

DRILLING LOG		DIVISION: South Atlantic	INSTALLATION: Jacksonville District	SHEET 1 of 1
1. PROJECT CAPTIVA ISLAND SAND STUDY		10. SIZE AND TYPE OF BIT 3 5/8"		
2. LOCATION (Coordinates or Station) X=541019.17 Y=792936.78		11. DATUM FOR ELEVATION SHOWN (TBM or MSL) NGVD		
3. DRILLING AGENCY: Alpine Ocean Seismic Survey Inc.		12. MANUFACTURER'S DESIGNATION OF DRILL ALPINE PNEUMATIC VIBRACORE		
4. HOLE NO. (As shown on drawing title and file number) CIVC-00-16		13. TOT NO. OF OVERBURDEN SAMPLES TAKEN Disturbed: 0 Undisturbed: 0		
5. NAME OF DRILLER MAURIZIO ROSSI		14. TOTAL NO. OF CORE BOXES		
6. DIRECTION OF HOLE VERTICAL		15. ELEVATION GROUND WATER		
7. THICKNESS OF BURDEN 0.0 FT		16. DATE HOLE Started Completed 8/10/00 14:36		
8. DEPTH DRILLED INTO ROCK N/A		17. ELEVATION TOP OF HOLE - 44.2 FT		
9. TOTAL DEPTH OF HOLE 7.1 FT		18. TOTAL CORE RECOVERY FOR BORING 80.2%		
		19. SIGNATURE OF GEOLOGIST SK/ID		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS
-44.2	0					
	1		SAND, medium grained, some shell hash/shell fragments/whole shells, gray (5Y-5/1), (SP).		1	Sample #1, Depth = 1.0' Mean (mm): 0.45, Phi Sorting: 1.16 Silt: 1.20% (SW)
-46.9	2					
	3		medium grained, little shell hash/shell fragments/whole shells, gray (5Y-5/1), (SP).		2	Sample #2, Depth = 3.2' Mean (mm): 0.36, Phi Sorting: 1.17 Silt: 1.82% (SW)
-48.2	4					
	5		fine grained, trace shell hash/shell fragments, gray (5Y-5/1), (SP).		3	Sample #3, Depth = 5.0' Mean (mm): 0.23, Phi Sorting: 1.13 Silt: 4.64% (SW)
-49.9	6					
	7		No Recovery			
-51.3	8					
	9		End of Boring			
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22		Note: 1) Soils are field visually classified in accordance with the Unified Soil Classification System.			Note: This column contains laboratory data.
	23					
	24					

Gradation Analysis Report

Proj Name: Captiva Island
 Sample: CIVC-00-16#1
 Date: 1/1/2001
 By: ID



2841 N. W. Boca Raton Blvd. Boca Raton FL 33428

Elevation:	-45.2	Feet	Easting:	541019.17	State Plane	1983
Reference:	NGVD 29		Northing:	792936.78	FLA West	Feet

USCS:	SW	Munsel Dry:	5Y-6/1	Munsel Wet:	5Y-6/1
Comments:	0				

Dry Wt.	58.96	Percent Silt:	1.20
Wash Wt.	58.25		

Sieve Size	PHI Size	mm Size	Grams Retained	% Weight Retained	Cum. Grams Retained	C % Weight Retained
5/8	-4.000	16.000	0.000	0.000	0.000	0.000
5/16	-3.000	8.000	0.760	1.289	0.760	1.289
5	-2.000	4.000	0.080	0.136	0.840	1.425
7	-1.500	2.828	0.310	0.526	1.150	1.950
10	-1.000	2.000	0.880	1.493	2.030	3.443
14	-0.500	1.414	1.700	2.883	3.730	6.326
18	0.000	1.000	3.470	5.885	7.200	12.212
25	0.500	0.707	6.220	10.550	13.420	22.761
35	1.000	0.500	7.060	11.974	20.480	34.735
45	1.500	0.354	8.440	14.315	28.920	49.050
60	2.000	0.250	19.320	32.768	48.240	81.818
80	2.500	0.177	8.120	13.772	56.360	95.590
120	3.000	0.125	1.700	2.883	58.060	98.474
170	3.500	0.088	0.140	0.237	58.200	98.711
200	3.750	0.074	0.030	0.051	58.230	98.762
230	4.000	0.063	0.020	0.034	58.250	98.796
Pan	Pan	0.053	0.710	1.204	58.960	100.000

