

VIBRACORE LOG

Project: BIG SARASOTA PASS		Core No: BSP - 6	
Coordinates:		Date: 10-23-91	Water Depth 4.5 NGVD
N = 1,071,476		Start Time 1139	Driller MIKE CLARKE - EXMAR
E = 313,078		End Time 1155	Client Rep. JEFF ANDREWS - CPE

	Elev.	Depth	Legend	Description	Samp. No.	Remarks
Core Diam. <u>3"</u>	-4.5	0				
Length of Barrel <u>20"</u>						
Penetration Depth						
Length Recovered <u>12.7</u>						
Length Retained <u>12.7</u>						
Remarks:						
Support Vessel MARINER MARINE		5		FINE WHITE QUARTZ SAND	-1.5	MEAN 0.20mm SILT 2.0 %
Positioning System TRISPONDER						
Positioning Remarks: HYPACT						
	-14.0	9.5				
		10				
Weather <u>CLEAR</u>				FINE WHITE QUARTZ SAND W/ SHELL HASH 20% L. 25"		
Wind						
Dir: <u>SE</u>						
Est. Speed <u>5-10 KNTS.</u>	-17.2	12.7			-12.0	MEAN 0.44 mm SILT 1.4 %
Waves						
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.: BSP6-1
SAMPLE ELEV. (FT. NGVD): -4.5
SAMPLE DEPTH (FT.): -1.5
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 195.41
SAMPLE WEIGHT AFTER WASH (GRAMS): 191.61

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	.08	.04	99.96
7	-1.5	2.800	.31	.16	99.84
10	-1.0	2.000	.43	.22	99.78
14	-0.5	1.400	.58	.30	99.70
18	0.0	1.000	.79	.40	99.60
25	0.5	.710	1.17	.60	99.40
35	1.0	.500	2.53	1.29	98.71
45	1.5	.355	5.07	2.59	97.41
60	2.0	.250	20.06	10.27	89.73
80	2.5	.180	137.43	70.33	29.67
120	3.0	.125	187.56	95.98	4.02
170	3.5	.090	191.47	97.98	2.02
200	3.75	.075	191.55	98.02	1.98
230	4.0	.063	193.45	99.00	1.00
PAN			195.38	99.98	.02

SIEVE LOSS(g): .03
MEDIAN (mm): .199
SILT/CLAY: 1.98%
SKEWNESS: -.024
MEAN (mm): .195
SORTING: .359
KURTOSIS: 1.159

PHI(5): 1.66 PHI(16): 2.05 PHI(25): 2.12
PHI(50): 2.33 PHI(75): 2.59 PHI(84): 2.77
PHI(95): 2.98
COEFFICIENT OF CURVATURE : 1.099
COEFFICIENT OF UNIFORMITY: 1.554

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: BSP6-01.TAB

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

TESTED BY: ON: 11-20-91

SAMPLE NO.: BSP6-7
SAMPLE ELEV. (FT. NGVD): -4.5
SAMPLE DEPTH (FT.): -7.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 234.41
SAMPLE WEIGHT AFTER WASH (GRAMS): 229.36

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	.00	.00	100.00
7	-1.5	2.800	.15	.06	99.94
10	-1.0	2.000	.24	.10	99.90
14	-0.5	1.400	.46	.20	99.80
18	0.0	1.000	1.27	.54	99.46
25	0.5	.710	2.34	1.00	99.00
35	1.0	.500	4.62	1.97	98.03
45	1.5	.355	7.95	3.39	96.61
60	2.0	.250	23.73	10.12	89.88
80	2.5	.180	142.68	60.87	39.13
120	3.0	.125	219.29	93.55	6.45
170	3.5	.090	227.65	97.12	2.88
200	3.75	.075	228.46	97.46	2.54
230	4.0	.063	231.38	98.71	1.29
PAN			234.37	99.98	.02

SIEVE LOSS(g):	.04		
MEDIAN (mm):	.190	MEAN (mm):	.186
SILT/CLAY:	2.54%	SORTING:	.398
SKEWNESS:	.037	KURTOSIS:	1.140

PHI(5): 1.62	PHI(16): 2.06	PHI(25): 2.15
PHI(50): 2.39	PHI(75): 2.72	PHI(84): 2.85
PHI(95): 3.20		
COEFFICIENT OF CURVATURE : .973		
COEFFICIENT OF UNIFORMITY: 1.571		

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: BSP6-07.TAB

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

TESTED BY: ON: 11-20-91

SAMPLE NO.: BSP6-12
SAMPLE ELEV. (FT. NGVD): -4.5
SAMPLE DEPTH (FT.): -12.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 220.36
SAMPLE WEIGHT AFTER WASH (GRAMS): 218.63

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	13.18	5.98	94.02
7	-1.5	2.800	18.59	8.44	91.56
10	-1.0	2.000	24.15	10.96	89.04
14	-0.5	1.400	28.85	13.09	86.91
18	0.0	1.000	34.81	15.80	84.20
25	0.5	.710	39.43	17.89	82.11
35	1.0	.500	46.62	21.16	78.84
45	1.5	.355	53.38	24.22	75.78
60	2.0	.250	71.17	32.30	67.70
80	2.5	.180	153.23	69.54	30.46
120	3.0	.125	208.64	94.68	5.32
170	3.5	.090	216.47	98.23	1.77
200	3.75	.075	217.21	98.57	1.43
230	4.0	.063	218.36	99.09	.91
PAN			220.30	99.97	.03

