

# VIBRACORE LOG

Project: <u>TOWN OF PALM BEACH - LAKE WORTH INLET</u> Core No: <u>7</u>						
Coordinates:		Date: <u>9-21-88</u>		Water Depth <u>23'</u> NGVD		
N = <u>985392.8</u>		Start Time <u>1321</u>		Driller <u>RODNEY MEYER</u>		
E = <u>815576.9</u>		End Time <u>1345</u>		Client Rep. <u>JEFF ANDREWS</u>		

	Elev.	Depth	Legend	Description	Samp. No.	Remarks
Core Diam. <u>3"</u>		0		GREY SAND (10/42 7/1)		
Length of Barrel <u>20'</u>					1.5'	(SP)
Penetration Depth <u>20'</u>				COARSE SHELL LAYER		
Length Recovered <u>14.6'</u>				GREY SAND (10/42 7/2)		
Length Retained <u>14.6'</u>		5				
Remarks: <u>PENETRATION TIME 15 MIN</u>						
Support Vessel <u>M-3</u>					7.6'	(SP)
Positioning System <u>TRISPONDER</u>						
Positioning Remarks:		10		2.5" DIA. CEMENTED SAND		
Weather <u>CLEAF</u>				GREY SAND (10/42 7/2)		
Wind Dir: <u>SE</u>					12.5'	(SP)
Est. Speed <u>5-10 knots</u>						
Waves Dir: <u>SE</u>						
Height <u>0-2</u>		15		CEMENTED SAND S		
Current Dir: <u>NORTH</u>						
Est. Speed: <u>1-2 knots</u>						
Analysis By: <u>FK</u>						
Date: <u>9/25/88</u>						
Analysis Method: <u>VISUAL LOG</u> <u>MECHANICAL SIEVE</u>		20				

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

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

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LINE NO. CORE #7  
SAMPLE ELEVATION 1.5' DEEP  
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USCS  
DESCRIPTION  
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DRY SAMPLE WT. (GRAMS) 647.98  
SAMPLE WEIGHT AFTER WASH 643.20  
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SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	GRAMS	%RET.	%PASS
5	-2.00	4.0	.98	.15	99.85
7	-1.50	2.8	2.27	.35	99.65
10	-1.00	2.0	4.95	.76	99.24
14	-0.50	1.4	6.17	.95	99.05
18	0.00	1.0	15.45	2.38	97.62
25	0.50	0.71	40.57	6.26	93.74
35	1.00	0.5	210.63	32.51	67.49
45	1.50	0.355	550.01	84.88	15.12
60	2.00	0.25	577.90	89.18	10.82
80	2.50	0.18	600.00	92.60	7.40
120	3.00	0.125	634.60	97.94	2.06
170	3.50	0.09	641.00	98.92	1.08
200	3.75	0.075	642.04	99.08	.92
230	4.00	0.063	642.54	99.53	.47
PAN			642.60	99.54	.46

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SIEVE LOSS .60 MEDIAN (mm) .452  
WT. AVE. (mm) .409 MEAN (mm) .475  
SILT/CLAY % .82 SORTING .411  
PHI(16) .662 PHI(84) 1.484  
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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 #7  
SAMPLE ELEVATION 7.6' DEEP  
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USCS  
DESCRIPTION  
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DRY SAMPLE WT. (GRAMS) 480.36  
SAMPLE WEIGHT AFTER WASH 476.59  
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SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	GRAMS	%RET.	%PASS
5	-2.00	4.0	.23	.05	99.95
7	-1.50	2.8	.56	.12	99.88
10	-1.00	2.0	1.45	.30	99.70
14	-0.50	1.4	1.76	.37	99.63
18	0.00	1.0	2.94	.61	99.39
25	0.50	0.71	7.92	1.65	98.35
35	1.00	0.5	18.67	3.89	96.11
45	1.50	0.355	60.42	12.58	87.42
60	2.00	0.25	117.96	24.56	75.44
80	2.50	0.18	274.95	57.24	42.76
120	3.00	0.125	462.02	96.18	3.82
170	3.50	0.09	474.21	98.72	1.28
200	3.75	0.075	475.42	98.97	1.03
230	4.00	0.063	475.49	99.38	.62
PAN			475.93	99.47	.53

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SIEVE LOSS .66 MEDIAN (mm) .196  
WT. AVE. (mm) .202 MEAN (mm) .215  
SILT/CLAY % .89 SORTING .596  
PHI(16) 1.621 PHI(84) 2.814  
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GRADATION ANALYSIS REPORT  
TOWN OF PALM BEACH VIBRACORES 9/20 & 9/21/88

