

Onshore Grab Sample

Sample: BY-27-BB
Sample Taken By: D. Phelps
Sample Collected On: 1/31/11
Splits? N/A

County: Bay
Latitude: 30° 4' 36.5" N
Longitude: 85° 38' 55.7" W
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 52.111 grams
Total Fines in Sample 0.014 grams
Total Percent Fines 0.03 %

Dry Sieving Summary

Total Sample Weight 51.882 grams
Total Digested Weight 51.687 grams
Total Carbonate Weight 0.195 grams
Total Silica % 99.62 %
Total Carbonate % 0.38 %
Carbonate/Silica Ratio 0.004

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: 51.882 grams

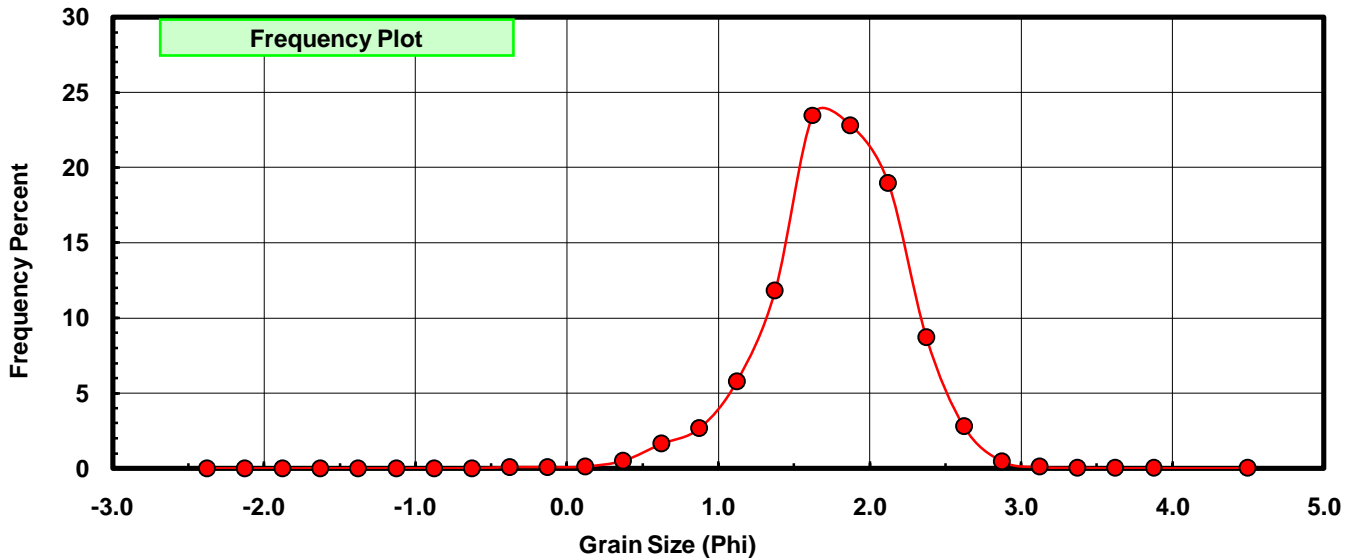
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.044	0.085	0.085
0.00	-0.125	0.037	0.071	0.156
0.25	0.125	0.059	0.114	0.270
0.50	0.375	0.263	0.507	0.777
0.75	0.625	0.850	1.638	2.415
1.00	0.875	1.378	2.656	5.071
1.25	1.125	3.002	5.786	10.857
1.50	1.375	6.127	11.809	22.667
1.75	1.625	12.186	23.488	46.155
2.00	1.875	11.829	22.800	68.955
2.25	2.125	9.825	18.937	87.892
2.50	2.375	4.518	8.708	96.600
2.75	2.625	1.437	2.770	99.370
3.00	2.875	0.243	0.468	99.838
3.25	3.125	0.047	0.091	99.929
3.50	3.375	0.018	0.035	99.963
3.75	3.625	0.007	0.013	99.977
4.00	3.875	0.006	0.012	99.988
5.00	4.50	0.006	0.012	100.000

Statistical Results			
Mean:	1.7726	phi	(0.2927 mm)
Standard Dev:	0.4496	phi-units	(0.7323 mm)
Skewness:	-0.4617	dimensionless	
Kurtosis:	4.1298	dimensionless	
5th Moment:	-5.1135	dimensionless	
6th Moment:	40.9006	dimensionless	
RARD *	0.2536	dimensionless	
Median	1.6672	phi	(0.3149 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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