

**Onshore Grab Sample**

**Sample:** CH-03  
**Sample Taken By:** D. Phelps  
**Sample Collected On:** 12/15/09  
**Splits?** N/A

**County:** Charlotte  
**Latitude:** 26° 55' 9.8"  
**Longitude:** 82° 21' 30.6"  
**Datum:** WGS 84  
**Surf. Elev:** N/A  
**Datum:** N/A

**Fine Data Summary**

Total Sample Weight 65.563 grams  
Total Fines in Sample 0.194 grams  
Total Percent Fines 0.30 %

**Dry Sieving Summary**

Total Sample Weight 65.223 grams  
Total Digested Weight 33.084 grams  
Total Carbonate Weight 32.139 grams  
Total Silica % 50.72 %  
Total Carbonate % 49.28 %  
Carbonate/Silica Ratio 0.971

**General Comments:**

None

**Description**

Worked By: M. Ladle

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: CH-03

Total Sample Mass: 65.223 grams

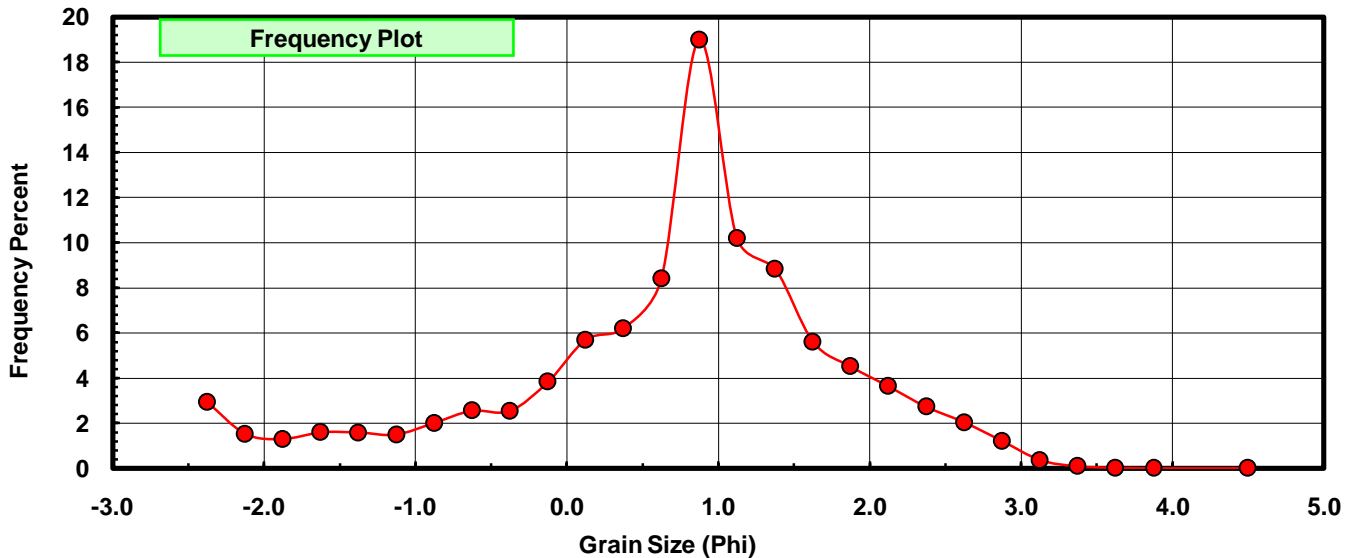
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	1.921	2.945	2.945
-2.00	-2.125	0.995	1.526	4.471
-1.75	-1.875	0.851	1.305	5.776
-1.50	-1.625	1.039	1.593	7.369
-1.25	-1.375	1.030	1.579	8.948
-1.00	-1.125	0.978	1.499	10.447
-0.75	-0.875	1.306	2.002	12.450
-0.50	-0.625	1.667	2.556	15.005
-0.25	-0.375	1.659	2.544	17.549
0.00	-0.125	2.507	3.844	21.393
0.25	0.125	3.715	5.696	27.089
0.50	0.375	4.048	6.206	33.295
0.75	0.625	5.486	8.411	41.706
1.00	0.875	12.395	19.004	60.710
1.25	1.125	6.656	10.205	70.915
1.50	1.375	5.765	8.839	79.754
1.75	1.625	3.657	5.607	85.361
2.00	1.875	2.949	4.521	89.882
2.25	2.125	2.371	3.635	93.518
2.50	2.375	1.783	2.734	96.251
2.75	2.625	1.331	2.041	98.292
3.00	2.875	0.788	1.208	99.500
3.25	3.125	0.236	0.362	99.862
3.50	3.375	0.060	0.092	99.954
3.75	3.625	0.016	0.025	99.979
4.00	3.875	0.005	0.008	99.986
5.00	4.50	0.009	0.014	100.000

