

Onshore Grab Sample

Sample: BY-07-BB
Sample Taken By: D. Phelps
Sample Collected On: 2/15/11
Splits? N/A

County: Bay
Latitude: 30° 13' 35.8" N
Longitude: 85° 53' 56.2" W
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 60.301 grams
Total Fines in Sample 0.033 grams
Total Percent Fines 0.05 %

Dry Sieving Summary

Total Sample Weight 59.989 grams
Total Digested Weight 58.747 grams
Total Carbonate Weight 1.242 grams
Total Silica % 97.93 %
Total Carbonate % 2.07 %
Carbonate/Silica Ratio 0.021

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: 59.989 grams

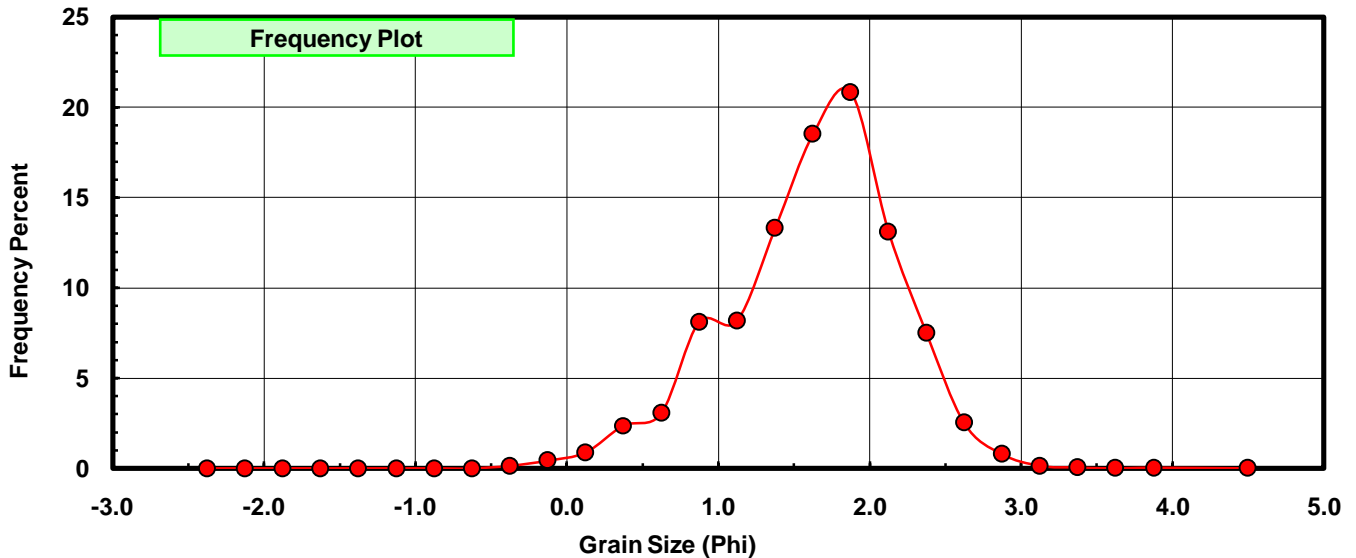
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.079	0.132	0.132
0.00	-0.125	0.261	0.435	0.567
0.25	0.125	0.529	0.882	1.449
0.50	0.375	1.426	2.377	3.826
0.75	0.625	1.832	3.054	6.880
1.00	0.875	4.866	8.111	14.991
1.25	1.125	4.899	8.166	23.158
1.50	1.375	7.978	13.299	36.457
1.75	1.625	11.107	18.515	54.972
2.00	1.875	12.506	20.847	75.819
2.25	2.125	7.861	13.104	88.923
2.50	2.375	4.506	7.511	96.434
2.75	2.625	1.519	2.532	98.966
3.00	2.875	0.478	0.797	99.763
3.25	3.125	0.079	0.132	99.895
3.50	3.375	0.031	0.052	99.947
3.75	3.625	0.009	0.015	99.962
4.00	3.875	0.017	0.028	99.990
5.00	4.50	0.006	0.010	100.000

Statistical Results			
Mean:	1.6197	phi	(0.3254 mm)
Standard Dev:	0.5648	phi-units	(0.6761 mm)
Skewness:	-0.4284	dimensionless	
Kurtosis:	3.3011	dimensionless	
5th Moment:	-2.9332	dimensionless	
6th Moment:	20.2149	dimensionless	
RARD *	0.3487	dimensionless	
Median	1.5579	phi	(0.3397 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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