

**Onshore Grab Sample**

**Sample:** SA-27-BB  
**Sample Taken By:** D. Phelps  
**Sample Collected On:** 12/16/09  
**Splits?** N/A

**County:** Sarasota  
**Latitude:** 27° 06' 3.6"  
**Longitude:** 82° 27' 38.7"  
**Datum:** WGS 84  
**Surf. Elev:** N/A  
**Datum:** N/A

**Fine Data Summary**

Total Sample Weight 57.222 grams  
Total Fines in Sample 0.419 grams  
Total Percent Fines 0.73 %

**Dry Sieving Summary**

Total Sample Weight 56.608 grams  
Total Digested Weight 8.815 grams  
Total Carbonate Weight 47.793 grams  
Total Silica % 15.57 %  
Total Carbonate % 84.43 %  
Carbonate/Silica Ratio 5.422

**General Comments:**

Not Enough Sample to do Post-Digestion Analysis

**Description**

Worked By: M. Ladle

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SA-27-BB

Total Sample Mass: 56.608 grams

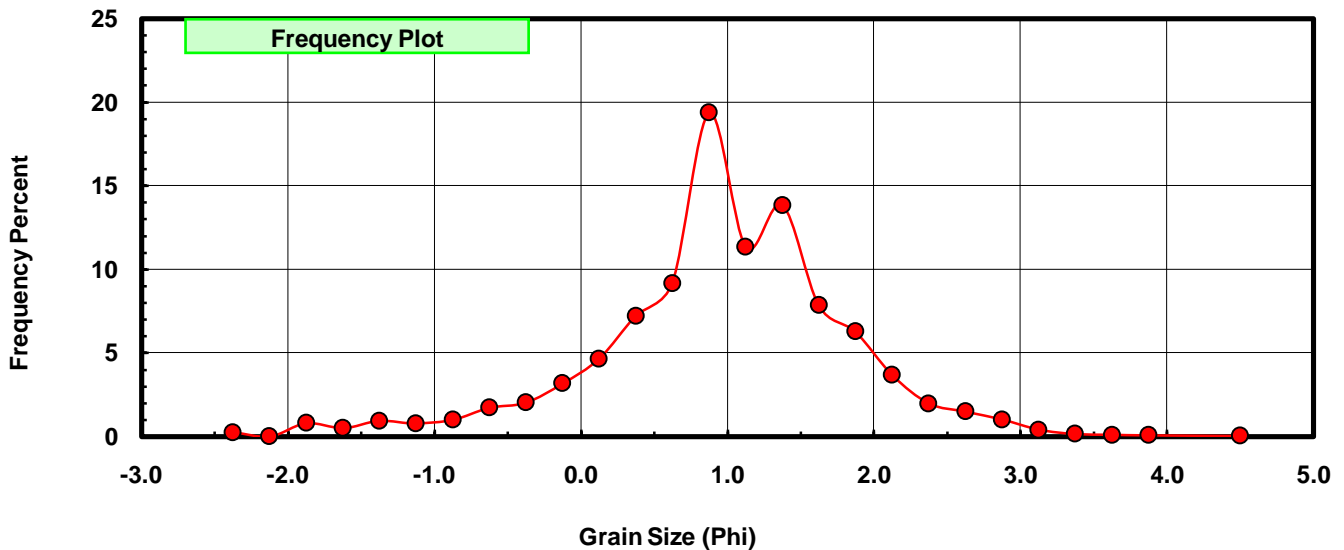
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.147	0.260	0.260
-2.00	-2.125	0.000	0.000	0.260
-1.75	-1.875	0.454	0.802	1.062
-1.50	-1.625	0.283	0.500	1.562
-1.25	-1.375	0.531	0.938	2.500
-1.00	-1.125	0.446	0.788	3.288
-0.75	-0.875	0.571	1.009	4.296
-0.50	-0.625	0.984	1.738	6.034
-0.25	-0.375	1.152	2.035	8.070
0.00	-0.125	1.801	3.182	11.251
0.25	0.125	2.636	4.657	15.908
0.50	0.375	4.084	7.215	23.122
0.75	0.625	5.198	9.182	32.305
1.00	0.875	10.963	19.367	51.671
1.25	1.125	6.416	11.334	63.005
1.50	1.375	7.840	13.850	76.855
1.75	1.625	4.445	7.852	84.707
2.00	1.875	3.558	6.285	90.992
2.25	2.125	2.085	3.683	94.676
2.50	2.375	1.124	1.986	96.661
2.75	2.625	0.847	1.496	98.158
3.00	2.875	0.576	1.018	99.175
3.25	3.125	0.234	0.413	99.588
3.50	3.375	0.090	0.159	99.747
3.75	3.625	0.060	0.106	99.853
4.00	3.875	0.052	0.092	99.945
5.00	4.50	0.031	0.055	100.000

Statistical Results			
Mean:	0.9628	phi	(0.513 mm)
Standard Dev:	0.8831	phi-units	(0.5422 mm)
Skewness:	-0.5327	dimensionless	
Kurtosis:	4.4747	dimensionless	
5th Moment:	-5.6753	dimensionless	
6th Moment:	34.7177	dimensionless	
RARD *	0.9172	dimensionless	
Median	0.8534	phi	(0.5535 mm)

\* RARD = reciprocal absolute relative dispersion (see below)

Statistical Explanation	
Calculations based on the Method of Moments	
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0	
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0	
For Further Explanation, See Basille et al. 2002	
Millimeter data calculated by $mm = 2^{-(\phi)}$	

Reciprocal Absolute Relative Dispersion (RARD) Scale	
< 0.5	Excellent homogeneity (e.g., beaches)
0.5 to 1.0	Good homogeneity
1.0 to 1.33	Fair homogeneity
> 1.33	Poor homogeneity (e.g., glacial)



# SA-27-BB