Statistical Results			
Mean:	0.6690	phi	(0.6289 mm)
Standard Dev:	1.1738	phi-units	(0.4432 mm)
Skewness:	-0.7476	dimensionless	
Kurtosis:	3.4771	dimensionless	
5th Moment:	-5.0937	dimensionless	
6th Moment:	17.1692	dimensionless	
RARD *	1.7545	dimensionless	
Median	0.7341	phi	(0.6012 mm)

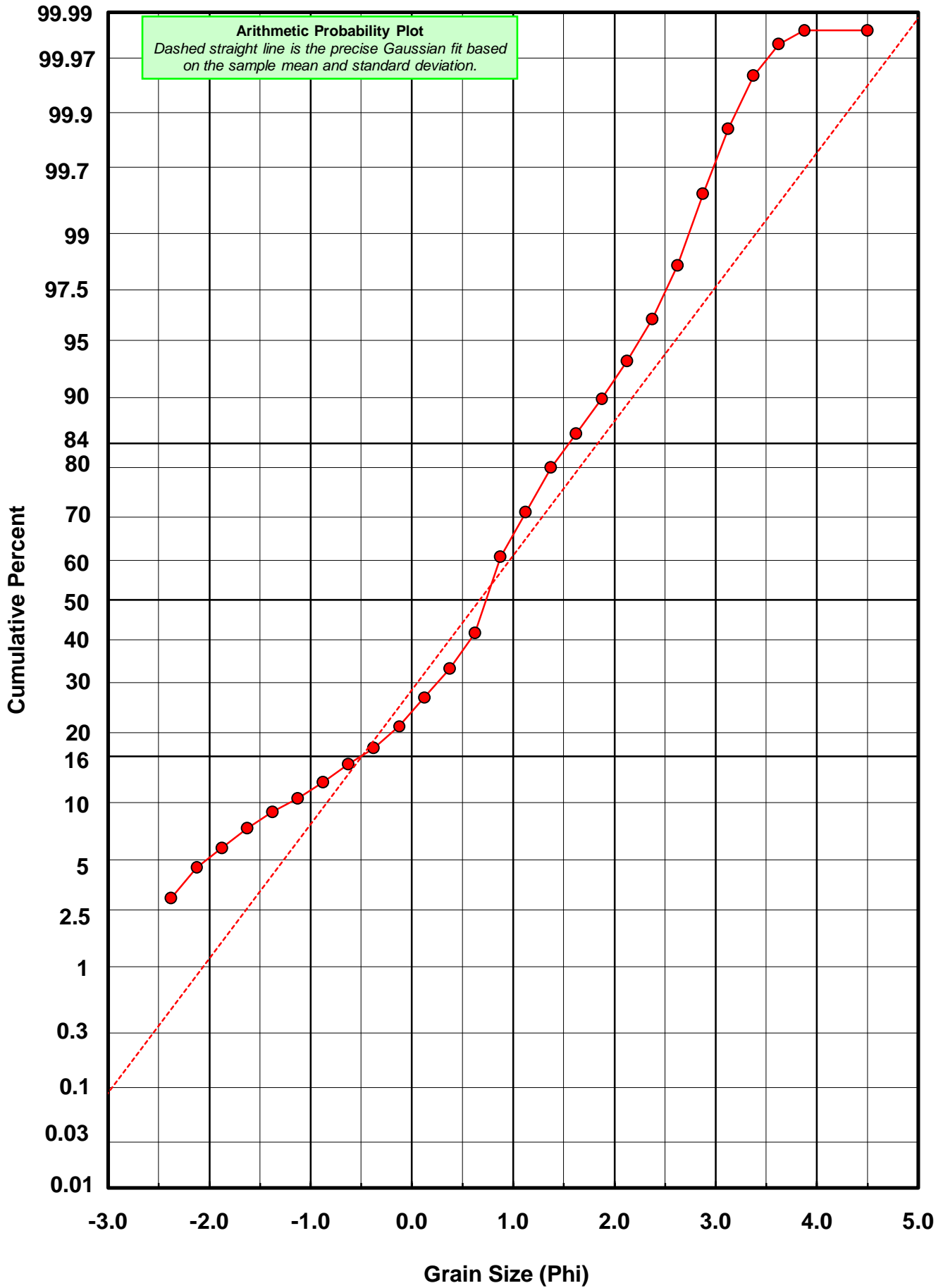
\* RARD = reciprocal absolute relative dispersion (see below)

