

VIBRACORE LOG

Project: <u>TOWN OF PALM BEACH LAKE WORTH INLET</u>		Core No: <u>10</u>					
Coordinates: N = <u>282883.0</u> E = <u>817411.3</u>		Date: <u>9-21-88</u> Start Time <u>905</u> End Time <u>955</u>					
		Water Depth <u>37'</u> NGVD Driller <u>RODNEY MEYER</u> Client Rep. <u>JEFF ANDREWS</u>					
Core Diam. <u>3 1/4"</u> Length of Barrel <u>20'</u> Penetration Depth <u>20'</u> Length Recovered <u>20'</u> Length Retained <u>20'</u> Remarks: <u>PENETRATION TIME 23 MIN</u>		Elev.	Depth	Legend	Description	Samp. No.	Remarks
			0		SILT LAYER		
					GREY SAND (104R 7/1)	2.4'	(SP)
			5				
					SILT LAYER		
Support Vessel <u>M-3</u> Positioning System <u>TRISPONDER</u> Positioning Remarks:			10			9.7'	(SP)
Weather <u>21°F</u> <u>Wind</u> Dir: <u>SE</u> Est. Speed <u>5-10 Knts</u> <u>Waves</u> Dir: <u>SE</u> Height <u>0-2'</u> <u>Current</u> Dir: <u>NORTH</u> Est. Speed: <u>1-2 Knts</u>			15		CORAL FRAG & SHELL GREY SAND (104R 7/1)		
Analysis By: <u>FK</u> Date: <u>9/25/88</u> Analysis Method: <u>VISUAL LOG</u> <u>MECHANICAL SIEVE</u>			20			18.0'	(SP)

GRADATION ANALYSIS REPORT
TOWN OF PALM BEACH VIBRACORES 9/20 & 9/21/88

SAMPLE TYPE: CORE SAMPLES

NAME: FGK

DATE: OCT. 3, 1988

LINE NO. CORE #10
SAMPLE ELEVATION 2.4' DEEP

USCS
DESCRIPTION

DRY SAMPLE WT. (GRAMS) 539.36
SAMPLE WEIGHT AFTER WASH 536.31

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	GRAMS	%RET.	%PASS
5	-2.00	4.0	1.75	.32	99.68
7	-1.50	2.8	4.99	.93	99.07
10	-1.00	2.0	9.35	1.73	98.27
14	-0.50	1.4	19.36	3.59	96.41
18	0.00	1.0	35.86	6.65	93.35
25	0.50	0.71	58.45	10.84	89.16
35	1.00	0.5	114.26	21.18	78.82
45	1.50	0.355	256.14	47.49	52.51
60	2.00	0.25	300.61	55.73	44.27
80	2.50	0.18	405.43	75.17	24.83
120	3.00	0.125	513.31	95.17	4.83
170	3.50	0.09	534.02	99.01	.99
200	3.75	0.075	535.00	99.19	.81
230	4.00	0.063	535.36	99.54	.46
PAN			535.81	99.62	.38

SIEVE LOSS .50 MEDIAN (mm) .323
WT. AVE. (mm) .364 MEAN (mm) .307
SILT/CLAY % .72 SORTING .979
PHI(16) .724 PHI(84) 2.683

GRADATION ANALYSIS REPORT
TOWN OF PALM BEACH VIBRACORE 9/20 & 9/21/88

SAMPLE TYPE: CORE SAMPLES
NAME: FGK
DATE: OCT. 3, 1988

LINE NO. CORE #10
SAMPLE ELEVATION 9.7' DEEP

USCS
DESCRIPTION

DRY SAMPLE WT. (GRAMS) 488.30
SAMPLE WEIGHT AFTER WASH 484.91

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	GRAMS	%RET.	%PASS
5	-2.00	4.0	.51 .05	.10	99.90
7	-1.50	2.8	.71 .07	.15	99.85
10	-1.00	2.0	.75 .07	.15	99.85
14	-0.50	1.4	.95 .09	.19	99.81
18	0.00	1.0	1.51 .14	.31	99.69
25	0.50	0.71	2.80 .27	.57	99.43
35	1.00	0.5	11.50 1.09	2.36	97.64
45	1.50	0.355	240.00 22.72	49.15	50.85
60	2.00	0.25	336.97 31.90	69.01	30.99
80	2.50	0.18	421.06 39.86	86.23	13.77
120	3.00	0.125	472.70 44.73	96.81	3.19
170	3.50	0.09	483.22 45.74	98.96	1.04
200	3.75	0.075	483.49 40.77	99.01	.99
230	4.00	0.063	483.67 45.72	99.40	.60
PAN			484.16 40.73	99.50	.50

SIEVE LOSS .75 MEDIAN (mm) .351
WT. AVE. (mm) .282 MEAN (mm) .294
SILT/CLAY % .83 SORTING .638
PHI(16) 1.127 PHI(84) 2.403

