

Onshore Grab Sample

Sample: CH-07-BB
Sample Taken By: D. Phelps
Sample Collected On: 12/17/09
Splits? N/A

County: Charlotte
Latitude: 26° 52' 54.7"
Longitude: 82° 19' 52.3"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 70.881 grams
Total Fines in Sample 0.078 grams
Total Percent Fines 0.11 %

Dry Sieving Summary

Total Sample Weight 70.894 grams
Total Digested Weight 42.002 grams
Total Carbonate Weight 28.892 grams
Total Silica % 59.25 %
Total Carbonate % 40.75 %
Carbonate/Silica Ratio 0.688

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: CH-07-BB

Total Sample Mass: 70.894 grams

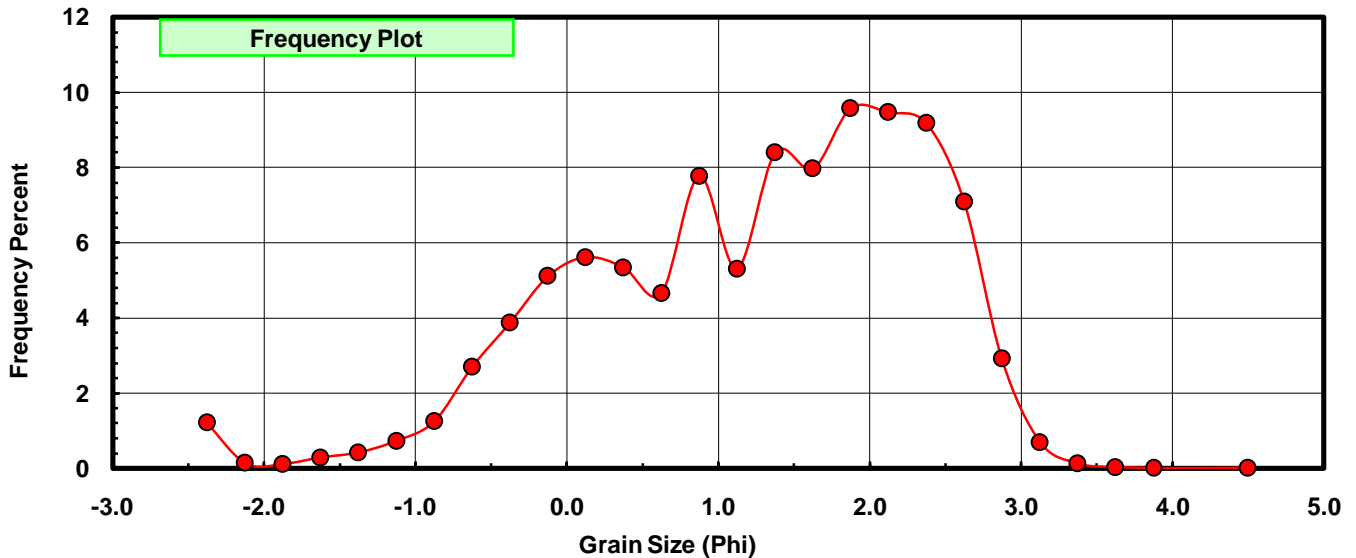
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.860	1.213	1.213
-2.00	-2.125	0.099	0.140	1.353
-1.75	-1.875	0.082	0.116	1.468
-1.50	-1.625	0.202	0.285	1.753
-1.25	-1.375	0.297	0.419	2.172
-1.00	-1.125	0.515	0.726	2.899
-0.75	-0.875	0.886	1.250	4.148
-0.50	-0.625	1.908	2.691	6.840
-0.25	-0.375	2.747	3.875	10.715
0.00	-0.125	3.625	5.113	15.828
0.25	0.125	3.978	5.611	21.439
0.50	0.375	3.785	5.339	26.778
0.75	0.625	3.299	4.653	31.431
1.00	0.875	5.511	7.774	39.205
1.25	1.125	3.761	5.305	44.510
1.50	1.375	5.955	8.400	52.910
1.75	1.625	5.648	7.967	60.877
2.00	1.875	6.790	9.578	70.454
2.25	2.125	6.713	9.469	79.924
2.50	2.375	6.507	9.178	89.102
2.75	2.625	5.031	7.097	96.199
3.00	2.875	2.069	2.918	99.117
3.25	3.125	0.490	0.691	99.808
3.50	3.375	0.094	0.133	99.941
3.75	3.625	0.024	0.034	99.975
4.00	3.875	0.007	0.010	99.984
5.00	4.50	0.011	0.016	100.000

