

VIBRACORE LOG

Project: <u>CAPTIVA ISLAND, PHASE II</u>		Core No: <u>C-9</u>	
Coordinates:	Date: <u>12/2/90</u>	Water Depth <u>26'</u>	NGVD
N = <u>785388</u>	Start Time <u>1447</u>	Driller <u>RODNEY MEYER</u>	
E = <u>430655</u>	End Time _____	Client Rep. <u>JEFF L. ANDREWS</u>	

	Elev.	Depth	Legend	Description	Samp. No.	Remarks
Core Diam. <u>3"</u>	-26'	0		GREY, SILTY FINE	(1)	SM
Length of Barrel <u>20'</u>	-26.7'	1.0		QUARTZ SAND w/	0.7'	
Penetration Depth <u>6.5'</u>	-27'			SOME SHELL HASH	(-26.7)	
Length Recovered <u>4.5'</u>				GREY SILTY FINE	(2)	
Length Retained <u>4.5'</u>	-28.5'		SAND, QUARTZ,	2.5'	SP	
Remarks:			w/ SHELL HASH	(-28.5)		
REFUSAL AT 6.5' SOLID PIECE OF CEMENTED SHELLROCK IN BIT.	-29.4'	3.4		FRAGMENTS		
	-30.5'	4.5		GREY SILTY CEMENTED SHELL		
		5		BIT		
Support Vessel <u>DANIELLE MARIE</u>		10				
Positioning System <u>TRISPOUNDER</u>						
Positioning Remarks:						
Weather <u>CLEAR</u>		15				
Wind Dir: <u>NE</u>						
Est. Speed <u>10-15 KTS</u>						
Waves Dir: <u>NE</u>						
Height <u>1'-2' CALM-CHOP</u>						
Current Dir: <u>SOUTH</u>						
Est. Speed: <u>N/A</u>						
Analysis By: <u>KEN JACKSON</u>		20				
Date: <u>DEC. 20-27, 1990</u>						
Analysis Method:						
<u>VISUAL LOG</u>						
<u>MECHANICAL SIEVE</u>						

GRADATION ANALYSIS REPORT
CAPTIVA ISLAND, SAND SEARCH, 8401.65

TESTED BY: KCJ ON: DEC.1990

SAMPLE NO.: C-9
SAMPLE ELEV. (FT. NGVD): -26.7
SAMPLE DEPTH (FT.): 0.7
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SM

DRY SAMPLE WEIGHT (GRAMS): 234.10
SAMPLE WEIGHT AFTER WASH (GRAMS): 165.40

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5	-2.0	4.000	10.10	4.31	95.69
7	-1.5	2.800	15.10	6.45	93.55
10	-1.0	2.000	21.90	9.35	90.65
14	-0.5	1.400	28.10	12.00	88.00
18	0.0	1.000	34.20	14.61	85.39
25	0.5	.710	42.80	18.28	81.72
35	1.0	.500	53.70	22.94	77.06
45	1.5	.355	61.50	26.27	73.73
60	2.0	.250	70.00	29.90	70.10
80	2.5	.180	80.10	34.22	65.78
120	3.0	.125	98.40	42.03	57.97
170	3.5	.090	144.00	61.51	38.49
200	3.75	.075	160.20	68.43	31.57
230	4.0	.063	198.65	84.86	15.14
PAN			234.10	100.00	.00

SIEVE LOSS(g):	.00	MEAN (mm):	.261
MEDIAN (mm):	.108	SORTING:	1.899
SILT/CLAY:	31.57%	KURTOSIS:	.967
SKEWNESS:	-4.094		

PHI(5): -1.84	PHI(16): .19	PHI(25): 1.31
PHI(50): 3.20	PHI(75): 3.85	PHI(84): 3.99
PHI(95): 4.15		

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: A:CIC9A.TAB

GRADATION ANALYSIS REPORT
CAPTIVA ISLAND, SAND SEARCH, 8401.65

TESTED BY: KCJ ON: DEC.1990

SAMPLE NO.: C-9
SAMPLE ELEV. (FT. NGVD): -28.5
SAMPLE DEPTH (FT.): 2.5
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 275.60
SAMPLE WEIGHT AFTER WASH (GRAMS): 249.60

