

Onshore Grab Sample

Sample: SA-20
Sample Taken By: D. Phelps
Sample Collected On: 12/15/09
Splits? N/A

County: Sarasota
Latitude: 27° 10' 36"
Longitude: 82° 29' 51.8"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 57.213 grams
Total Fines in Sample 0.220 grams
Total Percent Fines 0.38 %

Dry Sieving Summary

Total Sample Weight 57.176 grams
Total Digested Weight 7.763 grams
Total Carbonate Weight 49.413 grams
Total Silica % 13.58 %
Total Carbonate % 86.42 %
Carbonate/Silica Ratio 6.365

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: 57.176 grams

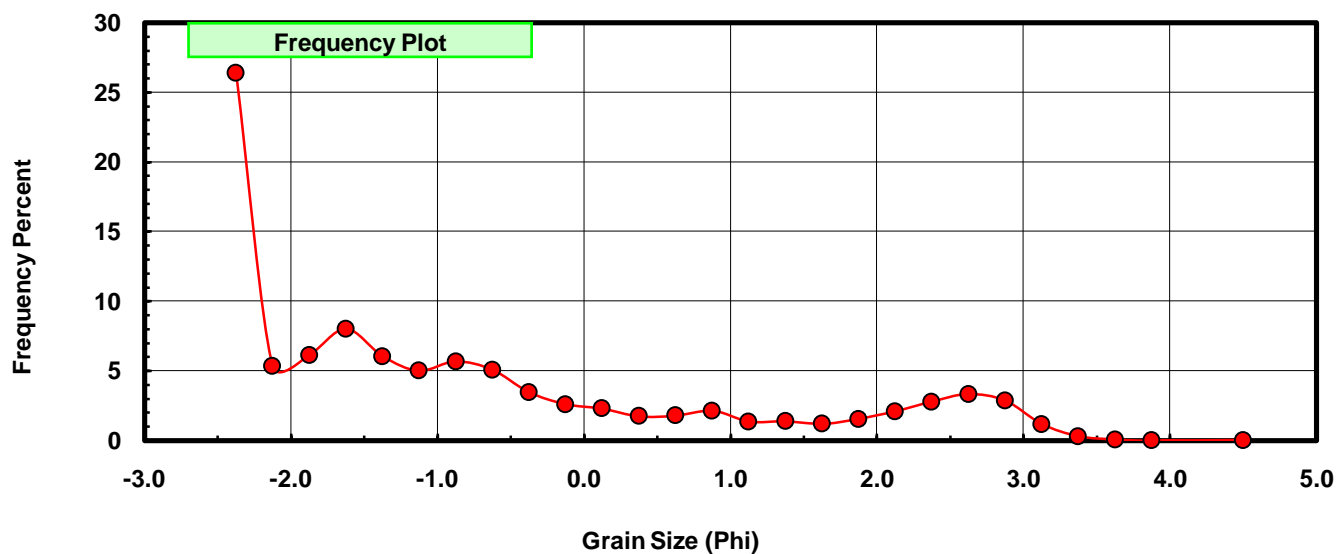
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	15.086	26.385	26.385
-2.00	-2.125	3.057	5.347	31.732
-1.75	-1.875	3.509	6.137	37.869
-1.50	-1.625	4.593	8.033	45.902
-1.25	-1.375	3.453	6.039	51.941
-1.00	-1.125	2.873	5.025	56.966
-0.75	-0.875	3.248	5.681	62.647
-0.50	-0.625	2.911	5.091	67.738
-0.25	-0.375	1.983	3.468	71.206
0.00	-0.125	1.493	2.611	73.818
0.25	0.125	1.313	2.296	76.114
0.50	0.375	0.998	1.745	77.860
0.75	0.625	1.023	1.789	79.649
1.00	0.875	1.231	2.153	81.802
1.25	1.125	0.782	1.368	83.170
1.50	1.375	0.798	1.396	84.565
1.75	1.625	0.684	1.196	85.762
2.00	1.875	0.889	1.555	87.316
2.25	2.125	1.194	2.088	89.405
2.50	2.375	1.593	2.786	92.191
2.75	2.625	1.907	3.335	95.526
3.00	2.875	1.649	2.884	98.410
3.25	3.125	0.675	1.181	99.591
3.50	3.375	0.173	0.303	99.893
3.75	3.625	0.039	0.068	99.962
4.00	3.875	0.010	0.017	99.979
5.00	4.50	0.012	0.021	100.000

Statistical Results			
Mean:	-0.7684	phi	(1.7034 mm)
Standard Dev:	1.7047	phi-units	(0.3068 mm)
Skewness:	0.9426	dimensionless	
Kurtosis:	2.6240	dimensionless	
5th Moment:	4.5261	dimensionless	
6th Moment:	9.9657	dimensionless	
RARD *	2.2184	dimensionless	
Median	-1.4554	phi	(2.7423 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)



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