PHI 5	PHI 16	PHI 25	PHI 50	PHI 75	PHI 84	PHI 95
-0.73	0.18	0.59	1.51	1.90	2.08	2.48

Median phi:	1.51	Median mm:	0.35
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	Mean phi	Mean mm	Sorting	Skewness	Kurtosis
Graphic	1.10	0.47	0.96	-0.61	1.01
Moment	1.14	0.45	1.16	-0.42	1.61

Gradation Analysis Report

Proj Name: Captiva Island
 Sample: CIVC-00-16#2
 Date: 1/1/2001
 By: ID



2841 N. W. Boca Raton Blvd. Boca Raton FL 33428

Elevation:	-47.4	Feet	Easting:	541019.17	State Plane	1983
Reference:	NGVD 29		Northing:	792936.78	FLA West	Feet

USCS:	SW	Munsel Dry:	5Y-6/1	Munsel Wet:	5Y-6/1
Comments:	0				

Dry Wt.	67.03	Percent Silt:	1.82
Wash Wt.	65.82		

Sieve Size	PHI Size	mm Size	Grams Retained	% Weight Retained	Cum. Grams Retained	C % Weight Retained
5/8	-4.000	16.000	0.000	0.000	0.000	0.000
5/16	-3.000	8.000	0.330	0.492	0.330	0.492
5	-2.000	4.000	0.430	0.642	0.760	1.134
7	-1.500	2.828	0.240	0.358	1.000	1.492
10	-1.000	2.000	0.690	1.029	1.690	2.521
14	-0.500	1.414	1.500	2.238	3.190	4.759
18	0.000	1.000	2.680	3.998	5.870	8.757
25	0.500	0.707	4.700	7.012	10.570	15.769
35	1.000	0.500	5.600	8.354	16.170	24.124
45	1.500	0.354	7.130	10.637	23.300	34.761
60	2.000	0.250	21.460	32.016	44.760	66.776
80	2.500	0.177	15.250	22.751	60.010	89.527
120	3.000	0.125	5.140	7.668	65.150	97.195
170	3.500	0.088	0.540	0.806	65.690	98.001
200	3.750	0.074	0.110	0.164	65.800	98.165
230	4.000	0.063	0.000	0.000	65.800	98.165
Pan	Pan	0.053	1.220	1.820	67.020	99.985

PHI 5	PHI 16	PHI 25	PHI 50	PHI 75	PHI 84	PHI 95
-0.47	0.51	1.04	1.74	2.18	2.38	2.86

Median phi:	1.74	Median mm:	0.30
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	Mean phi	Mean mm	Sorting	Skewness	Kurtosis
Graphic	1.40	0.38	0.97	-0.55	1.20
Moment	1.46	0.36	1.17	-0.45	1.75

Gradation Analysis Report

Proj Name: Captiva Island
 Sample: CIVC-00-16#3
 Date: 1/1/2001
 By: ID



2841 N. W. Boca Raton Blvd. Boca Raton FL 33428

Elevation:	-49.2	Feet	Easting:	541019.17	State Plane	1983
Reference:	NGVD 29		Northing:	792936.78	FLA West	Feet