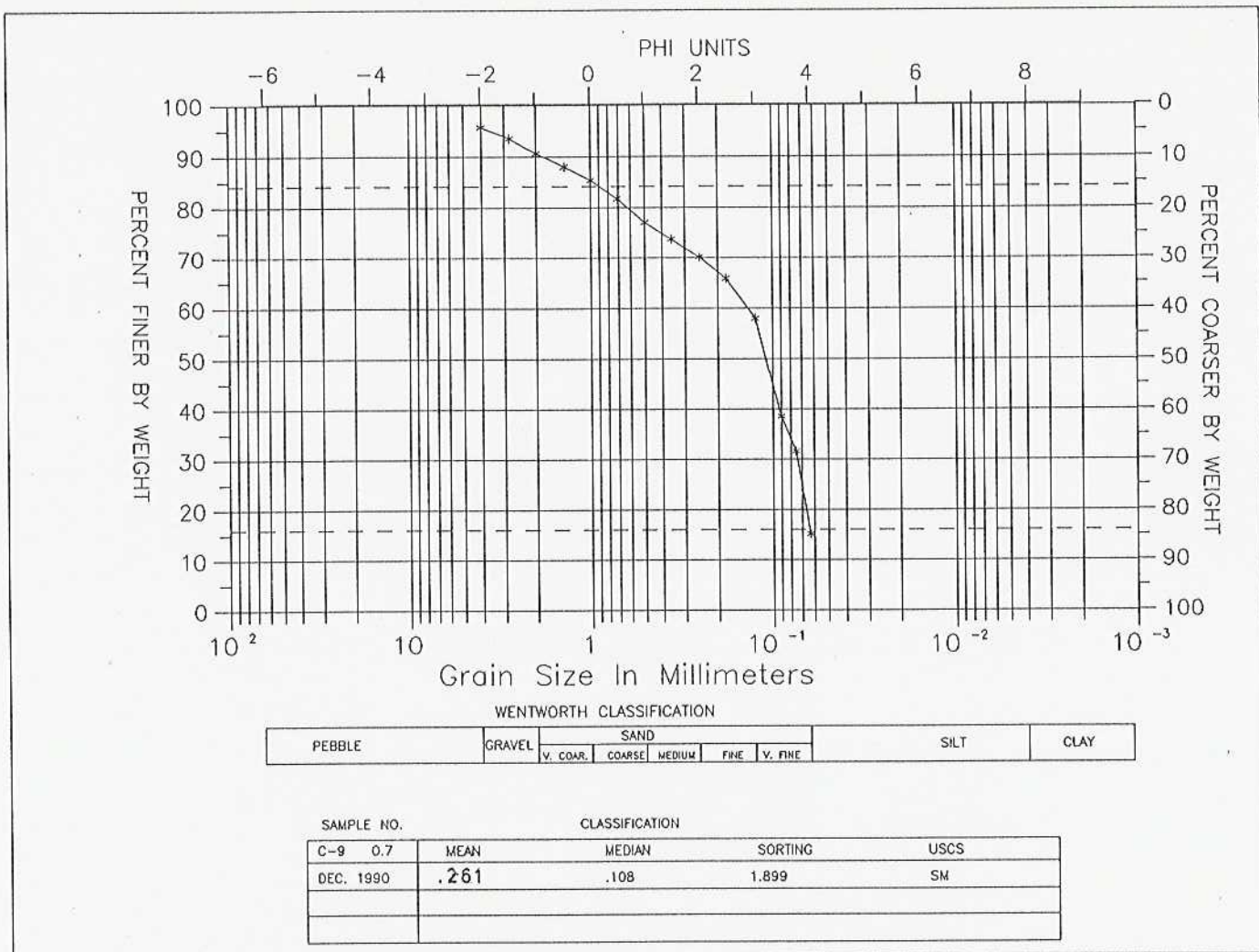
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5	-2.0	4.000	42.10	15.28	84.72
7	-1.5	2.800	70.10	25.44	74.56
10	-1.0	2.000	94.90	34.43	65.57
14	-0.5	1.400	113.60	41.22	58.78
18	0.0	1.000	127.50	46.26	53.74
25	0.5	.710	141.80	51.45	48.55
35	1.0	.500	155.50	56.42	43.58
45	1.5	.355	164.10	59.54	40.46
60	2.0	.250	175.20	63.57	36.43
80	2.5	.180	187.10	67.89	32.11
120	3.0	.125	210.90	76.52	23.48
170	3.5	.090	237.40	86.14	13.86
200	3.75	.075	246.20	89.33	10.67
230	4.0	.063	261.60	94.92	5.08
PAN			275.60	100.00	.00