Statistical Results			
Mean:	1.2250	phi	(0.4278 mm)
Standard Dev:	1.1285	phi-units	(0.4574 mm)
Skewness:	-0.6630	dimensionless	
Kurtosis:	3.0664	dimensionless	
5th Moment:	-5.7267	dimensionless	
6th Moment:	19.0622	dimensionless	
RARD *	0.9213	dimensionless	
Median	1.2884	phi	(0.4094 mm)

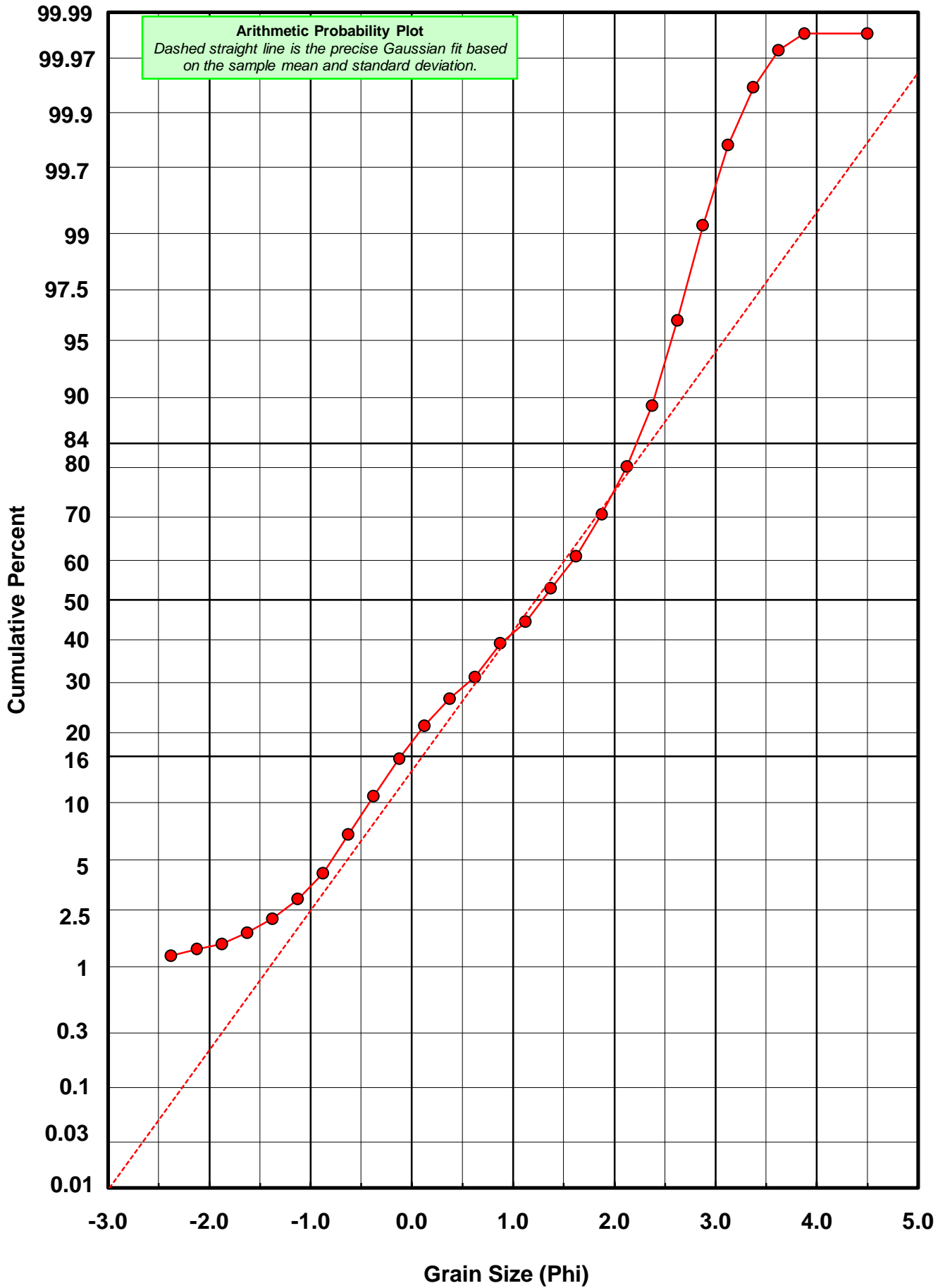
* RARD = reciprocal absolute relative dispersion (see below)