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

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LINE NO. CORE #7  
SAMPLE ELEVATION 12.5' DEEP  
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USCS  
DESCRIPTION  
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DRY SAMPLE WT. (GRAMS) 637.49  
SAMPLE WEIGHT AFTER WASH 633.54  
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SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	GRAMS	%RET.	%PASS
5	-2.00	4.0	1.02	.16	99.84
7	-1.50	2.8	2.04	.32	99.68
10	-1.00	2.0	2.95	.46	99.54
14	-0.50	1.4	6.17	.97	99.03
18	0.00	1.0	13.62	2.14	97.86
25	0.50	0.71	37.94	5.95	94.05
35	1.00	0.5	207.96	32.62	67.38
45	1.50	0.355	521.82	81.86	18.14
60	2.00	0.25	566.47	88.86	11.14
80	2.50	0.18	599.71	94.07	5.93
120	3.00	0.125	622.31	97.62	2.38
170	3.50	0.09	629.07	98.68	1.32
200	3.75	0.075	629.85	98.80	1.20
230	4.00	0.063	632.07	99.46	.54
PAN			632.91	99.59	.41

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SIEVE LOSS .63 MEDIAN (mm) .449  
WT. AVE. (mm) .403 MEAN (mm) .451  
SILT/CLAY % 1.10 SORTING .483  
PHI(16) .665 PHI(84) 1.631

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

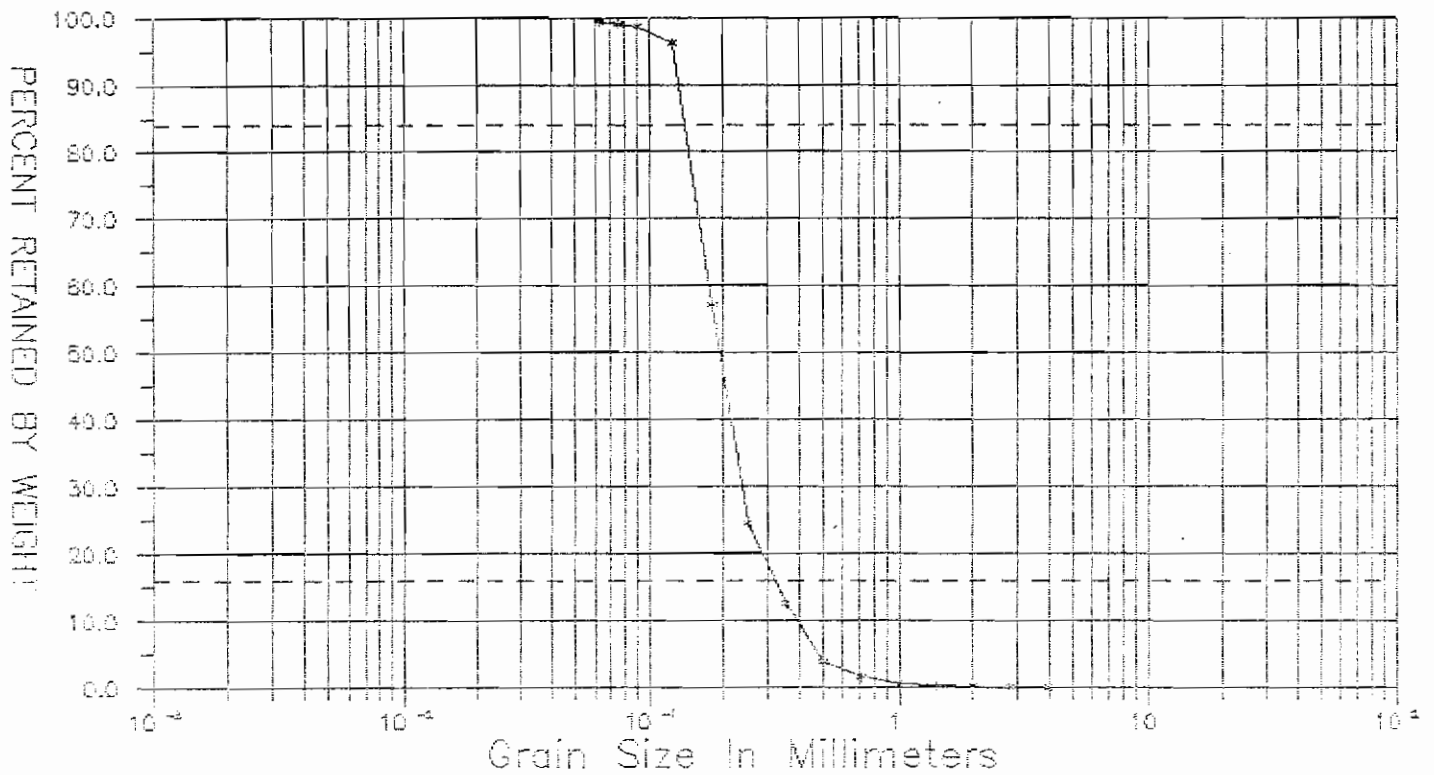
# TOWN OF PALM BEACH VIBRACORES MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.	CLASSIFICATION			
CORE #7 1.5'	MEAN	MEDIAN	SORTING	USCS
9/21/88	.475	.432	.411	SP

# TOWN OF PALM BEACH VIBRACORES MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.		CLASSIFICATION			
CORE #	DATE	MEAN	MEDIAN	SORTING	UNSC
7	9/21/88	.215	.198	.598	SP

# TOWN OF PALM BEACH VIBRACORES MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.		CLASSIFICATION		
CORE #7	12.5'	MEAN	MEDIAN	SORTING
5/21/88		451	449	483
				USCS
				SP