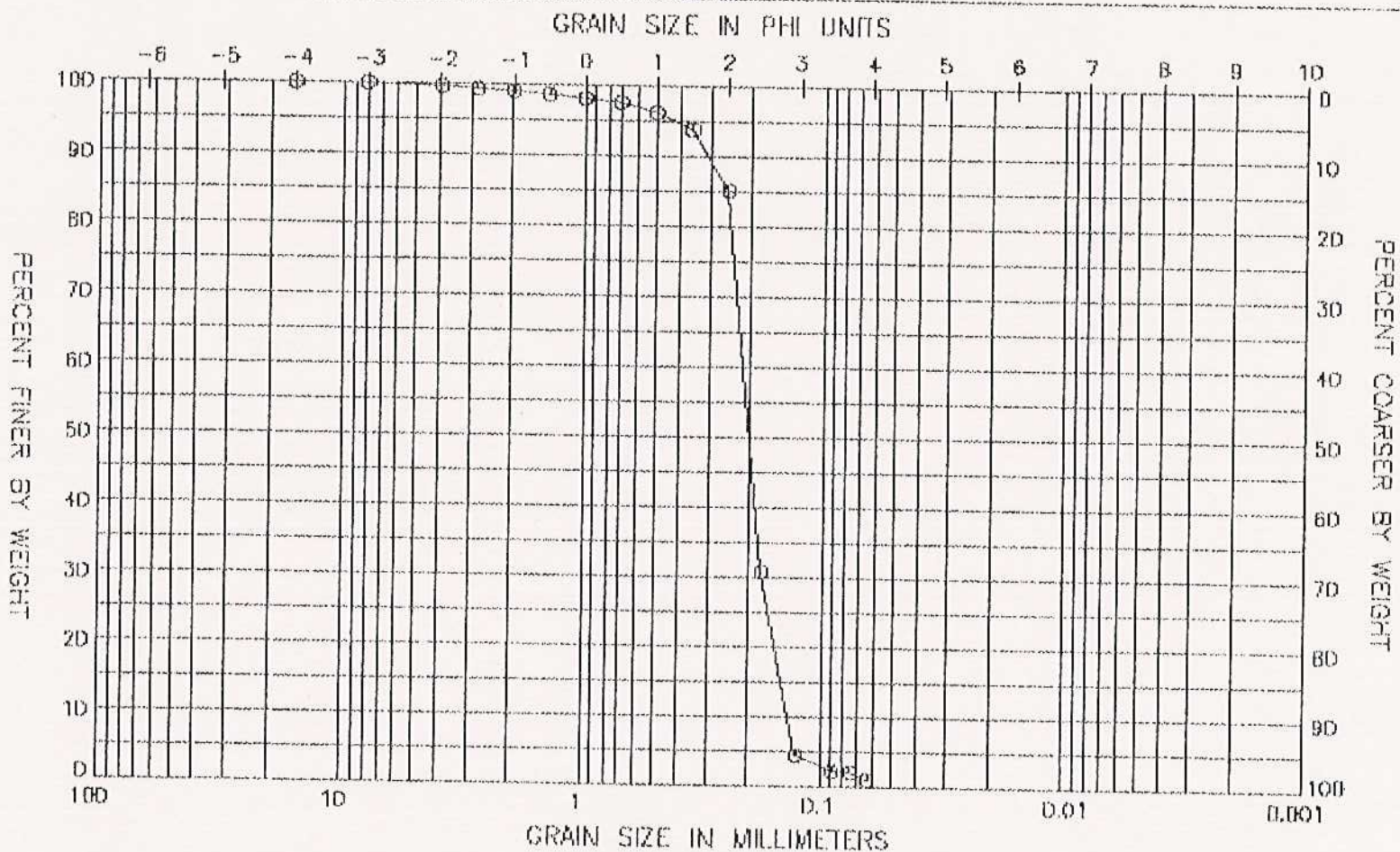
PERCENT FINER BY WEIGHT

PERCENT COARSER BY WEIGHT

GRAIN SIZE IN MILLIMETERS

WENTWORTH CLASSIFICATION

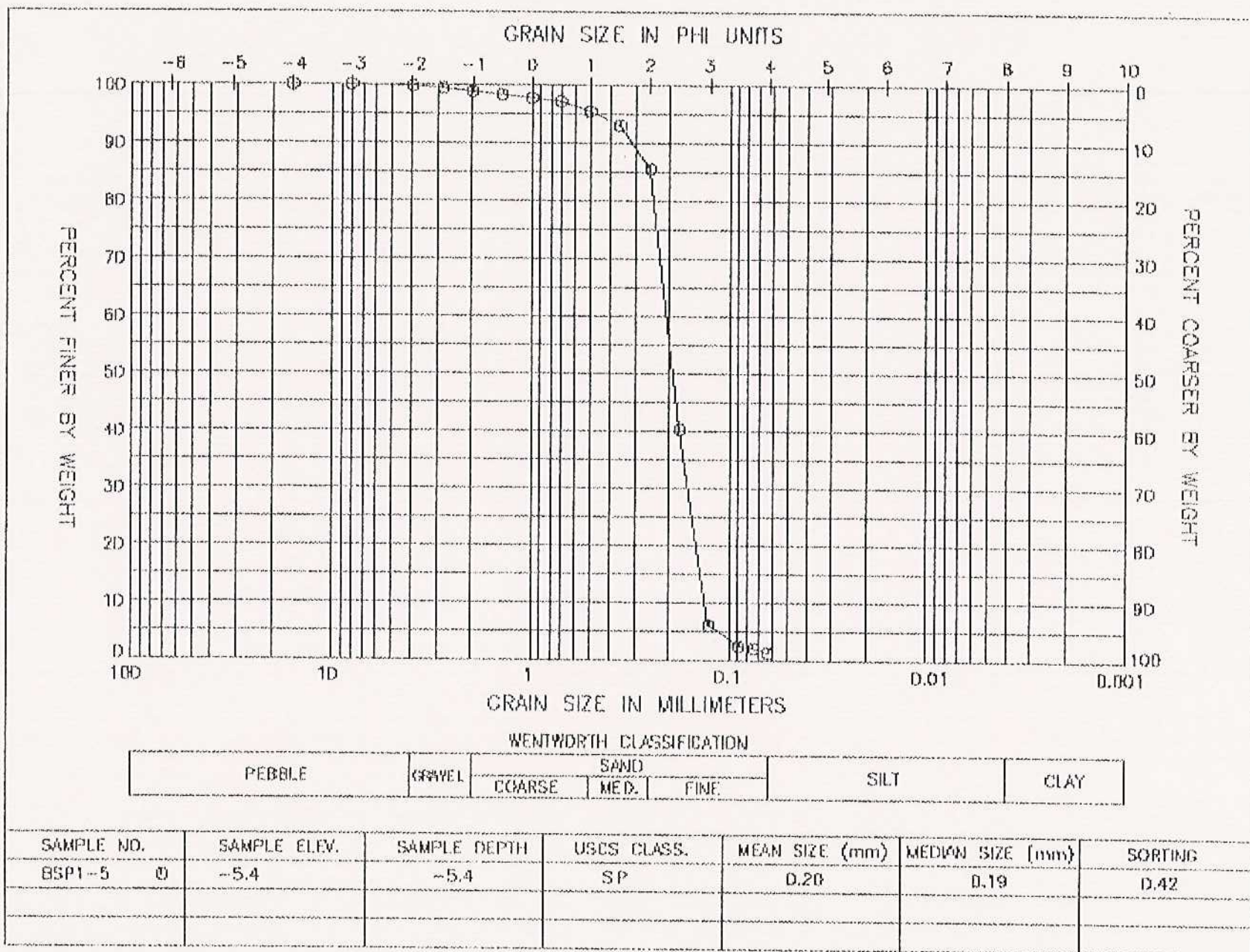
SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.			MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
			COARSE	MED.	FINE			
BSP1-2	0	~5.4	~2.2	SP		0.21	0.20	0.59