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 Basille 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)



CH-07-BB



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: CH-07-BB

Total Carbonate Mass: 29.032 grams

% Carbonate: 40.8 %

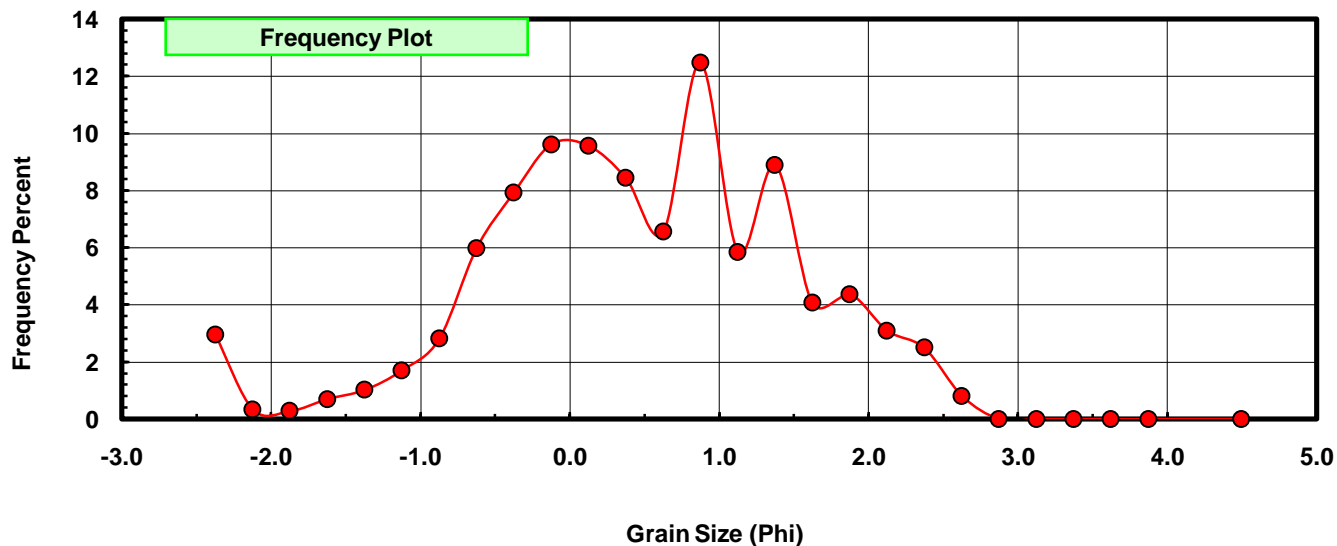
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.860	2.962	2.962
-2.00	-2.125	0.099	0.341	3.303
-1.75	-1.875	0.082	0.282	3.586
-1.50	-1.625	0.202	0.696	4.281
-1.25	-1.375	0.297	1.023	5.304
-1.00	-1.125	0.496	1.708	7.013
-0.75	-0.875	0.818	2.818	9.831
-0.50	-0.625	1.734	5.973	15.803
-0.25	-0.375	2.304	7.936	23.739
0.00	-0.125	2.792	9.617	33.356
0.25	0.125	2.777	9.565	42.922
0.50	0.375	2.450	8.439	51.361
0.75	0.625	1.904	6.558	57.919
1.00	0.875	3.623	12.479	70.398
1.25	1.125	1.699	5.852	76.250
1.50	1.375	2.581	8.890	85.141
1.75	1.625	1.182	4.071	89.212
2.00	1.875	1.268	4.368	93.579
2.25	2.125	0.900	3.100	96.680
2.50	2.375	0.726	2.501	99.180
2.75	2.625	0.236	0.813	99.993
3.00	2.875	0.000	0.000	99.993
3.25	3.125	0.000	0.000	99.993
3.50	3.375	0.000	0.000	99.993
3.75	3.625	0.000	0.000	99.993
4.00	3.875	0.000	0.000	99.993
5.00	4.500	0.002	0.007	100.000

