

Onshore Grab Sample

Sample: BY-21-BB
Sample Taken By: D. Phelps
Sample Collected On: 1/31/11
Splits? N/A

County: Bay
Latitude: 30° 7' 3.4" N
Longitude: 85° 43' 40.2" W
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	45.378 grams
Total Fines in Sample	0.070 grams
Total Percent Fines	0.15 %

Dry Sieving Summary

Total Sample Weight	45.569 grams
Total Digested Weight	45.500 grams
Total Carbonate Weight	0.069 grams
Total Silica %	99.85 %
Total Carbonate %	0.15 %
Carbonate/Silica Ratio	0.002

General Comments:

Not Enough Carbonate Material 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: 45.569 grams

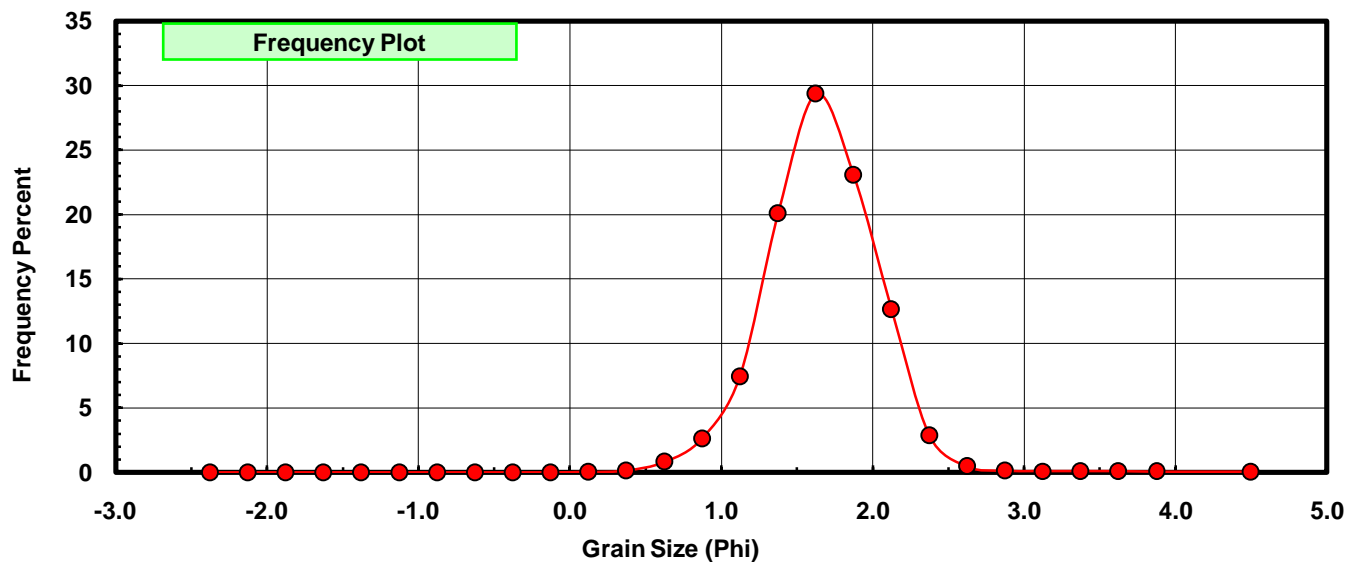
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-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	0.013	0.029	0.029
0.50	0.375	0.064	0.140	0.169
0.75	0.625	0.363	0.797	0.966
1.00	0.875	1.190	2.611	3.577
1.25	1.125	3.392	7.444	11.021
1.50	1.375	9.151	20.082	31.102
1.75	1.625	13.373	29.347	60.449
2.00	1.875	10.504	23.051	83.500
2.25	2.125	5.768	12.658	96.157
2.50	2.375	1.303	2.859	99.017
2.75	2.625	0.212	0.465	99.482
3.00	2.875	0.060	0.132	99.614
3.25	3.125	0.046	0.101	99.715
3.50	3.375	0.038	0.083	99.798
3.75	3.625	0.042	0.092	99.890
4.00	3.875	0.029	0.064	99.954
5.00	4.50	0.021	0.046	100.000

Statistical Results			
Mean:	1.6641	phi	(0.3155 mm)
Standard Dev:	0.3777	phi-units	(0.7697 mm)
Skewness:	0.3912	dimensionless	
Kurtosis:	6.1926	dimensionless	
5th Moment:	19.9690	dimensionless	
6th Moment:	154.4543	dimensionless	
RARD *	0.2270	dimensionless	
Median	1.5360	phi	(0.3448 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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