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-03



# Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: CH-03

Total Carbonate Mass: 32.416 grams

% Carbonate: 49.3 %

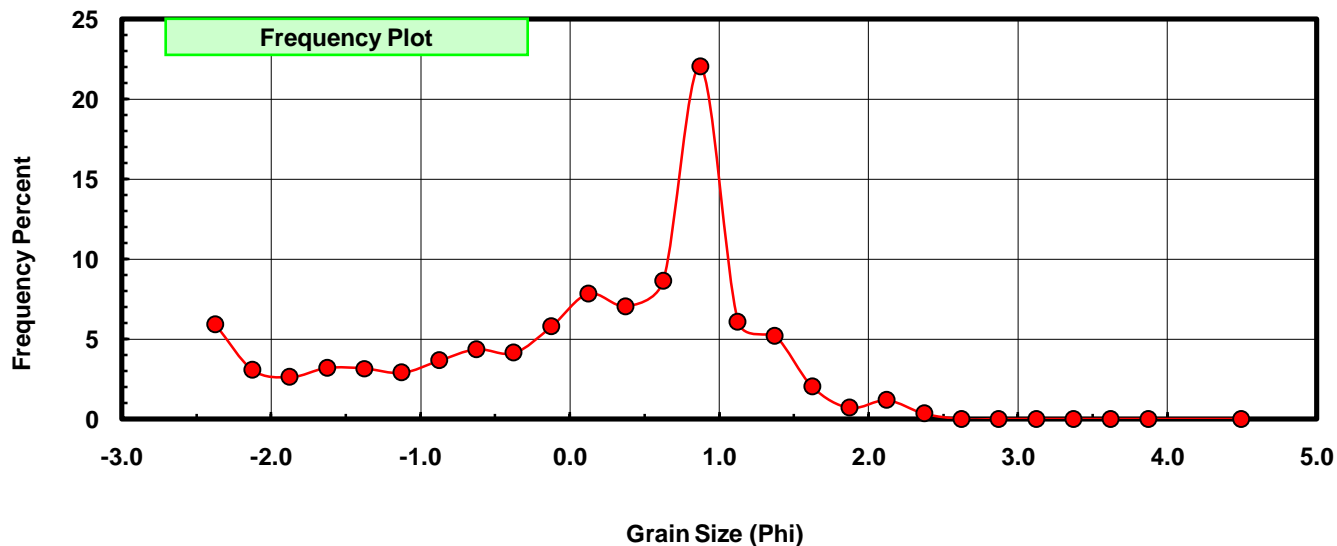
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	1.921	5.926	5.926
-2.00	-2.125	0.995	3.069	8.996
-1.75	-1.875	0.851	2.625	11.621
-1.50	-1.625	1.039	3.205	14.826
-1.25	-1.375	1.030	3.177	18.003
-1.00	-1.125	0.940	2.900	20.903
-0.75	-0.875	1.188	3.665	24.568
-0.50	-0.625	1.417	4.371	28.939
-0.25	-0.375	1.343	4.143	33.082
0.00	-0.125	1.877	5.790	38.873
0.25	0.125	2.542	7.842	46.715
0.50	0.375	2.287	7.055	53.770
0.75	0.625	2.804	8.650	62.420
1.00	0.875	7.140	22.026	84.446
1.25	1.125	1.973	6.087	90.532
1.50	1.375	1.685	5.198	95.731
1.75	1.625	0.659	2.033	97.763
2.00	1.875	0.228	0.703	98.467
2.25	2.125	0.385	1.188	99.654
2.50	2.375	0.112	0.346	100.000
2.75	2.625	0.000	0.000	100.000
3.00	2.875	0.000	0.000	100.000
3.25	3.125	0.000	0.000	100.000
3.50	3.375	0.000	0.000	100.000
3.75	3.625	0.000	0.000	100.000
4.00	3.875	0.000	0.000	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	0.0369	phi	(0.9747 mm)
Standard Dev:	1.1748	phi-units	(0.443 mm)
Skewness:	-0.6494	dimensionless	
Kurtosis:	2.3815	dimensionless	
5th Moment:	-2.8377	dimensionless	
6th Moment:	7.7458	dimensionless	
RARD *	31.8271	dimensionless	
Median	0.2414	phi	(0.8459 mm)

