

VIBRACORE LOG

Project: BIG SARASOTA PASSCore No: BSP - 2

Coordinates:

N = 1073595E = 313579Date: 10-23-91Start Time 1256End Time 1305Water Depth 8.4 NGVDDriller MIKE CLARKE - EXMARClient Rep. JEFF ANDREWS - CPE

Core Diam. 3"
 Length of Barrel 20'
 Penetration Depth _____
 Length Recovered 12.3
 Length Retained 12.3
 Remarks: _____

Support Vessel MARINER MARINE
 Positioning System TRISPOUNDER
 Positioning Remarks: HYPACT

Weather CLEAR
 Wind _____
 Dir: SE
 Est. Speed 5-10 KNTS.
 Waves _____
 Dir: _____
 Height CALM
 Current _____
 Dir: NA
 Est. Speed: _____

Analysis By: FK
 Date: _____
 Analysis Method: SIEVE
 Core Logged by: PH

Elev.	Depth	Legend	Description	Samp. No.	Remarks
-8.4	0				
-9.0	0.6		FINE WHITE QUARTZ W/ SHELL HASH 5% L.125		
-9.5	1.1		SHELL HASH L.25		
-9.7	1.3		SAME AS TOP LAYER		
-10.2	1.8		SHELL HASH L.125		
			FINE WHITE QUARTZ SAND W/ SHELL HASH 5% L.125	-3.0	MEAN - 0.25 mm SILT - 1.3%
-13.1	4.7				
	5		FINE WHITE QUARTZ W/ SHELL HASH L.0.125"		
-15.2	6.8				
			FINE WHITE QUARTZ SAND W/ 10% SHELL HASH L.125"	-7.3	MEAN - 0.26 mm SILT - 1.8%
-17.9	9.5				
	10		FINE WHITE QUARTZ W/ 40% SHELL HASH L.125		
-19.1	10.7				
			FINE GRAY QUARTZ SAND	-11.2	MEAN 0.17 mm SILT 4.1%
-20.7	12.3				
	15				
	20				

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

TESTED BY: ON: 11-20-91

SAMPLE NO.: BSP2-3
SAMPLE ELEV. (FT. NGVD): -8.4
SAMPLE DEPTH (FT.): -3.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 259.92
SAMPLE WEIGHT AFTER WASH (GRAMS): 257.06

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	4.38	1.69	98.31
7	-1.5	2.800	5.88	2.26	97.74
10	-1.0	2.000	7.46	2.87	97.13
14	-0.5	1.400	8.79	3.38	96.62
18	0.0	1.000	10.52	4.05	95.95
25	0.5	.710	12.58	4.84	95.16
35	1.0	.500	21.48	8.26	91.74
45	1.5	.355	33.47	12.88	87.12
60	2.0	.250	65.23	25.10	74.90
80	2.5	.180	209.00	80.41	19.59
120	3.0	.125	251.51	96.76	3.24
170	3.5	.090	256.25	98.59	1.41
200	3.75	.075	256.62	98.73	1.27
230	4.0	.063	258.14	99.32	.68
PAN			259.92	100.00	.00

SIEVE LOSS(g):	.00		
MEDIAN (mm):	.214	MEAN (mm):	.252
SILT/CLAY:	1.27%	SORTING:	.491
SKEWNESS:	-.981	KURTOSIS:	2.182

PHI(5):	.52	PHI(16):	1.63	PHI(25):	2.00
PHI(50):	2.23	PHI(75):	2.45	PHI(84):	2.61
PHI(95):	2.95				
COEFFICIENT OF CURVATURE : 1.084					
COEFFICIENT OF UNIFORMITY: 1.578					

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: BSP2-03.TAB

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

TESTED BY: ON: 11-20-91

SAMPLE NO.: BSP2-7
SAMPLE ELEV. (FT. NGVD): -8.4
SAMPLE DEPTH (FT.): -7.3
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 259.41
SAMPLE WEIGHT AFTER WASH (GRAMS): 255.10

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	1.56	.60	99.40
7	-1.5	2.800	2.84	1.09	98.91
10	-1.0	2.000	5.41	2.09	97.91
14	-0.5	1.400	8.12	3.13	96.87
18	0.0	1.000	11.42	4.40	95.60
25	0.5	.710	14.66	5.65	94.35
35	1.0	.500	24.64	9.50	90.50
45	1.5	.355	37.78	14.56	85.44
60	2.0	.250	65.41	25.21	74.79
80	2.5	.180	181.88	70.11	29.89
120	3.0	.125	249.05	96.01	3.99
170	3.5	.090	254.13	97.96	2.04
200	3.75	.075	254.85	98.24	1.76
230	4.0	.063	257.04	99.09	.91
PAN			259.40	100.00	.00

