

Onshore Grab Sample

Sample: BY-33-BB
Sample Taken By: D. Phelps
Sample Collected On: 1/31/11
Splits? N/A

County: Bay
Latitude: 30° 1' 30.1" N
Longitude: 85° 34' 0.6" W
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	42.106 grams
Total Fines in Sample	0.004 grams
Total Percent Fines	0.01 %

Dry Sieving Summary

Total Sample Weight	42.135 grams
Total Digested Weight	42.069 grams
Total Carbonate Weight	0.066 grams
Total Silica %	99.84 %
Total Carbonate %	0.16 %
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

Sample: BY-33-BB

Total Sample Mass: 42.135 grams

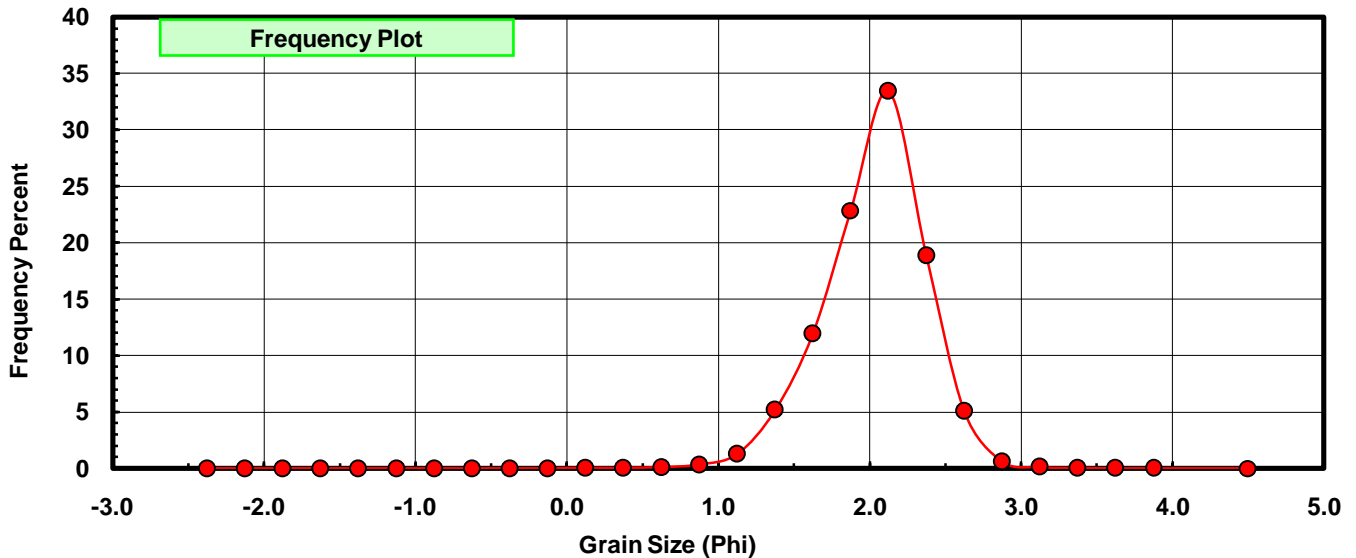
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-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	0.015	0.036	0.036
0.50	0.375	0.017	0.040	0.076
0.75	0.625	0.043	0.102	0.178
1.00	0.875	0.138	0.328	0.506
1.25	1.125	0.535	1.270	1.775
1.50	1.375	2.186	5.188	6.963
1.75	1.625	5.044	11.971	18.934
2.00	1.875	9.634	22.865	41.799
2.25	2.125	14.083	33.424	75.222
2.50	2.375	7.952	18.873	94.095
2.75	2.625	2.148	5.098	99.193
3.00	2.875	0.263	0.624	99.817
3.25	3.125	0.050	0.119	99.936
3.50	3.375	0.016	0.038	99.974
3.75	3.625	0.007	0.017	99.991
4.00	3.875	0.003	0.007	99.998
5.00	4.50	0.001	0.002	100.000

Statistical Results			
Mean:	2.0288	phi	(0.2451 mm)
Standard Dev:	0.3469	phi-units	(0.7863 mm)
Skewness:	-0.4424	dimensionless	
Kurtosis:	4.0225	dimensionless	
5th Moment:	-5.0634	dimensionless	
6th Moment:	42.5880	dimensionless	
RARD *	0.1710	dimensionless	
Median	1.9363	phi	(0.2613 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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