

**Onshore Grab Sample**

**Sample:** ES-31-BB  
**Sample Taken By:** D. Phelps  
**Sample Collected On:** 3/30/11  
**Splits?** N/A

**County:** Escambia  
**Latitude:** 30° 20' 53.6" N  
**Longitude:** 87° 3' 3" W  
**Datum:** WGS 84  
**Surf. Elev:** N/A  
**Datum:** N/A

**Fine Data Summary**

Total Sample Weight	48.407 grams
Total Fines in Sample	0.036 grams
Total Percent Fines	0.07 %

**Dry Sieving Summary**

Total Sample Weight	48.753 grams
Total Digested Weight	47.533 grams
Total Carbonate Weight	1.220 grams
Total Silica %	97.50 %
Total Carbonate %	2.50 %
Carbonate/Silica Ratio	0.026

**General Comments:**

Not Enough Carbonate Material to do Post-Digestion Analysis

**Description**

Worked By: M. Ladle

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: ES-31-BB

Total Sample Mass: 48.753 grams

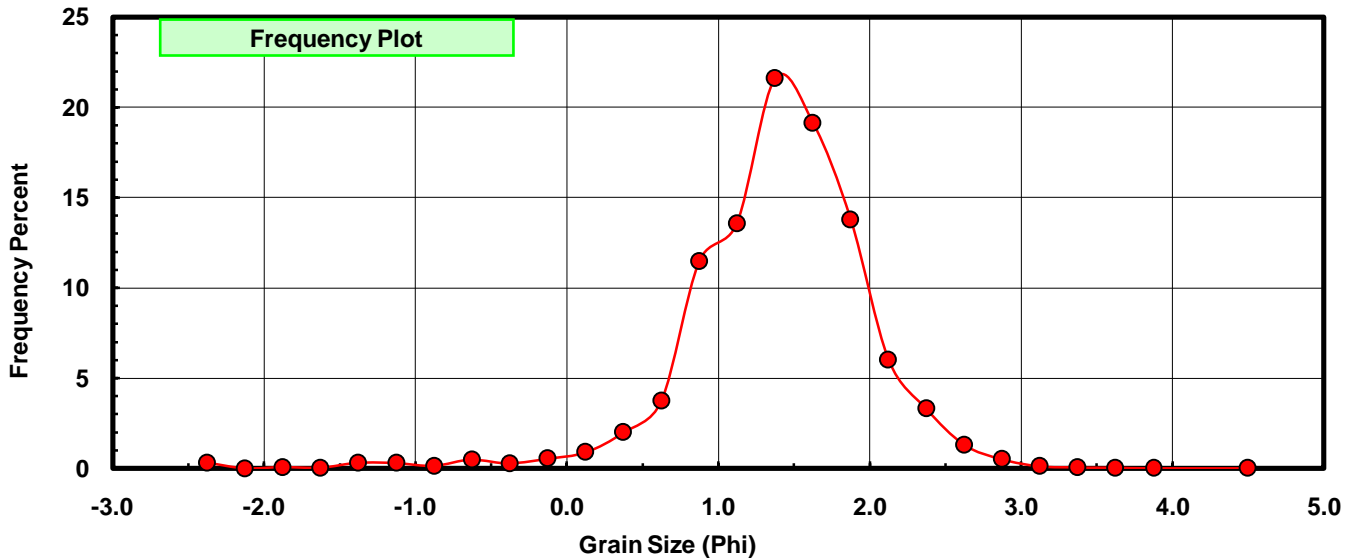
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.149	0.306	0.306
-2.00	-2.125	0.000	0.000	0.306
-1.75	-1.875	0.032	0.066	0.371
-1.50	-1.625	0.015	0.031	0.402
-1.25	-1.375	0.150	0.308	0.710
-1.00	-1.125	0.145	0.297	1.007
-0.75	-0.875	0.066	0.135	1.142
-0.50	-0.625	0.235	0.482	1.625
-0.25	-0.375	0.134	0.275	1.899
0.00	-0.125	0.265	0.544	2.443
0.25	0.125	0.436	0.894	3.337
0.50	0.375	0.972	1.994	5.331
0.75	0.625	1.823	3.739	9.070
1.00	0.875	5.591	11.468	20.538
1.25	1.125	6.618	13.575	34.113
1.50	1.375	10.537	21.613	55.726
1.75	1.625	9.334	19.145	74.871
2.00	1.875	6.717	13.778	88.649
2.25	2.125	2.931	6.012	94.661
2.50	2.375	1.612	3.306	97.967
2.75	2.625	0.638	1.309	99.276
3.00	2.875	0.250	0.513	99.789
3.25	3.125	0.053	0.109	99.897
3.50	3.375	0.025	0.051	99.949
3.75	3.625	0.013	0.027	99.975
4.00	3.875	0.006	0.012	99.988
5.00	4.50	0.006	0.012	100.000

Statistical Results			
Mean:	1.3917	phi	(0.3811 mm)
Standard Dev:	0.6287	phi-units	(0.6468 mm)
Skewness:	-1.3904	dimensionless	
Kurtosis:	9.1776	dimensionless	
5th Moment:	-37.6274	dimensionless	
6th Moment:	214.9084	dimensionless	
RARD *	0.4517	dimensionless	
Median	1.3088	phi	(0.4037 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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