SIEVE LOSS(g): .01
MEDIAN (mm): .206
SILT/CLAY: 1.76%
SKEWNESS: -1.332
MEAN (mm): .256
SORTING: .600
KURTOSIS: 1.859

PHI(5): .24 PHI(16): 1.57 PHI(25): 1.99
PHI(50): 2.28 PHI(75): 2.59 PHI(84): 2.77
PHI(95): 2.98
COEFFICIENT OF CURVATURE : 1.036
COEFFICIENT OF UNIFORMITY: 1.646

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: BSP2-07.TAB

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

TESTED BY: ON: 11-20-91

SAMPLE NO.: BSP2-11
SAMPLE ELEV. (FT. NGVD): -8.4
SAMPLE DEPTH (FT.): -11.2
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 215.40
SAMPLE WEIGHT AFTER WASH (GRAMS): 207.70

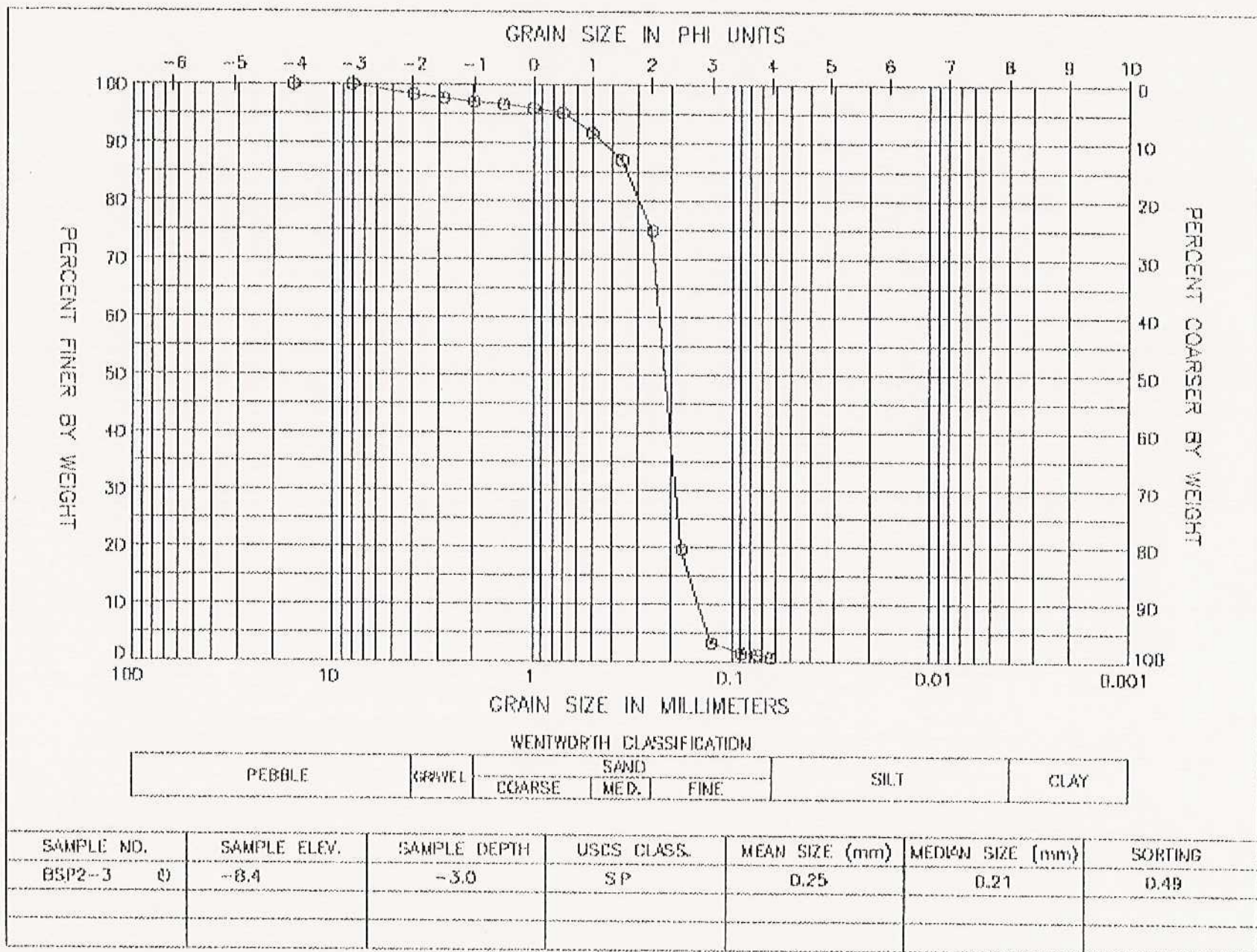
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.0	16.000	.00	.00	100.00
5/16	-3.0	8.000	.00	.00	100.00
5	-2.0	4.000	.97	.45	99.55
7	-1.5	2.800	1.40	.65	99.35
10	-1.0	2.000	2.25	1.04	98.96
14	-0.5	1.400	2.99	1.39	98.61
18	0.0	1.000	3.94	1.83	98.17
25	0.5	.710	4.95	2.30	97.70
35	1.0	.500	9.28	4.31	95.69
45	1.5	.355	15.58	7.23	92.77
60	2.0	.250	25.47	11.82	88.18
80	2.5	.180	81.35	37.77	62.23
120	3.0	.125	171.09	79.43	20.57
170	3.5	.090	203.36	94.41	5.59
200	3.75	.075	206.60	95.91	4.09
230	4.0	.063	210.73	97.83	2.17
PAN			215.44	100.02	-.02