SIEVE LOSS(g): .06
MEDIAN (mm): .212
SILT/CLAY: 1.43%
SKEWNESS: -3.595
MEAN (mm): .438
SORTING: 1.370
KURTOSIS: 2.013

PHI(5): -2.16 PHI(16): .05 PHI(25): 1.55
PHI(50): 2.24 PHI(75): 2.61 PHI(84): 2.79
PHI(95): 3.04
COEFFICIENT OF CURVATURE : .994
COEFFICIENT OF UNIFORMITY: 1.745

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: BSP6-12.TAB

GRAIN SIZE IN PHI UNITS

PERCENT FINER BY WEIGHT

PERCENT COARSER BY WEIGHT

GRAIN SIZE IN MILLIMETERS

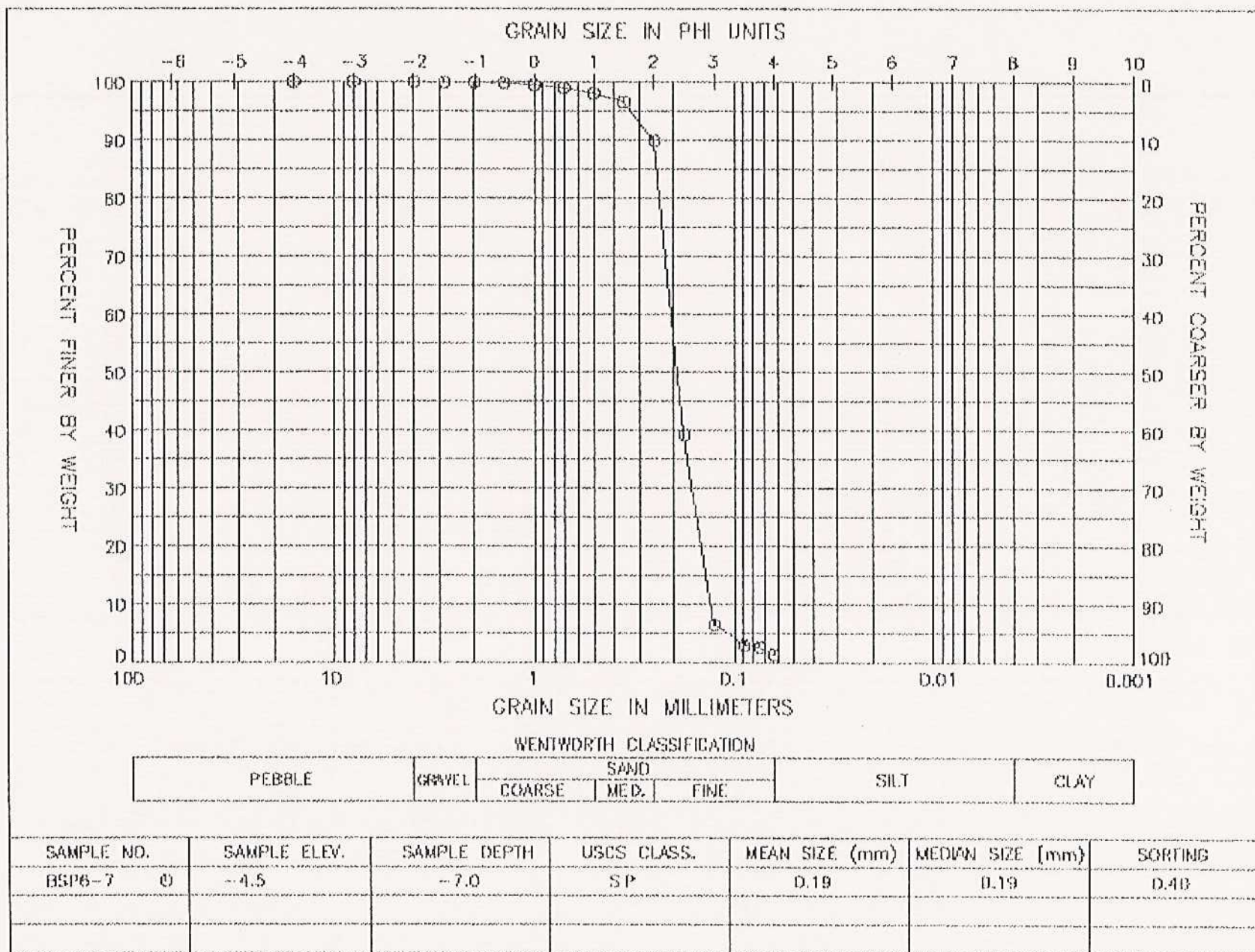
WENTWORTH CLASSIFICATION

PEBBLE		GRAVEL	SAND			SILT		CLAY
			COARSE	MED.	FINE			
SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.			MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
BSP6-1	0	-1.5	SP			0.20	0.20	0.36

PEBBLE	GRAVEL	COARSE	SAND MED.	FINE	SILT	CLAY
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SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
BSP6-1 ①	-4.5	-1.5	SP	0.20	0.20	0.36

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



GRAIN SIZE IN PHI UNITS

PERCENT FINER BY WEIGHT

PERCENT COARSER BY WEIGHT

GRAIN SIZE IN MILLIMETERS

WENTWORTH CLASSIFICATION

PEBBLE		GRAYEL	SAND			SILT	CLAY
			COARSE	MED.	FINE		
SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.		MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
BSP6-12 0	-4.5	-12.0	SP		0.44	0.21	1.37

PEBBLE	GRAVEL	COARSE	SAND MED.	FINE	SILT	CLAY
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SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
BSP6-12 ①	-4.5	-12.0	SP	0.44	0.21	1.37