Onshore Grab Sample

Sample: BY-44-BB
Sample Taken By: D. Phelps
Sample Collected On: 1/11/11
Splits? N/A

County: Bay
Latitude: 29° 56' 53.4" N
Longitude: 85° 25' 22" W
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	60.719	grams
Total Fines in Sample	0.039	grams
Total Percent Fines	0.06	%

Dry Sieving Summary

Total Sample Weight	60.772	grams
Total Digested Weight	60.192	grams
Total Carbonate Weight	0.580	grams
Total Silica %	99.05	%
Total Carbonate %	0.95	%
Carbonate/Silica Ratio	0.010	

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: BY-44-BB

Total Sample Mass: 60.772 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	0.062	0.102	0.102
-1.25	-1.375	0.000	0.000	0.102
-1.00	-1.125	0.010	0.016	0.118
-0.75	-0.875	0.019	0.031	0.150
-0.50	-0.625	0.000	0.000	0.150
-0.25	-0.375	0.028	0.046	0.196
0.00	-0.125	0.031	0.051	0.247
0.25	0.125	0.066	0.109	0.355
0.50	0.375	0.231	0.380	0.736
0.75	0.625	0.764	1.257	1.993
1.00	0.875	1.655	2.723	4.716
1.25	1.125	3.120	5.134	9.850
1.50	1.375	6.965	11.461	21.311
1.75	1.625	10.654	17.531	38.842
2.00	1.875	13.037	21.452	60.294
2.25	2.125	14.229	23.414	83.708
2.50	2.375	7.560	12.440	96.148
2.75	2.625	2.037	3.352	99.500
3.00	2.875	0.250	0.411	99.911
3.25	3.125	0.035	0.058	99.969
3.50	3.375	0.012	0.020	99.988
3.75	3.625	0.004	0.007	99.995
4.00	3.875	0.002	0.003	99.998
5.00	4.50	0.001	0.002	100.000

Statistical Results			
Mean:	1.8291	phi	(0.2814 mm)
Standard Dev:	0.4690	phi-units	(0.7225 mm)
Skewness:	-1.0161	dimensionless	
Kurtosis:	6.7619	dimensionless	
5th Moment:	-31.1943	dimensionless	
6th Moment:	210.8812	dimensionless	
RARD *	0.2564	dimensionless	
Median	1.7550	phi	(0.2963 mm)

* RARD = reciprocal absolute relative dispersion (see below)