USCS:	SW	Munsel Dry:	5Y-6/1	Munsel Wet:	5Y-6/1
Comments:	0				

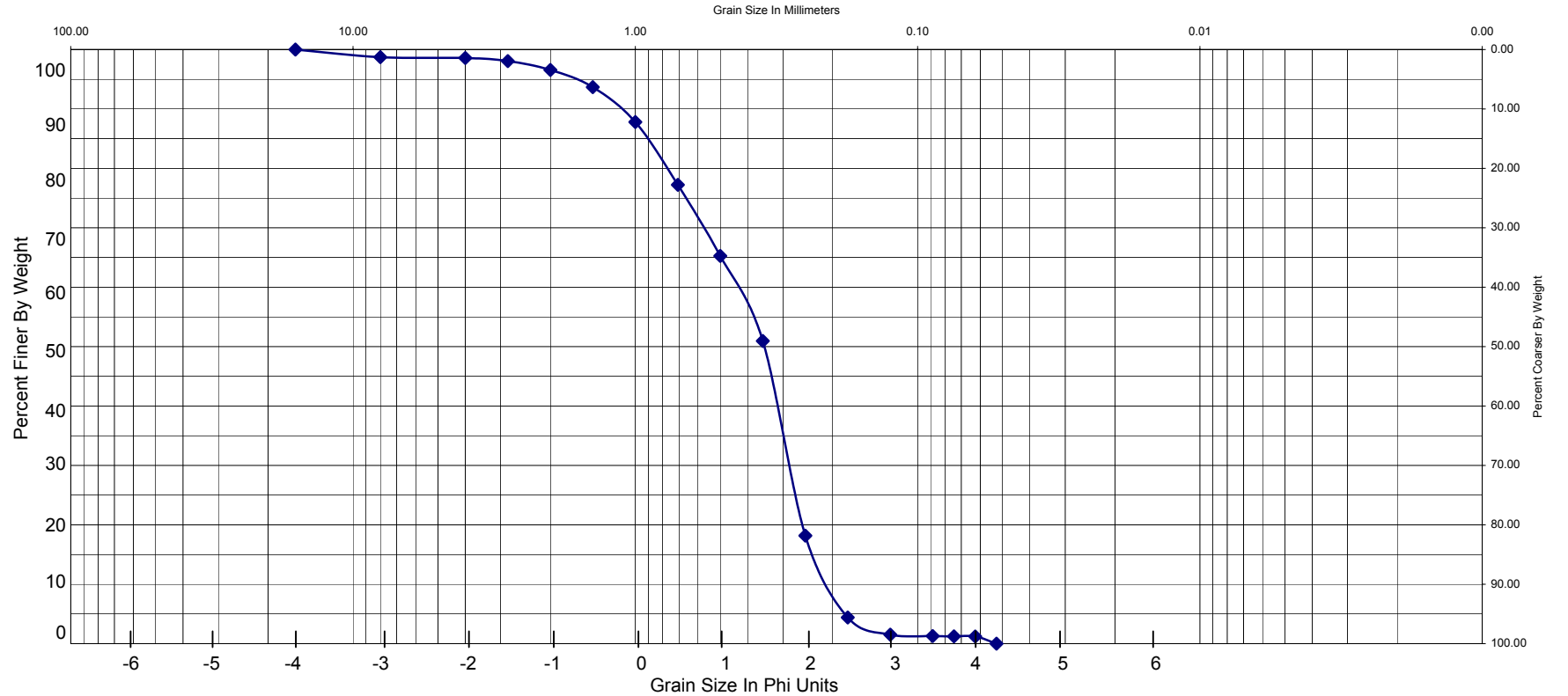
Dry Wt.	70.53	Percent Silt:	4.64
Wash Wt.	67.26		

Sieve Size	PHI Size	mm Size	Grams Retained	% Weight Retained	Cum. Grams Retained	C % Weight Retained
5/8	-4.000	16.000	0.000	0.000	0.000	0.000
5/16	-3.000	8.000	0.000	0.000	0.000	0.000
5	-2.000	4.000	0.180	0.255	0.180	0.255
7	-1.500	2.828	0.220	0.312	0.400	0.567
10	-1.000	2.000	0.400	0.567	0.800	1.134
14	-0.500	1.414	0.820	1.163	1.620	2.297
18	0.000	1.000	1.250	1.772	2.870	4.069
25	0.500	0.707	1.940	2.751	4.810	6.820
35	1.000	0.500	2.530	3.587	7.340	10.407
45	1.500	0.354	4.180	5.927	11.520	16.333
60	2.000	0.250	13.480	19.112	25.000	35.446
80	2.500	0.177	19.890	28.201	44.890	63.647
120	3.000	0.125	18.270	25.904	63.160	89.551
170	3.500	0.088	3.530	5.005	66.690	94.556
200	3.750	0.074	0.460	0.652	67.150	95.208
230	4.000	0.063	0.080	0.113	67.230	95.321
Pan	Pan	0.053	3.270	4.636	70.500	99.957

PHI 5	PHI 16	PHI 25	PHI 50	PHI 75	PHI 84	PHI 95
0.17	1.47	1.73	2.26	2.72	2.89	3.65

Median phi:	2.26	Median mm:	0.21
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	Mean phi	Mean mm	Sorting	Skewness	Kurtosis
Graphic	2.09	0.24	0.88	-0.34	1.44
Moment	2.13	0.23	1.13	-0.42	2.10



