

Onshore Grab Sample

Sample: BY-25-BB
Sample Taken By: D. Phelps
Sample Collected On: 1/31/11
Splits? N/A

County: Bay
Latitude: 30° 5' 19.1" N
Longitude: 85° 40' 35.6" W
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 54.497 grams
Total Fines in Sample 0.022 grams
Total Percent Fines 0.04 %

Dry Sieving Summary

Total Sample Weight 54.472 grams
Total Digested Weight 54.294 grams
Total Carbonate Weight 0.178 grams
Total Silica % 99.67 %
Total Carbonate % 0.33 %
Carbonate/Silica Ratio 0.003

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: 54.472 grams

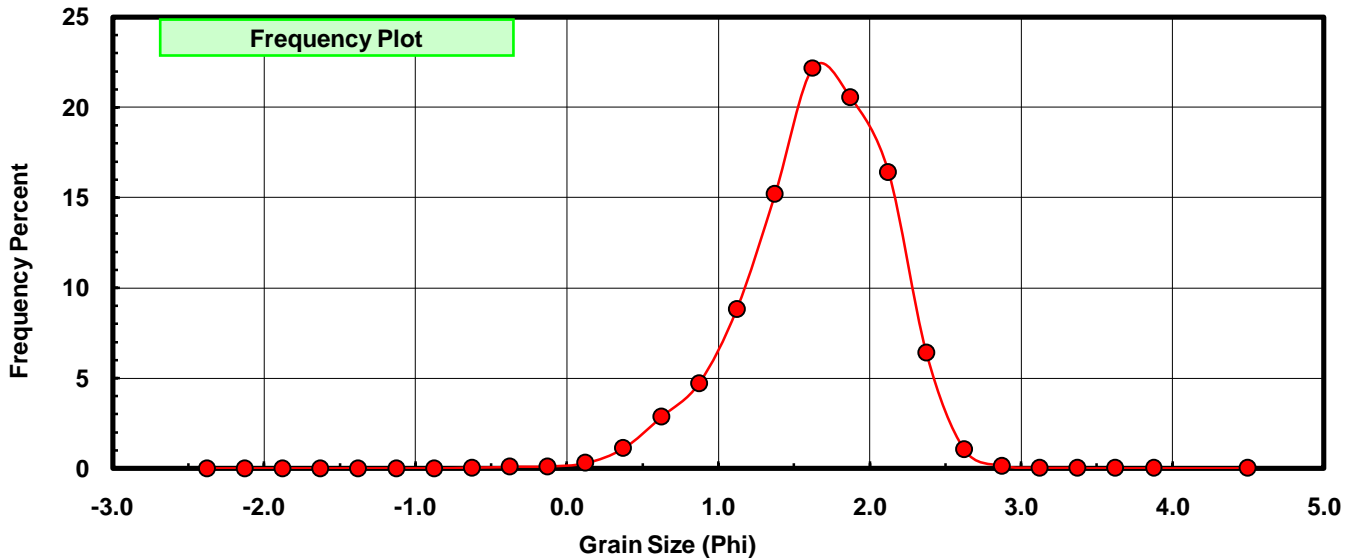
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.013	0.024	0.024
-0.25	-0.375	0.046	0.084	0.108
0.00	-0.125	0.057	0.105	0.213
0.25	0.125	0.157	0.288	0.501
0.50	0.375	0.608	1.116	1.617
0.75	0.625	1.551	2.847	4.465
1.00	0.875	2.561	4.701	9.166
1.25	1.125	4.808	8.827	17.993
1.50	1.375	8.281	15.202	33.195
1.75	1.625	12.091	22.197	55.392
2.00	1.875	11.185	20.533	75.925
2.25	2.125	8.939	16.410	92.336
2.50	2.375	3.489	6.405	98.741
2.75	2.625	0.574	1.054	99.794
3.00	2.875	0.072	0.132	99.927
3.25	3.125	0.014	0.026	99.952
3.50	3.375	0.009	0.017	99.969
3.75	3.625	0.007	0.013	99.982
4.00	3.875	0.005	0.009	99.991
5.00	4.50	0.005	0.009	100.000

Statistical Results			
Mean:	1.6518	phi	(0.3182 mm)
Standard Dev:	0.4764	phi-units	(0.7188 mm)
Skewness:	-0.5313	dimensionless	
Kurtosis:	3.6477	dimensionless	
5th Moment:	-4.7161	dimensionless	
6th Moment:	30.8689	dimensionless	
RARD *	0.2884	dimensionless	
Median	1.5643	phi	(0.3381 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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