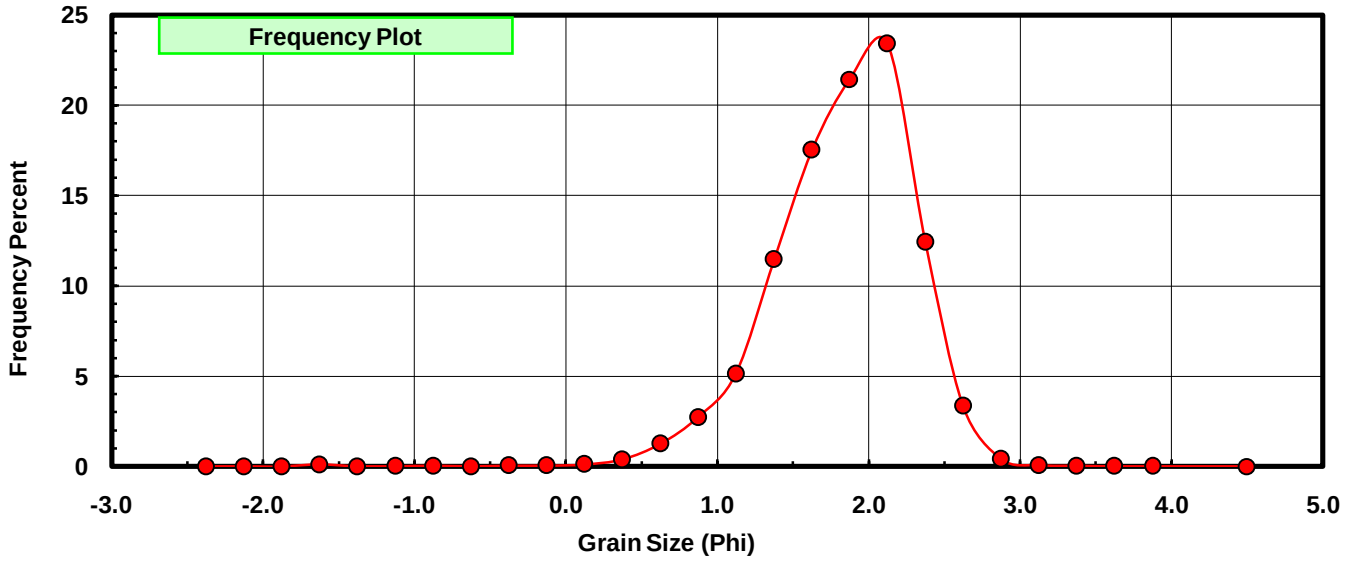
Statistical Explanation

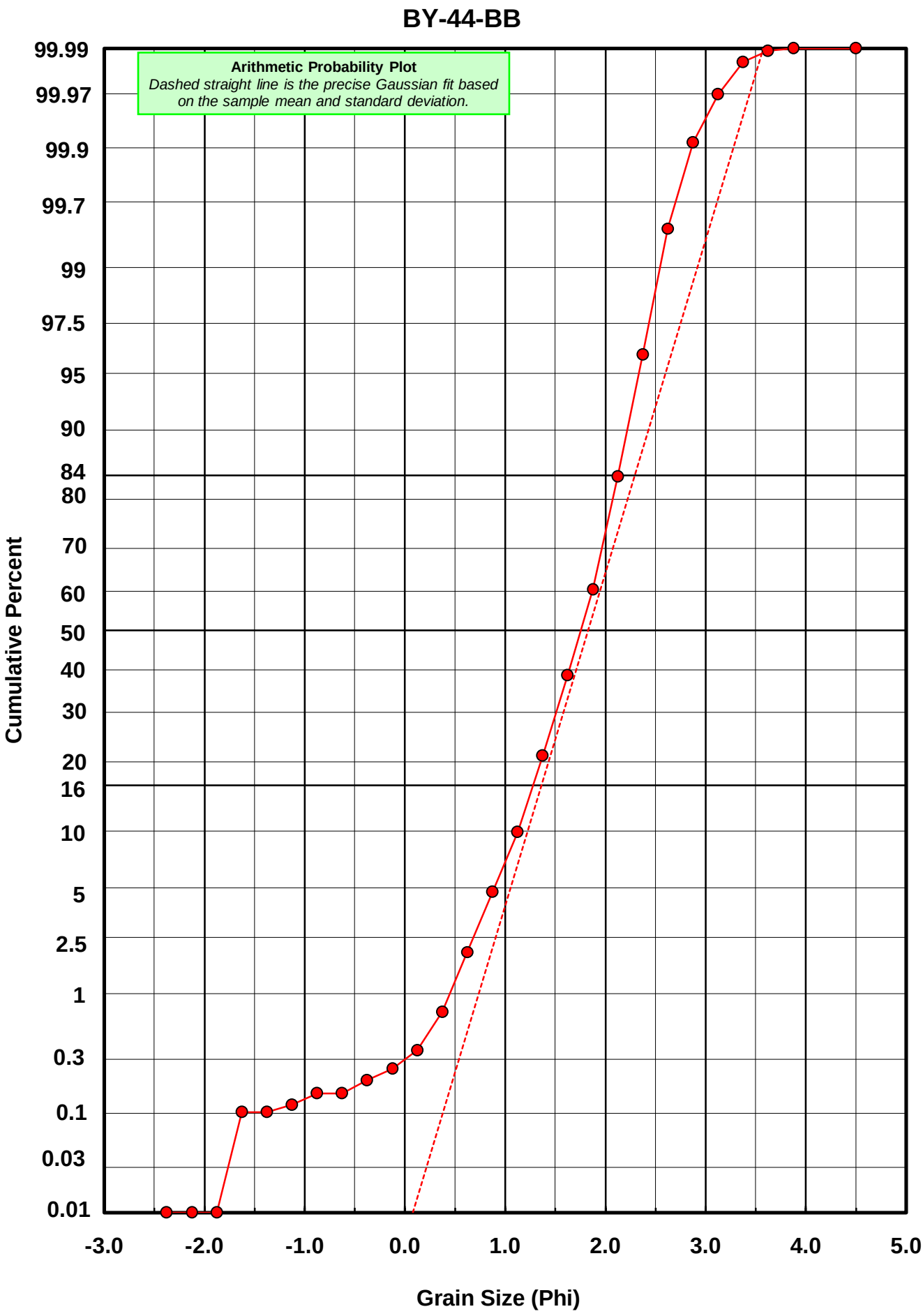
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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)




BY-44-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)