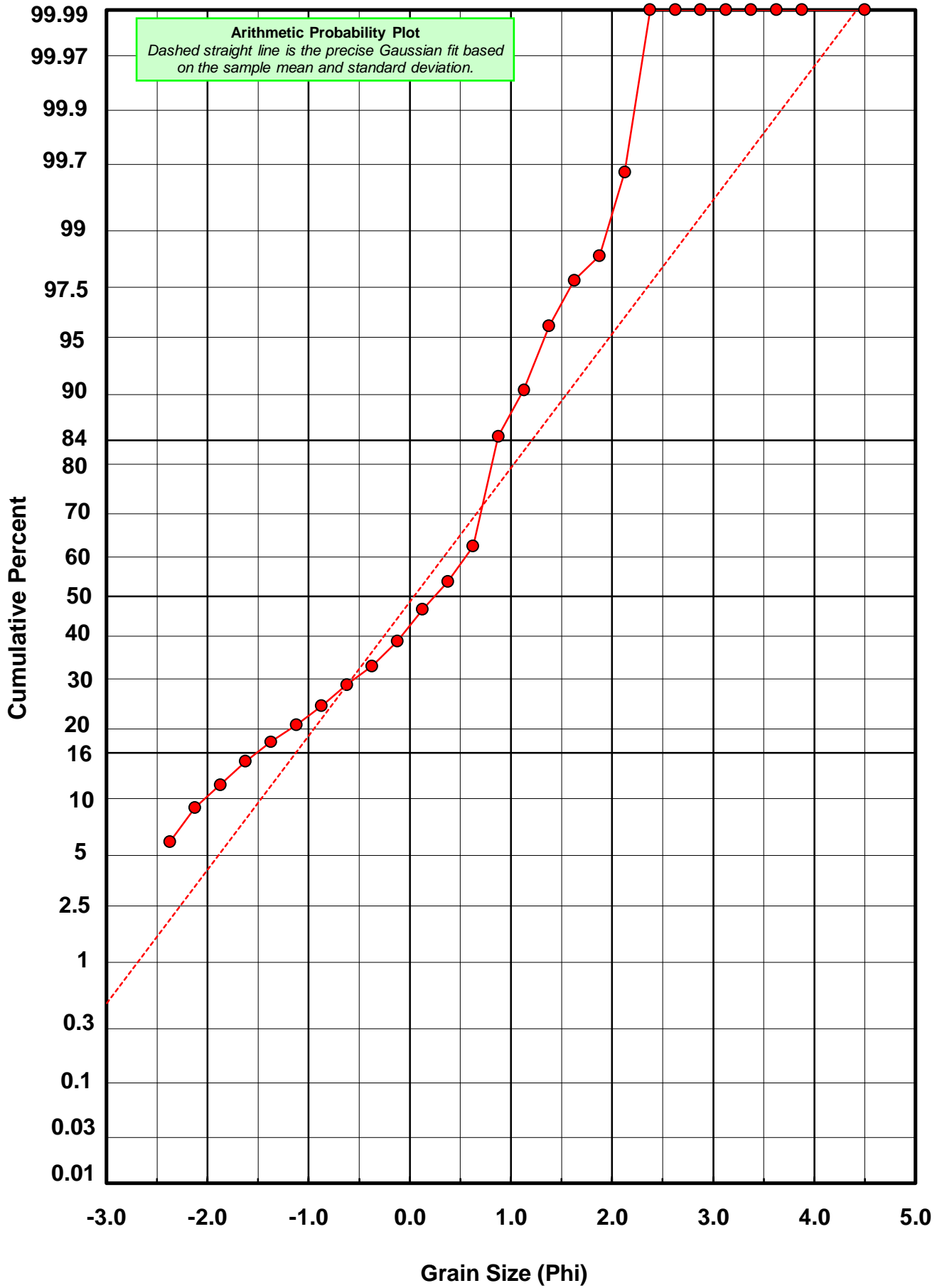
\* RARD = reciprocal absolute relative dispersion (see below)

