Onshore Grab Sample

Sample: WL-02-BB
Sample Taken By: D. Phelps
Sample Collected On: 2/16/11
Splits? N/A

County: Walton
Latitude: 30° 22' 36.7" N
Longitude: 86° 22' 4.9" W
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	53.564	grams
Total Fines in Sample	0.116	grams
Total Percent Fines	0.22	%

Dry Sieving Summary

Total Sample Weight	53.266	grams
Total Digested Weight	52.997	grams
Total Carbonate Weight	0.269	grams
Total Silica %	99.49	%
Total Carbonate %	0.51	%
Carbonate/Silica Ratio	0.005	

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: WL-02-BB

Total Sample Mass: 53.266 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	0.223	0.419	0.419
-0.50	-0.625	0.404	0.758	1.177
-0.25	-0.375	0.387	0.727	1.904
0.00	-0.125	0.924	1.735	3.638
0.25	0.125	1.065	1.999	5.638
0.50	0.375	1.932	3.627	9.265
0.75	0.625	2.353	4.417	13.682
1.00	0.875	4.629	8.690	22.373
1.25	1.125	4.996	9.379	31.752
1.50	1.375	8.119	15.242	46.994
1.75	1.625	9.143	17.165	64.159
2.00	1.875	8.194	15.383	79.542
2.25	2.125	4.677	8.780	88.323
2.50	2.375	2.962	5.561	93.884
2.75	2.625	1.749	3.284	97.167
3.00	2.875	1.061	1.992	99.159
3.25	3.125	0.246	0.462	99.621
3.50	3.375	0.114	0.214	99.835
3.75	3.625	0.046	0.086	99.921
4.00	3.875	0.023	0.043	99.964
5.00	4.50	0.019	0.036	100.000

Statistical Results			
Mean:	1.4791	phi	(0.3587 mm)
Standard Dev:	0.7177	phi-units	(0.608 mm)
Skewness:	-0.4296	dimensionless	
Kurtosis:	3.6352	dimensionless	
5th Moment:	-3.4870	dimensionless	
6th Moment:	22.7919	dimensionless	
RARD *	0.4853	dimensionless	
Median	1.4188	phi	(0.374 mm)

* RARD = reciprocal absolute relative dispersion (see below)