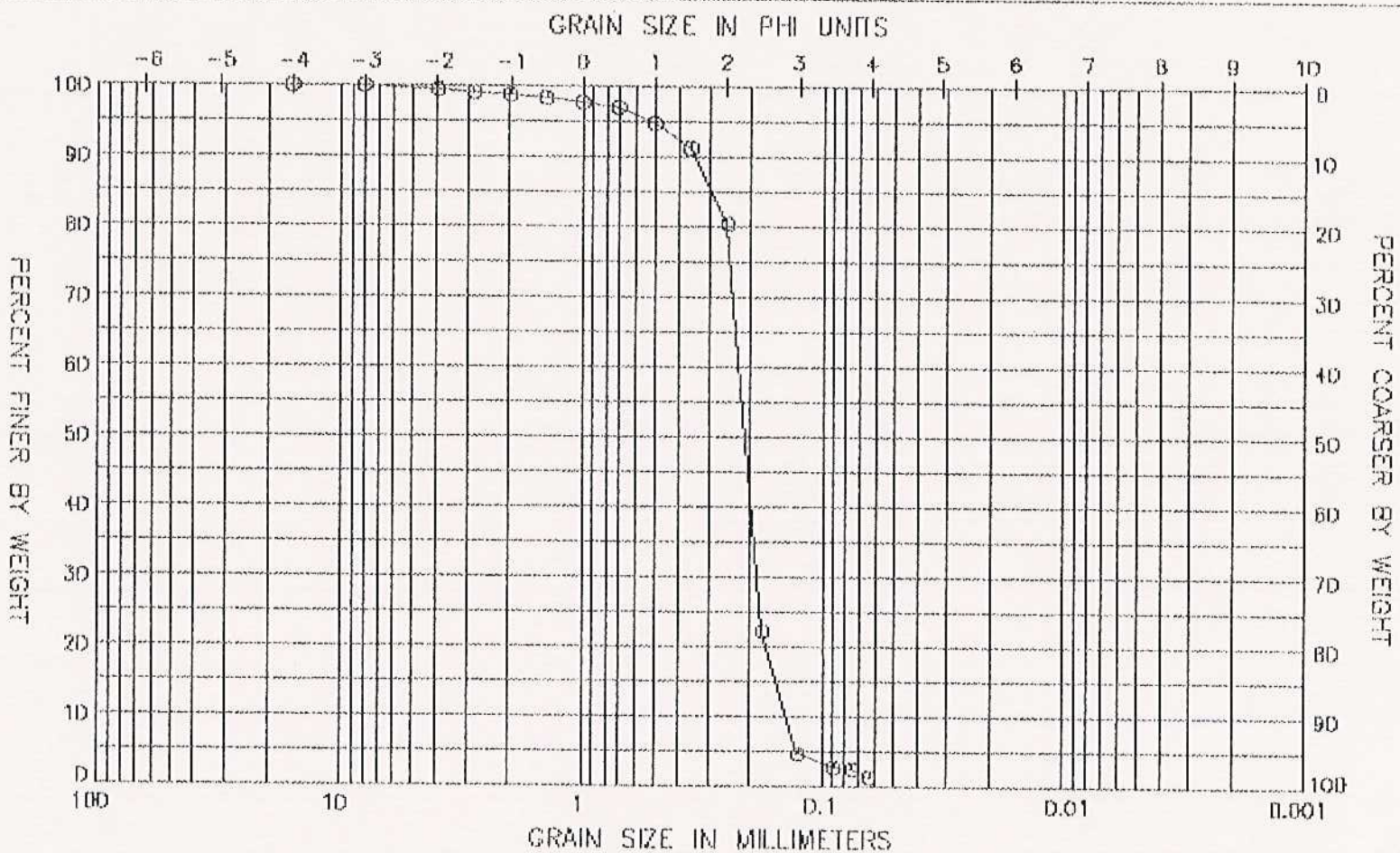
NORTH NORTH CLASSIFICATION						
PEBBLE	GRAVEL	SAND			SILT	CLAY
		COARSE	MED.	FINE		

SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
BSP1-2 0	~5.4	~2.2	SP	0.21	0.20	D.59

GRAIN SIZE DISTRIBUTION CURVE
BIG SARASOTA PASS, SAND SAMPLES 22 0



GRAIN SIZE DISTRIBUTION CURVE
BIG SARASOTA PASS, SAND SAMPLES 22 0



WENTWORTH CLASSIFICATION

PEBBLE	GRAVEL	SAND			SILT	CLAY
		COARSE	MED.	FINE		

SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
BSP1-B 0	-5.4	-8.0	SP	0.23	0.21	0.42