Statistical Results			
Mean:	0.4456	phi	(0.7343 mm)
Standard Dev:	1.0610	phi-units	(0.4793 mm)
Skewness:	-0.3825	dimensionless	
Kurtosis:	3.1061	dimensionless	
5th Moment:	-3.6534	dimensionless	
6th Moment:	15.6038	dimensionless	
RARD *	2.3812	dimensionless	
Median	0.3347	phi	(0.793 mm)

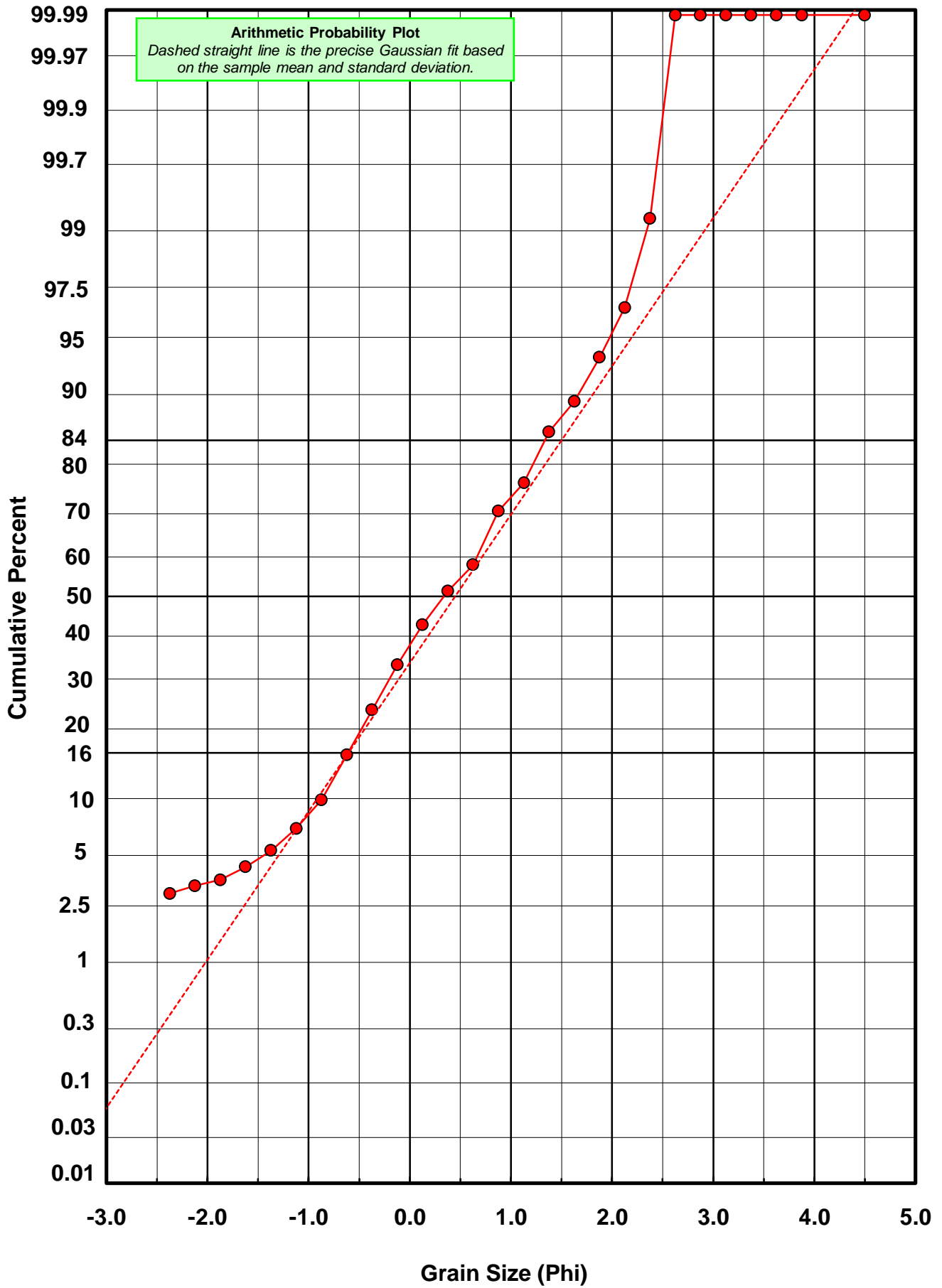
* RARD = reciprocal absolute relative dispersion (see below)

