

Quality Control Statistical Summary

Onshore Grab Sample: BY-25-BB

Sample Taken By: D. Phelps

Latitude: 30° 5' 19.1" N

Sample Taken On: 01/31/11

Longitude: 85° 40' 35.6" W

County: Bay

Datum: WGS 84

Statistical Results: Pre-CaCO3						
	Duplicate			Original		
Mean:	1.5209	phi	(0.3485 mm)	1.6518	phi	(0.3182 mm)
Standard Dev:	0.5000	phi-units	(0.7071 mm)	0.4764	phi-units	(0.7188 mm)
Skewness:	-0.1403	dimensionless		-0.5313	dimensionless	
Kurtosis:	2.7631	dimensionless		3.6477	dimensionless	
5th Moment:	-0.5883	dimensionless		-4.7161	dimensionless	
6th Moment:	15.4483	dimensionless		30.8689	dimensionless	
RARD*:	0.3288	dimensionless		0.2884	dimensionless	
Median:	1.4185	phi	(0.3741 mm)	1.5643	phi	(0.3381 mm)

Statistical Results: CaCO3	
Not Enough Carbonate Material to do Post-Digestion Analysis	

Statistical Results: Post-CaCO3	
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Additional Data	
Total Fines	
Original:	0.03 %
Duplicate:	0.02 %
Total Carbonates	
Original:	0.33 %
Duplicate:	0.28 %

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	
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)

Pre-Digestion Grain Size Distribution

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Total Duplicate Sample Mass: 56.814 grams

Total Original Sample Mass: 54.472 grams

Sieve Size (phi)	Sieve Midpt (phi)	Weight of Dupl (grams)	Freq Weight %	Cumulative Weight %	Weight of Original (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000	0.013	0.024	0.024
-0.25	-0.375	0.000	0.000	0.000	0.046	0.084	0.108
0.00	-0.125	0.104	0.183	0.183	0.057	0.105	0.213
0.25	0.125	0.161	0.283	0.466	0.157	0.288	0.501
0.50	0.375	0.816	1.436	1.903	0.608	1.116	1.617
0.75	0.625	2.050	3.608	5.511	1.551	2.847	4.465
1.00	0.875	6.407	11.277	16.788	2.561	4.701	9.166
1.25	1.125	7.108	12.511	29.299	4.808	8.827	17.993
1.50	1.375	9.943	17.501	46.800	8.281	15.202	33.195
1.75	1.625	10.449	18.392	65.192	12.091	22.197	55.392
2.00	1.875	10.300	18.129	83.321	11.185	20.533	75.925
2.25	2.125	5.945	10.464	93.785	8.939	16.410	92.336
2.50	2.375	2.797	4.923	98.708	3.489	6.405	98.741
2.75	2.625	0.624	1.098	99.806	0.574	1.054	99.794
3.00	2.875	0.076	0.134	99.940	0.072	0.132	99.927
3.25	3.125	0.016	0.028	99.968	0.014	0.026	99.952
3.50	3.375	0.010	0.018	99.986	0.009	0.017	99.969
3.75	3.625	0.004	0.007	99.993	0.007	0.013	99.982
4.00	3.875	0.000	0.000	99.993	0.005	0.009	99.991
5.00	4.500	0.004	0.007	100.000	0.005	0.009	100.000



