

# Quality Control Statistical Summary

Onshore Grab Sample: FK-41-BB

Sample Taken By: D. Phelps

Latitude: 29° 45' 46.5" N

Sample Taken On: 10/11/10

Longitude: 84° 41' 36.1" W

County: Franklin

Datum: WGS 84

Statistical Results: Pre-CaCO3		
	Duplicate	Original
Mean:	1.8288 phi (0.2815 mm)	1.7085 phi (0.306 mm)
Standard Dev:	0.4355 phi-units (0.7394 mm)	0.5694 phi-units (0.6739 mm)
Skewness:	-0.9933 dimensionless	-1.9349 dimensionless
Kurtosis:	7.8599 dimensionless	9.6080 dimensionless
5th Moment:	-33.3182 dimensionless	-40.0689 dimensionless
6th Moment:	217.3563 dimensionless	197.1894 dimensionless
RARD*:	0.2381 dimensionless	0.3333 dimensionless
Median:	1.7178 phi (0.304 mm)	1.6488 phi (0.3189 mm)

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

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Additional Data	
<b>Total Fines</b>	
Original:	0.01 %
Duplicate:	0.02 %
<b>Total Carbonates</b>	
Original:	1.35 %
Duplicate:	0.9 %

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

Onshore Grab Sample: FK-41-BB

Total Duplicate Sample Mass: 54.032 grams

Total Original Sample Mass: 76.148 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	0.079	0.104	0.104
-1.50	-1.625	0.000	0.000	0.000	0.035	0.046	0.150
-1.25	-1.375	0.015	0.028	0.028	0.020	0.026	0.176
-1.00	-1.125	0.039	0.072	0.100	0.155	0.204	0.380
-0.75	-0.875	0.033	0.061	0.161	0.122	0.160	0.540
-0.50	-0.625	0.051	0.094	0.255	0.378	0.496	1.036
Not Enough	-0.375	0.000	0.000	0.255	0.876	1.150	2.187
0.00	-0.125	0.000	0.000	0.255	0.034	0.045	2.231
0.25	0.125	0.181	0.335	0.590	0.612	0.804	3.035
0.50	0.375	0.515	0.953	1.544	1.573	2.066	5.101
Not Enough	0.625	0.004	0.007	1.551	0.033	0.043	5.144
1.00	0.875	0.043	0.080	1.631	0.037	0.049	5.193
1.25	1.125	2.477	4.584	6.215	4.993	6.557	11.749
1.50	1.375	6.814	12.611	18.826	9.286	12.195	23.944
1.75	1.625	11.351	21.008	39.834	18.067	23.726	47.670
2.00	1.875	14.794	27.380	67.214	18.654	24.497	72.167
2.25	2.125	9.549	17.673	84.887	12.816	16.830	88.998
2.50	2.375	5.919	10.955	95.841	6.227	8.177	97.175
2.75	2.625	1.938	3.587	99.428	1.927	2.531	99.706
3.00	2.875	0.275	0.509	99.937	0.164	0.215	99.921
3.25	3.125	0.019	0.035	99.972	0.051	0.067	99.988
3.50	3.375	0.008	0.015	99.987	0.006	0.008	99.996
3.75	3.625	0.003	0.006	99.993	0.001	0.001	99.997
4.00	3.875	0.000	0.000	99.993	0.001	0.001	99.999
5.00	4.500	0.004	0.007	100.000	0.001	0.001	100.000