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 Basille 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)



CH-07-BB



Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: CH-07-BB

Total Digested Mass: 42.002 grams

% Silica: 59.2 %

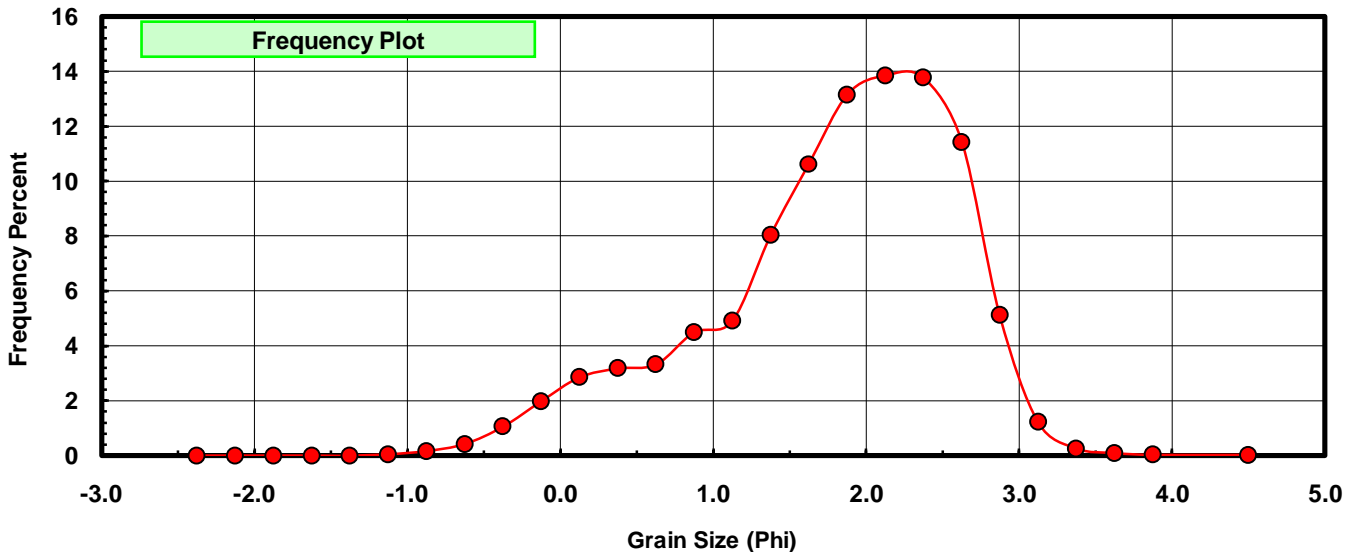
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.019	0.045	0.045
-0.75	-0.875	0.068	0.162	0.207
-0.50	-0.625	0.174	0.414	0.621
-0.25	-0.375	0.443	1.055	1.676
0.00	-0.125	0.833	1.983	3.659
0.25	0.125	1.201	2.859	6.519
0.50	0.375	1.335	3.178	9.697
0.75	0.625	1.395	3.321	13.018
1.00	0.875	1.888	4.495	17.513
1.25	1.125	2.062	4.909	22.423
1.50	1.375	3.374	8.033	30.456
1.75	1.625	4.466	10.633	41.089
2.00	1.875	5.522	13.147	54.236
2.25	2.125	5.813	13.840	68.075
2.50	2.375	5.781	13.764	81.839
2.75	2.625	4.795	11.416	93.255
3.00	2.875	2.147	5.112	98.367
3.25	3.125	0.512	1.219	99.586
3.50	3.375	0.109	0.260	99.845
3.75	3.625	0.039	0.093	99.938
4.00	3.875	0.017	0.040	99.979
5.00	4.500	0.009	0.021	100.000

Statistical Results			
Mean:	1.7700	phi	(0.2932 mm)
Standard Dev:	0.8244	phi-units	(0.5647 mm)
Skewness:	-0.7656	dimensionless	
Kurtosis:	3.1044	dimensionless	
5th Moment:	-5.1124	dimensionless	
6th Moment:	15.9183	dimensionless	
RARD *	0.4657	dimensionless	
Median	1.7945	phi	(0.2883 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 Basille 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)



CH-07-BB

