

Quality Control Statistical Summary

Onshore Grab Sample: BY-35-BB

Sample Taken By: D. Phelps

Latitude: 30° 0' 12.6" N

Sample Taken On: 01/31/11

Longitude: 85° 32' 31.1" W

County: Bay

Datum: WGS 84

Statistical Results: Pre-CaCO3						
	Duplicate			Original		
Mean:	2.0211	phi	(0.2464 mm)	2.0030	phi	(0.2495 mm)
Standard Dev:	0.3720	phi-units	(0.7727 mm)	0.3620	phi-units	(0.7781 mm)
Skewness:	-0.8598	dimensionless		-0.4722	dimensionless	
Kurtosis:	7.6836	dimensionless		4.3264	dimensionless	
5th Moment:	-34.7867	dimensionless		-5.7520	dimensionless	
6th Moment:	273.5175	dimensionless		43.1574	dimensionless	
RARD*:	0.1840	dimensionless		0.1807	dimensionless	
Median:	1.9116	phi	(0.2658 mm)	1.9106	phi	(0.266 mm)

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

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

Additional Data	
Total Fines	
Original:	0.01 %
Duplicate:	0.01 %
Total Carbonates	
Original:	0.13 %
Duplicate:	0.24 %

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: 52.362 grams

Total Original Sample Mass: 61.291 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	0.053	0.101	0.101	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.101	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	0.101	0.000	0.000	0.000
0.00	-0.125	0.013	0.025	0.126	0.000	0.000	0.000
0.25	0.125	0.009	0.017	0.143	0.020	0.033	0.033
0.50	0.375	0.032	0.061	0.204	0.053	0.086	0.119
0.75	0.625	0.081	0.155	0.359	0.142	0.232	0.351
1.00	0.875	0.399	0.762	1.121	0.422	0.689	1.039
1.25	1.125	0.661	1.262	2.383	0.976	1.592	2.632
1.50	1.375	2.255	4.307	6.690	3.352	5.469	8.101
1.75	1.625	6.271	11.976	18.666	7.760	12.661	20.762
2.00	1.875	14.273	27.258	45.925	15.134	24.692	45.454
2.25	2.125	14.569	27.824	73.748	19.555	31.905	77.359
2.50	2.375	10.344	19.755	93.503	10.506	17.141	94.500
2.75	2.625	2.779	5.307	98.810	2.689	4.387	98.887
3.00	2.875	0.480	0.917	99.727	0.482	0.786	99.674
3.25	3.125	0.092	0.176	99.903	0.144	0.235	99.909
3.50	3.375	0.041	0.078	99.981	0.041	0.067	99.976
3.75	3.625	0.007	0.013	99.994	0.013	0.021	99.997
4.00	3.875	0.000	0.000	99.994	0.001	0.002	99.998
5.00	4.500	0.003	0.006	100.000	0.001	0.002	100.000