GRADATION ANALYSIS REPORT
TOWN OF PALM BEACH VIBRACORES 9/20 & 9/21/88

SAMPLE TYPE: CORE SAMPLES
NAME: FGK
DATE: OCT. 3, 1988

LINE NO. CORE #10
SAMPLE ELEVATION 18' DEEP

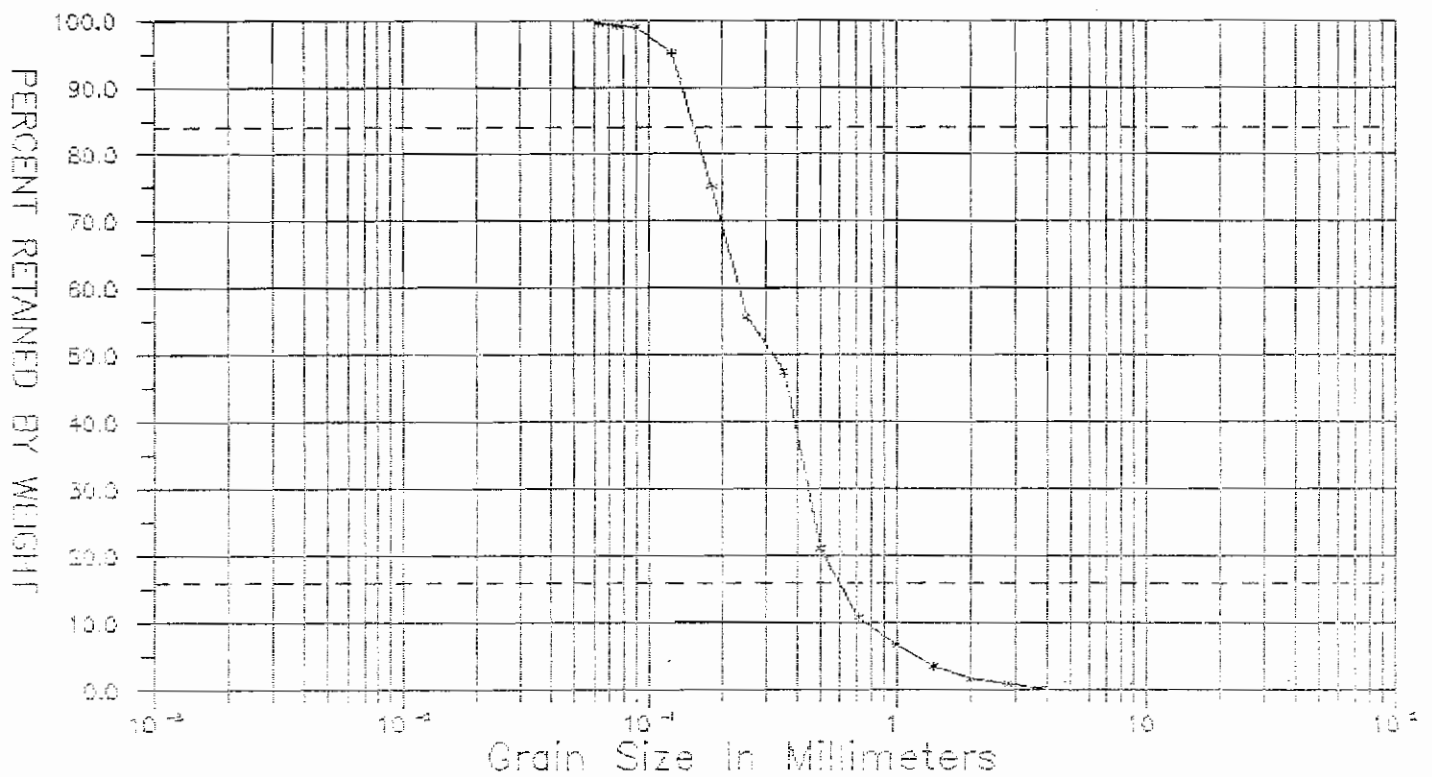
USCS
DESCRIPTION

DRY SAMPLE WT. (GRAMS) 621.32
SAMPLE WEIGHT AFTER WASH 616.04

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	GRAMS	%RET.	%PASS
5	-2.00	4.0	2.61	.42	99.58
7	-1.50	2.8	^{.19} 3.07	.49	99.51
10	-1.00	2.0	^{.23} 4.03	.65	99.35
14	-0.50	1.4	^{.30} 5.78	.93	99.07
18	0.00	1.0	^{.43} 8.01	1.29	98.71
25	0.50	0.71	^{.60} 11.47	1.85	98.15
35	1.00	0.5	^{.86} 31.32	5.04	94.96
45	1.50	0.355	^{2.34} 312.21	50.25	49.75
60	2.00	0.25	^{23.30} 446.17	71.81	28.19
80	2.50	0.18	^{30.30} 528.06	84.99	15.01
120	3.00	0.125	^{39.41} 607.60	97.79	2.21
170	3.50	0.09	^{45.35} 615.30	99.03	.97
200	3.75	0.075	^{45.92} 615.38	99.04	.96
230	4.00	0.063	^{95.93} 615.42	99.48	.52
PAN			^{45.93} 615.45	99.48	.52

SIEVE LOSS	.59	MEDIAN (mm)	.356
WT. AVE. (mm)	.307	MEAN (mm)	.293
SILT/CLAY %	.86	SORTING	.664
PHI(16)	1.105	PHI(84)	2.432

TOWN OF PALM BEACH VIBRACORES MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.		CLASSIFICATION		
CORE #10 2.4	MEAN	MEDIAN	SORTING	USCS
9/21/88	.307	.323	.979	SP

TOWN OF PALM BEACH VIBRACORES MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.		CLASSIFICATION		
CORE #10	9.71	MEAN	MEDIAN	USCS
9/21/88		.294	.361	SP

TOWN OF PALM BEACH VIBRACORES MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.		CLASSIFICATION		
COPE #10 18.0'	MEAN	MEDIAN	SORTING	USCS
9/21/88	.293	.366	.834	SP