

Onshore Grab Sample

Sample: ES-01-BB
Sample Taken By: D. Phelps
Sample Collected On: 3/29/11
Splits? N/A

County: Escambia
Latitude: 30° 16' 50.2" N
Longitude: 87° 31' 3.2" W
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	45.974 grams
Total Fines in Sample	0.008 grams
Total Percent Fines	0.02 %

Dry Sieving Summary

Total Sample Weight	46.151 grams
Total Digested Weight	45.903 grams
Total Carbonate Weight	0.248 grams
Total Silica %	99.46 %
Total Carbonate %	0.54 %
Carbonate/Silica Ratio	0.005

General Comments:

Not Enough Carbonate Material to do Post-Digestion Analysis

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

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Total Sample Mass: 46.151 grams

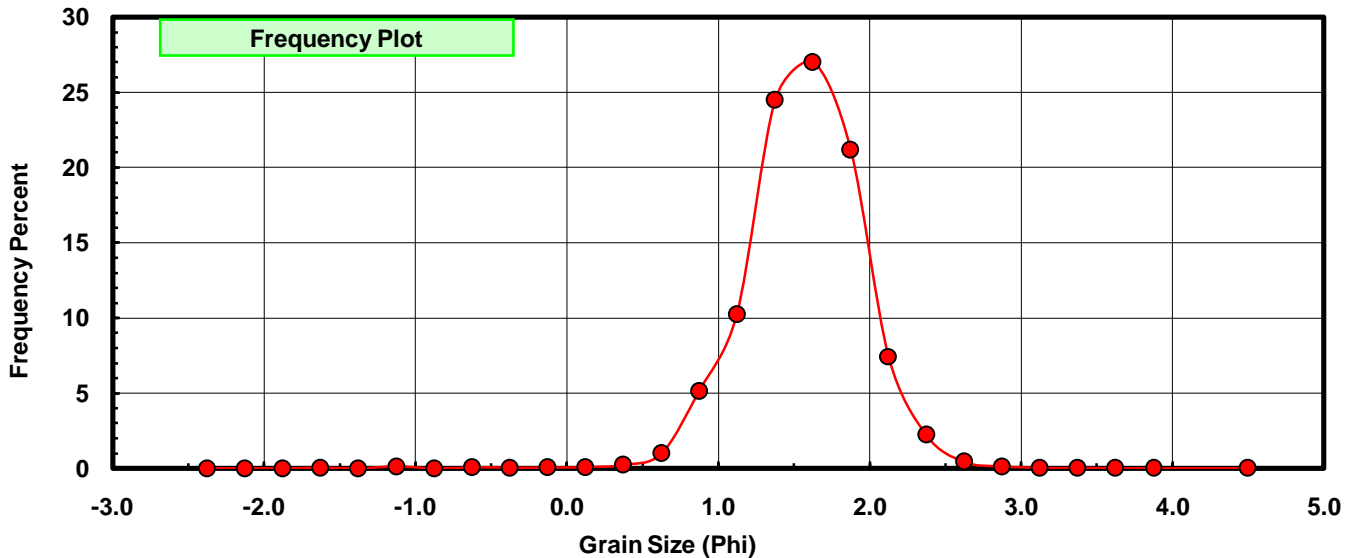
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.019	0.041	0.041
-1.25	-1.375	0.000	0.000	0.041
-1.00	-1.125	0.054	0.117	0.158
-0.75	-0.875	0.000	0.000	0.158
-0.50	-0.625	0.030	0.065	0.223
-0.25	-0.375	0.019	0.041	0.264
0.00	-0.125	0.022	0.048	0.312
0.25	0.125	0.032	0.069	0.381
0.50	0.375	0.107	0.232	0.613
0.75	0.625	0.453	0.982	1.595
1.00	0.875	2.370	5.135	6.730
1.25	1.125	4.726	10.240	16.970
1.50	1.375	11.310	24.507	41.477
1.75	1.625	12.468	27.016	68.493
2.00	1.875	9.772	21.174	89.667
2.25	2.125	3.437	7.447	97.114
2.50	2.375	1.031	2.234	99.348
2.75	2.625	0.204	0.442	99.790
3.00	2.875	0.059	0.128	99.918
3.25	3.125	0.016	0.035	99.952
3.50	3.375	0.011	0.024	99.976
3.75	3.625	0.003	0.007	99.983
4.00	3.875	0.004	0.009	99.991
5.00	4.50	0.004	0.009	100.000

Statistical Results			
Mean:	1.5670	phi	(0.3375 mm)
Standard Dev:	0.3978	phi-units	(0.759 mm)
Skewness:	-0.7245	dimensionless	
Kurtosis:	8.2859	dimensionless	
5th Moment:	-33.0651	dimensionless	
6th Moment:	289.0302	dimensionless	
RARD *	0.2538	dimensionless	
Median	1.4539	phi	(0.365 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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