SIEVE LOSS(g):	-.04		
MEDIAN (mm):	.160	MEAN (mm):	.174
SILT/CLAY:	4.09%	SORTING:	.536
SKEWNESS:	-.577	KURTOSIS:	1.467

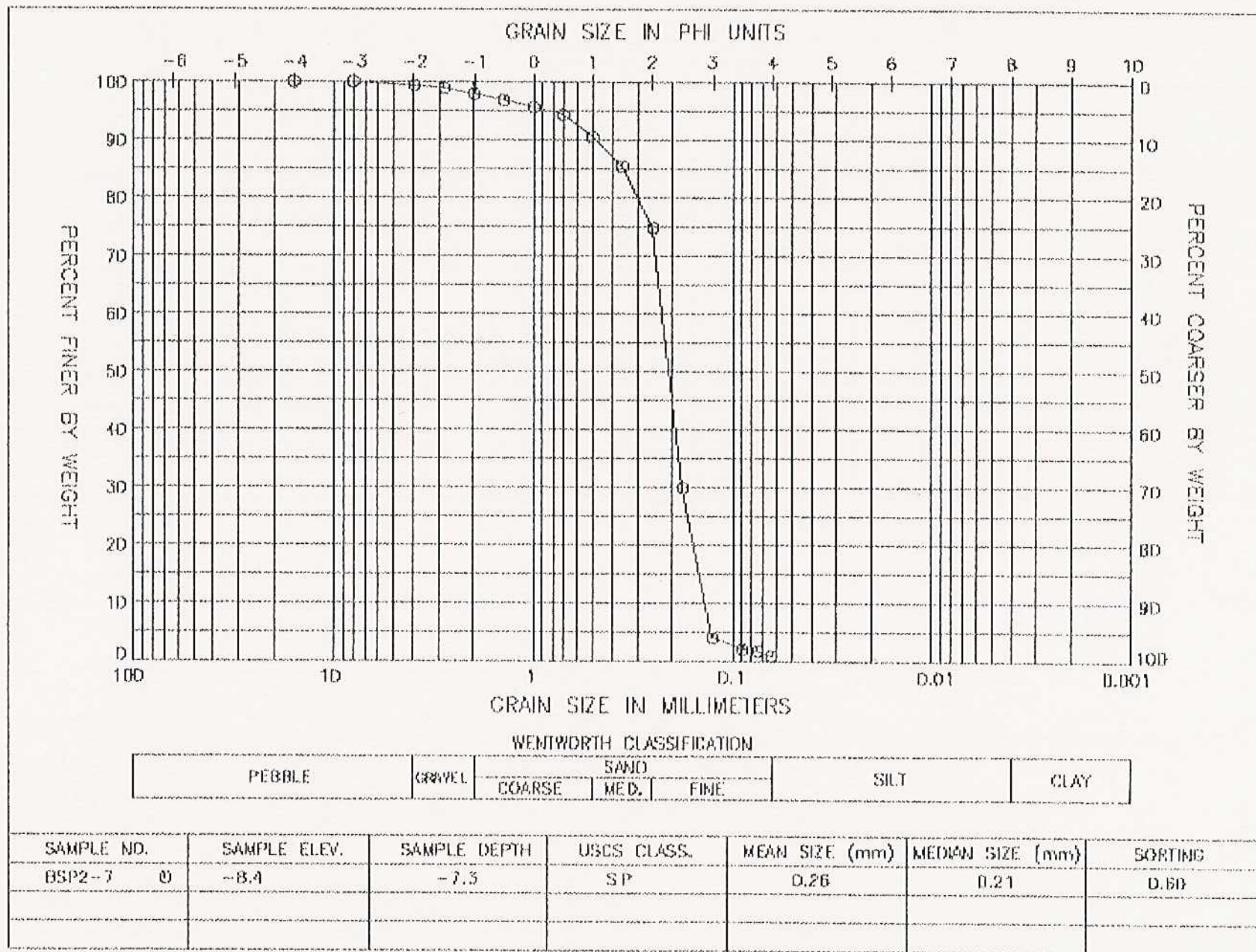
PHI(5):	1.12	PHI(16):	2.08	PHI(25):	2.25
PHI(50):	2.65	PHI(75):	2.95	PHI(84):	3.15
PHI(95):	3.60				
COEFFICIENT OF CURVATURE : 1.076					
COEFFICIENT OF UNIFORMITY: 1.773					

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: BSP2-11.TAB

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



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



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