SIEVE LOSS(g):	.00	MEAN (mm):	.634
MEDIAN (mm):	.779	SORTING:	2.677
SILT/CLAY:	10.67%	KURTOSIS:	.602
SKWNESS:	.778		

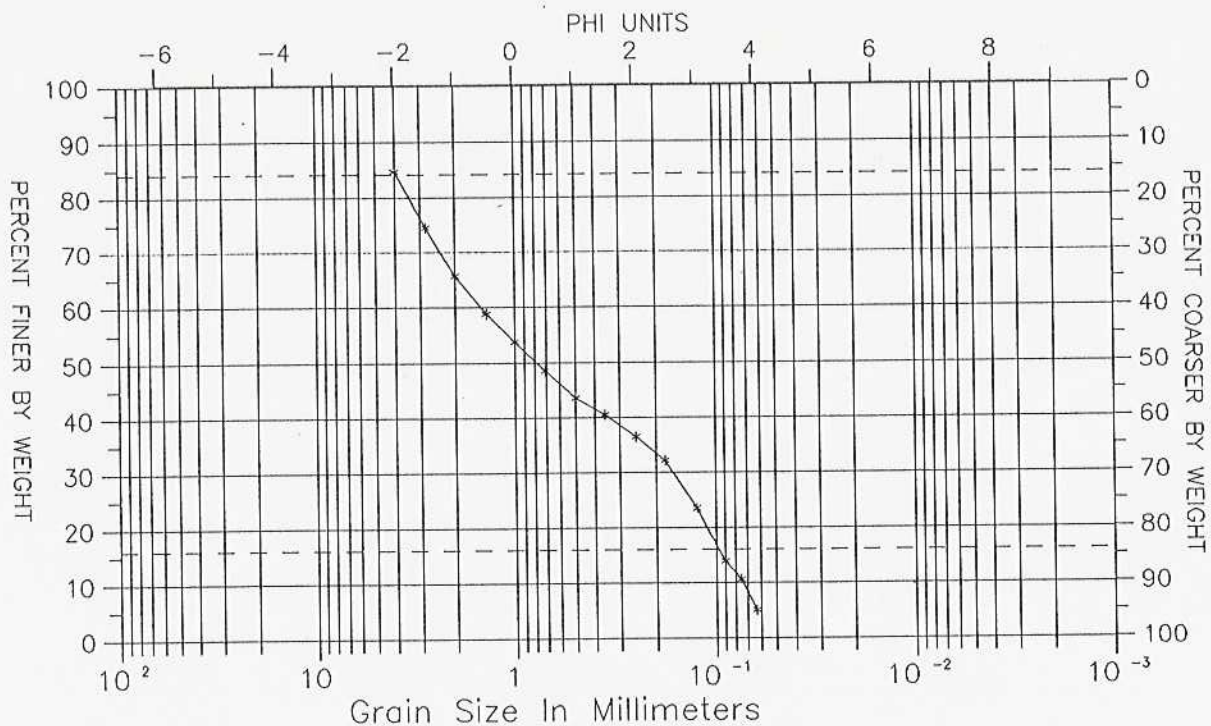
PHI(5): -2.51	PHI(16): -1.96	PHI(25): -1.52
PHI(50): .36	PHI(75): 2.91	PHI(84): 3.39
PHI(95): 4.00		

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: A:CIC9.TAB

CAPTIVA ISLAND
SAND SEARCH, PHASE 2
GRAIN SIZE DISTRIBUTION CURVE
CORE SAMPLE



CAPTIVA ISLAND
SAND SEARCH, PHASE 2
GRAIN SIZE DISTRIBUTION CURVE
CORE SAMPLE



WENTWORTH CLASSIFICATION

PEBBLE	GRAVEL	SAND					SILT	CLAY
		V. COAR.	COARSE	MEDIUM	FINE	V. FINE		

SAMPLE NO.

CLASSIFICATION

C-9	2.5	MEAN	MEDIAN	SORTING	USCS
DEC. 1990		.634	.779	2.677	SP-SM