

**Onshore Grab Sample**

**Sample:** BY-03-BB  
**Sample Taken By:** D. Phelps  
**Sample Collected On:** 2/15/11  
**Splits?** N/A

**County:** Bay  
**Latitude:** 30° 15' 8.4" N  
**Longitude:** 85° 57' 15.9" W  
**Datum:** WGS 84  
**Surf. Elev:** N/A  
**Datum:** N/A

**Fine Data Summary**

Total Sample Weight	43.988 grams
Total Fines in Sample	0.022 grams
Total Percent Fines	0.05 %

**Dry Sieving Summary**

Total Sample Weight	43.824 grams
Total Digested Weight	41.945 grams
Total Carbonate Weight	1.879 grams
Total Silica %	95.71 %
Total Carbonate %	4.29 %
Carbonate/Silica Ratio	0.045

**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: BY-03-BB

Total Sample Mass: 43.824 grams

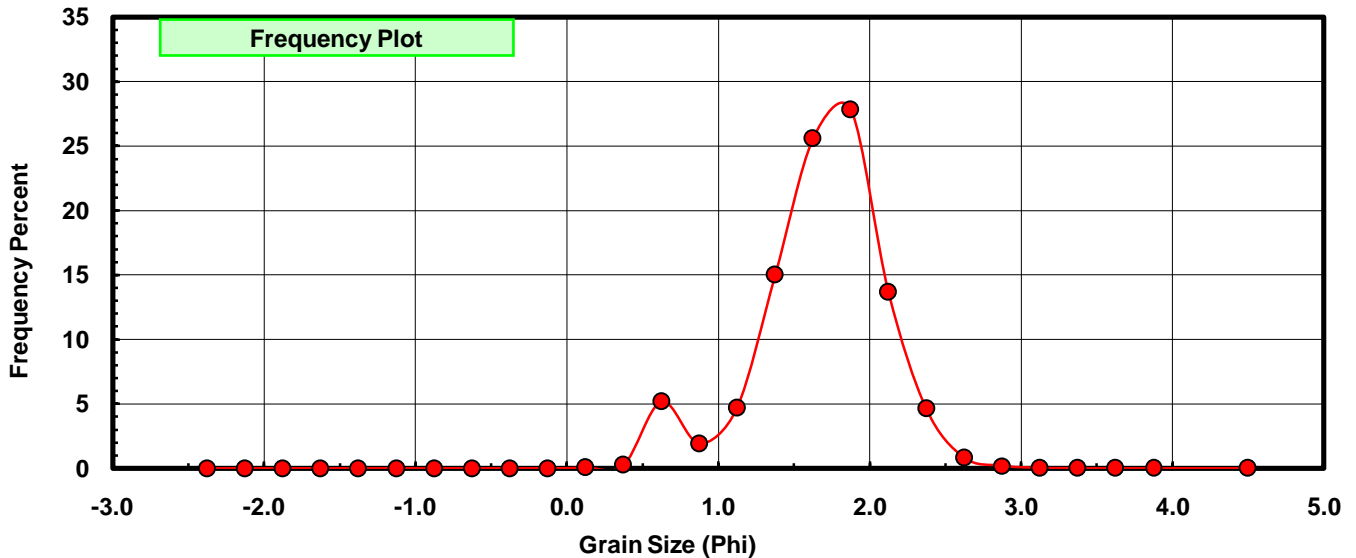
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	0.000
0.00	-0.125	0.000	0.000	0.000
0.25	0.125	0.027	0.062	0.062
0.50	0.375	0.113	0.258	0.319
0.75	0.625	2.269	5.178	5.497
1.00	0.875	0.847	1.933	7.430
1.25	1.125	2.052	4.682	12.112
1.50	1.375	6.575	15.003	27.115
1.75	1.625	11.214	25.589	52.704
2.00	1.875	12.204	27.848	80.552
2.25	2.125	5.990	13.668	94.220
2.50	2.375	2.034	4.641	98.861
2.75	2.625	0.363	0.828	99.690
3.00	2.875	0.088	0.201	99.890
3.25	3.125	0.019	0.043	99.934
3.50	3.375	0.009	0.021	99.954
3.75	3.625	0.010	0.023	99.977
4.00	3.875	0.005	0.011	99.989
5.00	4.50	0.005	0.011	100.000

Statistical Results			
Mean:	1.6793	phi	(0.3122 mm)
Standard Dev:	0.4284	phi-units	(0.7431 mm)
Skewness:	-0.5594	dimensionless	
Kurtosis:	4.0397	dimensionless	
5th Moment:	-2.3191	dimensionless	
6th Moment:	34.5669	dimensionless	
RARD *	0.2551	dimensionless	
Median	1.5986	phi	(0.3302 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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