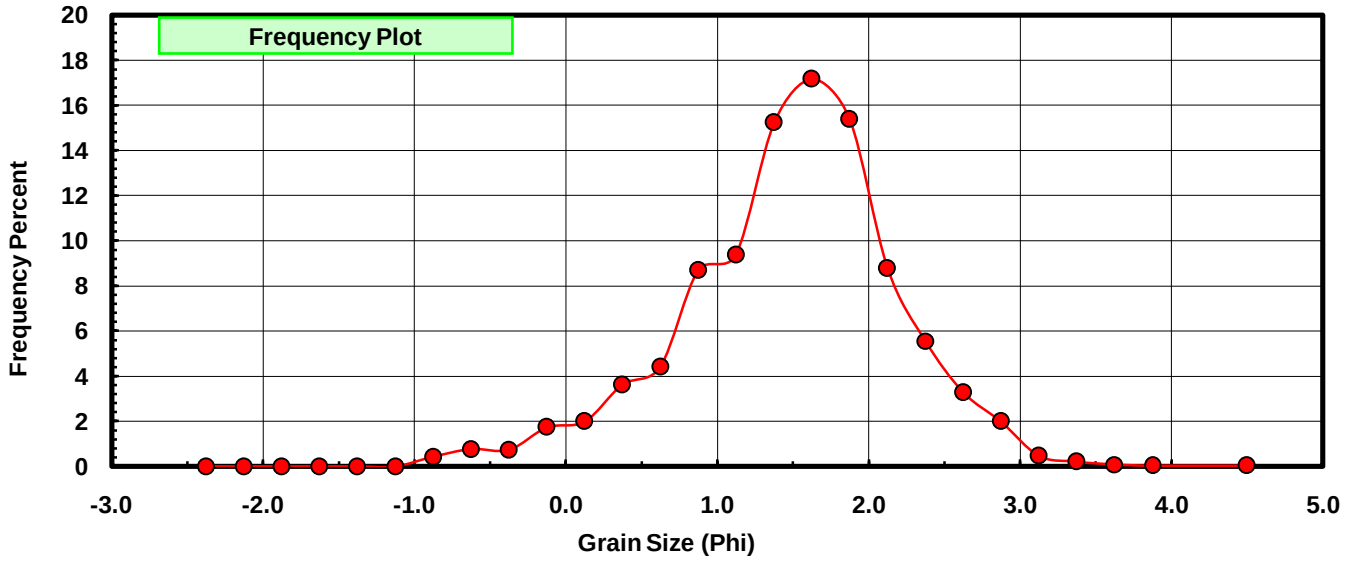
Statistical Explanation

Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

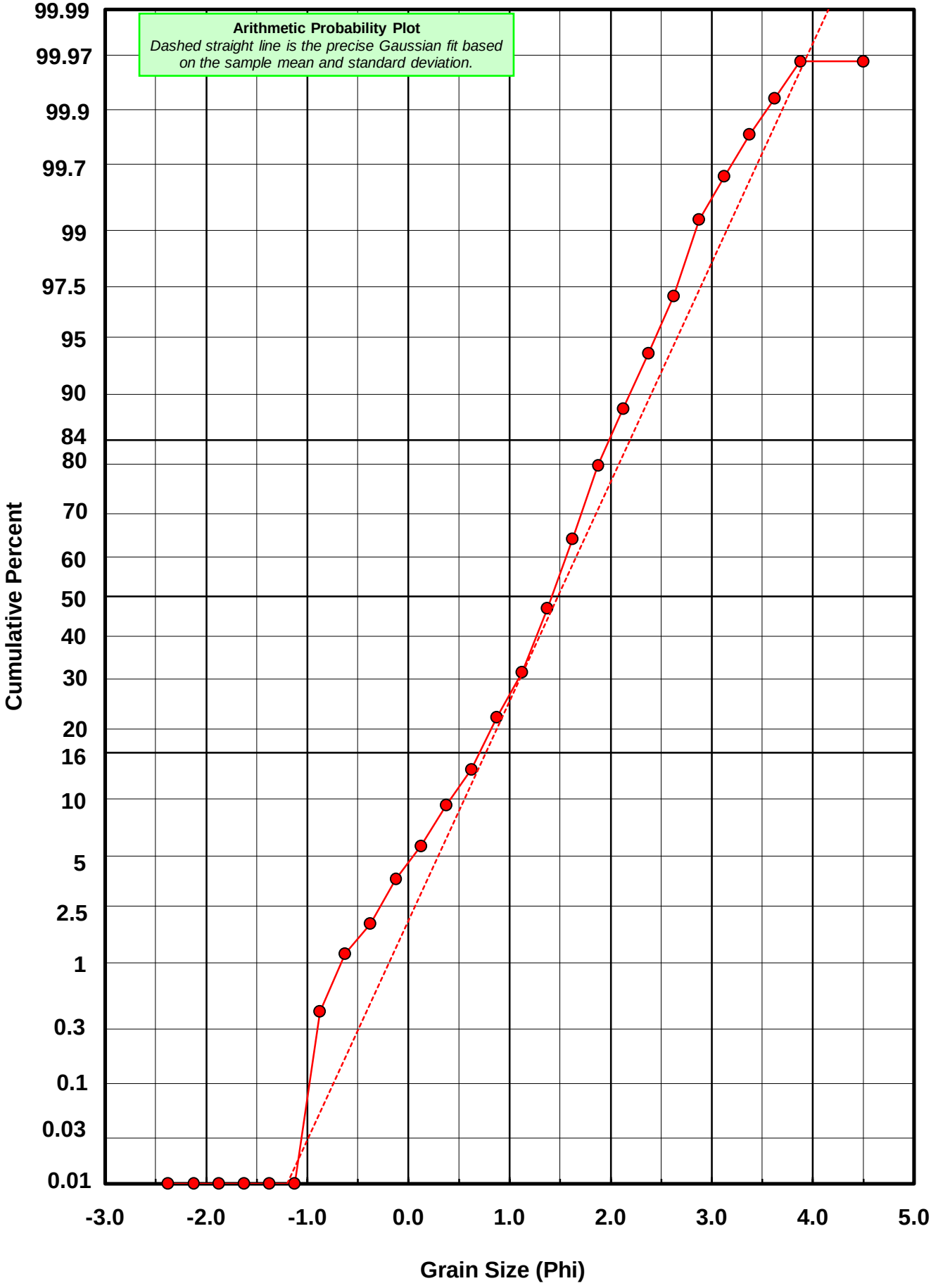
For Further Explanation, See Basillle et al. 2002

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)



WL-02-BB


Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)