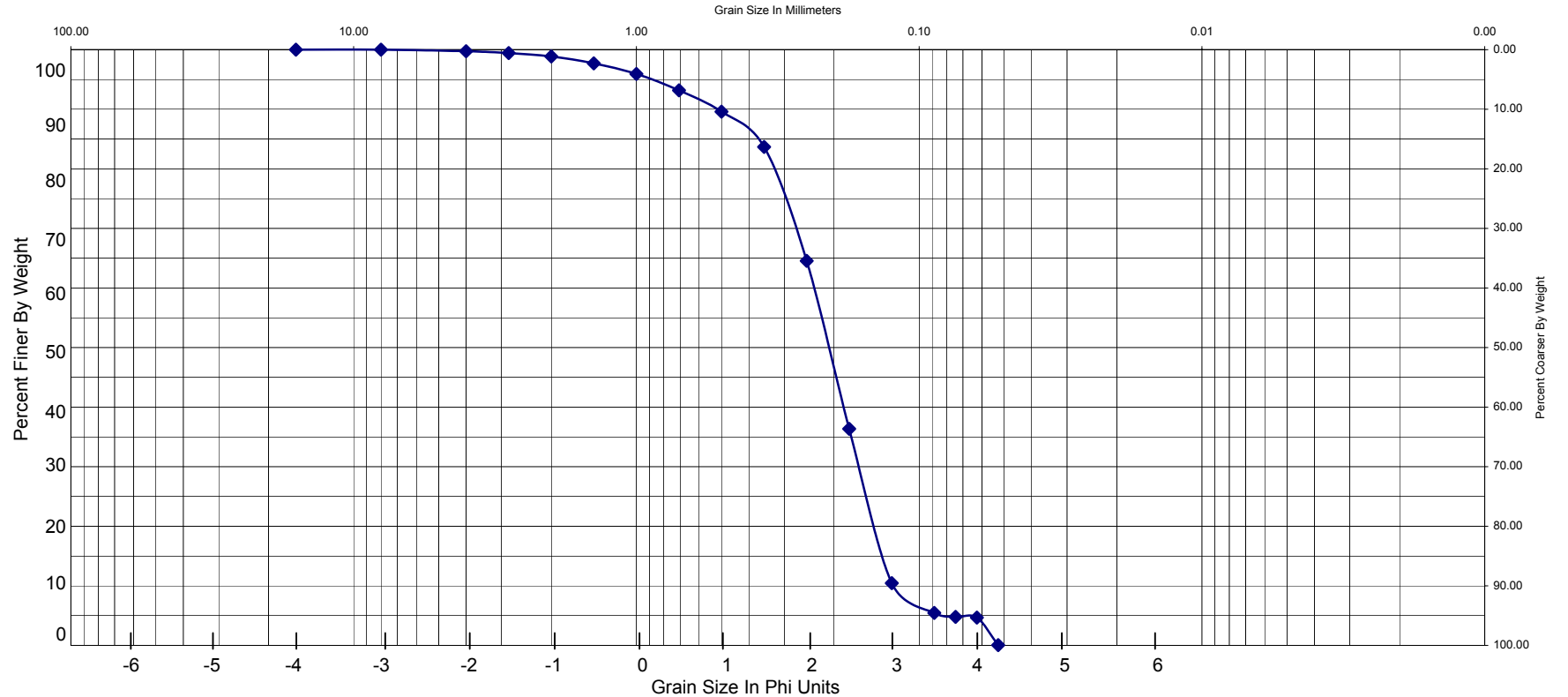
Gravel		Sand			Silt or Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample No.	Depth	Description	USCS	% Silt	Median	Mean	Skew	Kurt	Sort	PL	LL	PI	Sample Information
◆ CIVC-00-16#1	1.0		SW	1.20	0.35	0.45	-0.42	1.61	1.16	NA	NA	NA	Project Name: Captiva Island
													Sample Type: Vibracores
													Collection Date: 1/1/2001
													Analysis By: ID



COASTAL PLANNING & ENGINEERING, INC.
2481 N. W. BOCA RATON BLVD.
BOCA RATON, FLORIDA 33431

Easting (X):	541019.17 Feet
Northing (Y):	792936.78 Feet
Sample Elevation:	-45.2 NGVD 29
Coord. System:	State Plane 1983 FLA West



Gravel		Sand			Silt or Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample No.	Depth	Description	USCS	% Silt	Median	Mean	Skew	Kurt	Sort	PL	LL	PI	Sample Information
◆ CIVC-00-16#3	5.0		SW	4.64	0.21	0.23	-0.42	2.1	1.13	NA	NA	NA	Project Name: Captiva Island
													Sample Type: Vibracores
													Collection Date: 1/1/2001
													Analysis By: ID
													Easting (X): 541019.17 Feet
													Northing (Y): 792936.78 Feet
													Sample Elevation: -49.2 NGVD 29
													Coord. System: State Plane 1983 FLA West



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