

Onshore Grab Sample

Sample: SA-30
Sample Taken By: D. Phelps
Sample Collected On: 12/16/09
Splits? N/A

County: Sarasota
Latitude: 27° 03' 44.8"
Longitude: 82° 26' 47.2"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	73.269 grams
Total Fines in Sample	0.280 grams
Total Percent Fines	0.38 %

Dry Sieving Summary

Total Sample Weight	73.143 grams
Total Digested Weight	8.556 grams
Total Carbonate Weight	64.587 grams
Total Silica %	11.70 %
Total Carbonate %	88.30 %
Carbonate/Silica Ratio	7.549

General Comments:

Not Enough Sample to do Post-Digestion Analysis

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

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Total Sample Mass: 73.143 grams

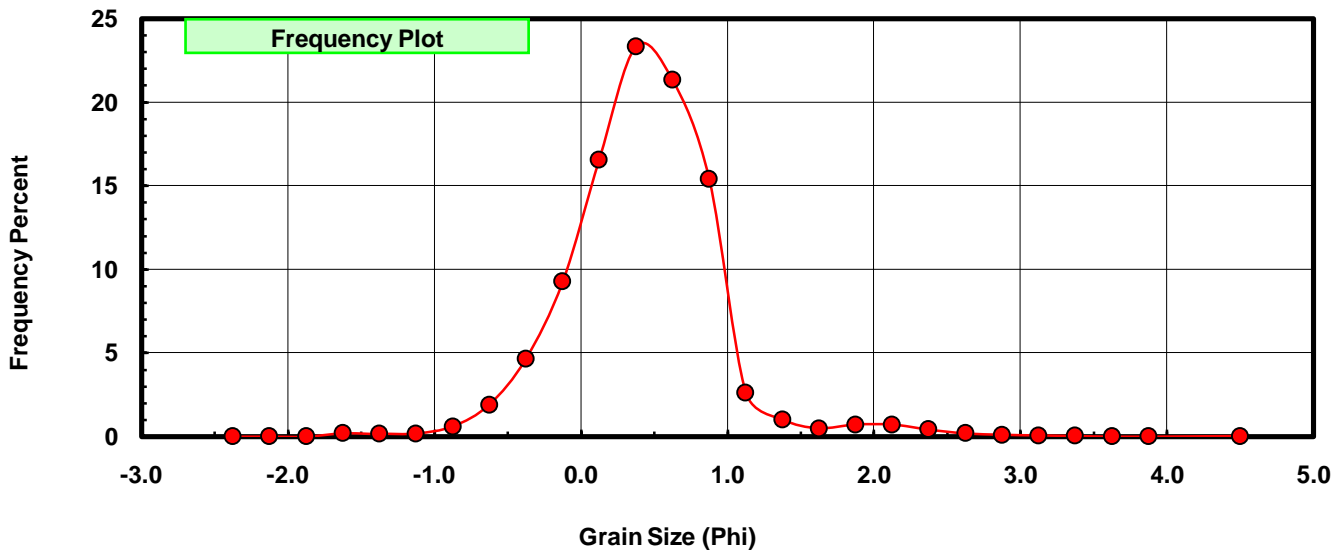
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.139	0.190	0.190
-1.25	-1.375	0.117	0.160	0.350
-1.00	-1.125	0.125	0.171	0.521
-0.75	-0.875	0.442	0.604	1.125
-0.50	-0.625	1.385	1.894	3.019
-0.25	-0.375	3.390	4.635	7.654
0.00	-0.125	6.782	9.272	16.926
0.25	0.125	12.115	16.563	33.489
0.50	0.375	17.059	23.323	56.812
0.75	0.625	15.613	21.346	78.158
1.00	0.875	11.256	15.389	93.547
1.25	1.125	1.923	2.629	96.176
1.50	1.375	0.752	1.028	97.204
1.75	1.625	0.361	0.494	97.698
2.00	1.875	0.524	0.716	98.414
2.25	2.125	0.520	0.711	99.125
2.50	2.375	0.308	0.421	99.546
2.75	2.625	0.148	0.202	99.748
3.00	2.875	0.073	0.100	99.848
3.25	3.125	0.046	0.063	99.911
3.50	3.375	0.028	0.038	99.949
3.75	3.625	0.011	0.015	99.964
4.00	3.875	0.011	0.015	99.979
5.00	4.50	0.015	0.021	100.000

Statistical Results			
Mean:	0.4267	phi	(0.744 mm)
Standard Dev:	0.5257	phi-units	(0.6946 mm)
Skewness:	0.7061	dimensionless	
Kurtosis:	7.3210	dimensionless	
5th Moment:	20.9541	dimensionless	
6th Moment:	147.5415	dimensionless	
RARD *	1.2321	dimensionless	
Median	0.3020	phi	(0.8111 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-30