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-03



# Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: CH-03

Total Digested Mass: 33.084 grams

% Silica: 50.7 %

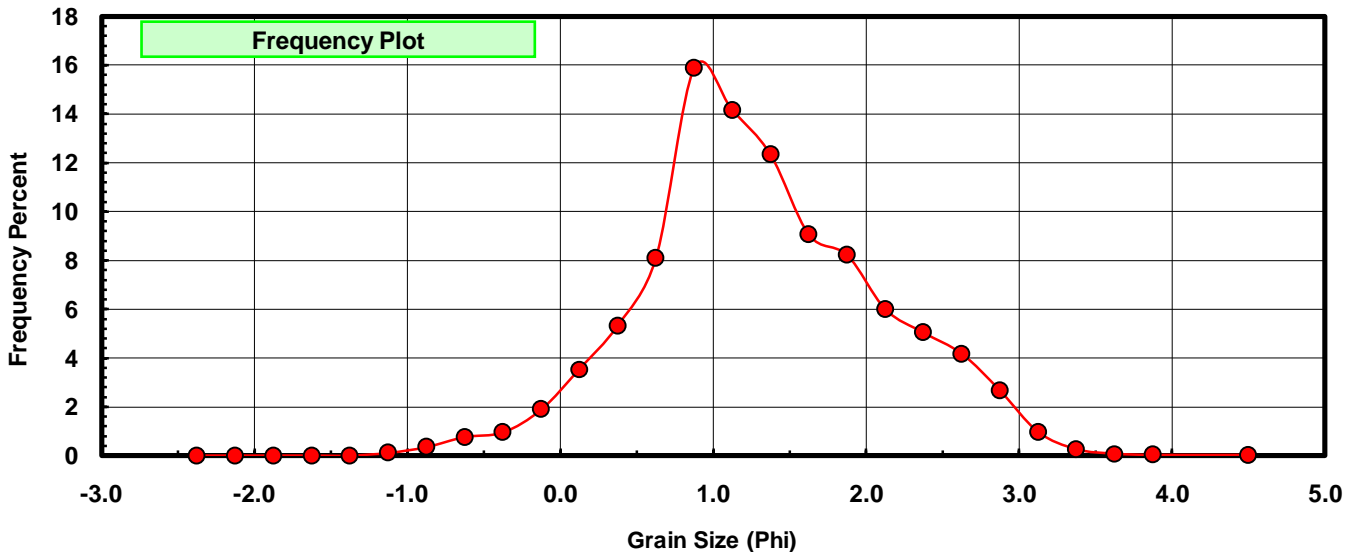
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.038	0.115	0.115
-0.75	-0.875	0.118	0.357	0.472
-0.50	-0.625	0.250	0.756	1.227
-0.25	-0.375	0.316	0.955	2.182
0.00	-0.125	0.630	1.904	4.087
0.25	0.125	1.173	3.546	7.632
0.50	0.375	1.761	5.323	12.955
0.75	0.625	2.682	8.107	21.062
1.00	0.875	5.255	15.884	36.945
1.25	1.125	4.683	14.155	51.100
1.50	1.375	4.080	12.332	63.432
1.75	1.625	2.998	9.062	72.494
2.00	1.875	2.721	8.225	80.719
2.25	2.125	1.986	6.003	86.722
2.50	2.375	1.671	5.051	91.772
2.75	2.625	1.381	4.174	95.947
3.00	2.875	0.885	2.675	98.622
3.25	3.125	0.320	0.967	99.589
3.50	3.375	0.085	0.257	99.846
3.75	3.625	0.028	0.085	99.930
4.00	3.875	0.014	0.042	99.973
5.00	4.500	0.009	0.027	100.000

Statistical Results			
Mean:	1.3080	phi	(0.4039 mm)
Standard Dev:	0.7939	phi-units	(0.5768 mm)
Skewness:	0.1363	dimensionless	
Kurtosis:	2.9295	dimensionless	
5th Moment:	0.4578	dimensionless	
6th Moment:	13.7507	dimensionless	
RARD *	0.6069	dimensionless	
Median	1.1056	phi	(0.4647 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-03

