

## Onshore Grab Sample

**Sample:** CH-04  
**Sample Taken By:** D. Phelps  
**Sample Collected On:** 12/15/09  
**Splits?** N/A

**County:** Charlotte  
**Latitude:** 26° 54' 25.8"  
**Longitude:** 82° 21' 2.6"  
**Datum:** WGS 84  
**Surf. Elev:** N/A  
**Datum:** N/A

### Fine Data Summary

Total Sample Weight	62.872 grams
Total Fines in Sample	0.144 grams
Total Percent Fines	0.23 %

### Dry Sieving Summary

Total Sample Weight	62.551 grams
Total Digested Weight	27.948 grams
Total Carbonate Weight	34.603 grams
Total Silica %	44.68 %
Total Carbonate %	55.32 %
Carbonate/Silica Ratio	1.238

### General Comments:

None

### Description

Worked By: M. Ladle

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: CH-04

Total Sample Mass: 62.551 grams

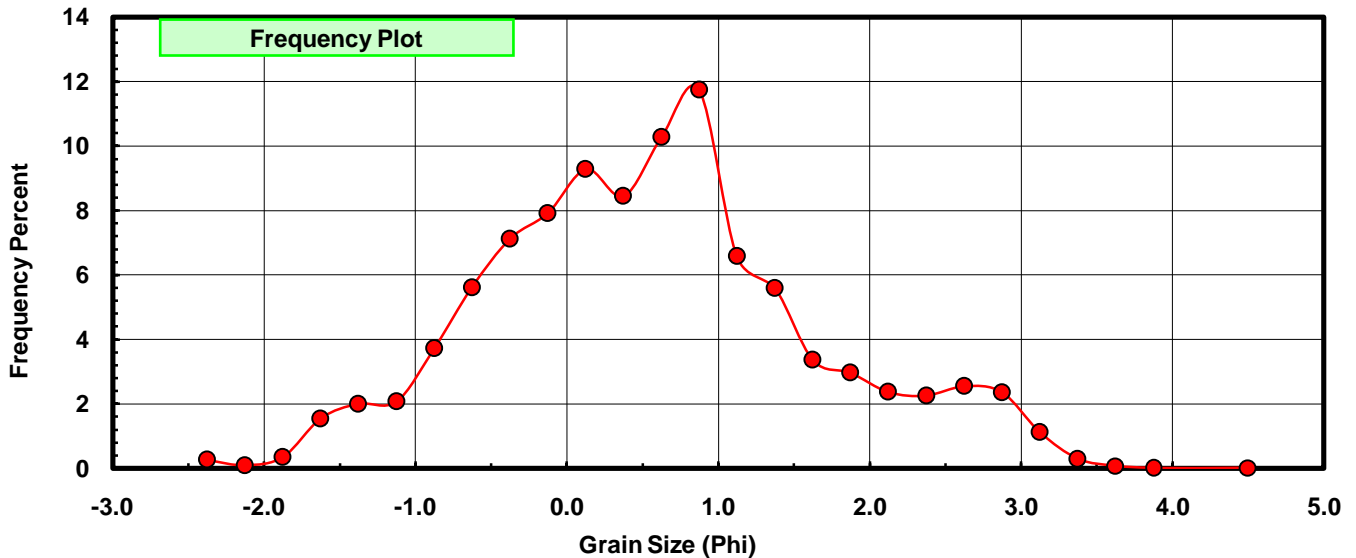
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.167	0.267	0.267
-2.00	-2.125	0.062	0.099	0.366
-1.75	-1.875	0.219	0.350	0.716
-1.50	-1.625	0.968	1.548	2.264
-1.25	-1.375	1.249	1.997	4.261
-1.00	-1.125	1.296	2.072	6.332
-0.75	-0.875	2.328	3.722	10.054
-0.50	-0.625	3.511	5.613	15.667
-0.25	-0.375	4.458	7.127	22.794
0.00	-0.125	4.952	7.917	30.711
0.25	0.125	5.805	9.280	39.991
0.50	0.375	5.282	8.444	48.436
0.75	0.625	6.424	10.270	58.706
1.00	0.875	7.346	11.744	70.450
1.25	1.125	4.113	6.575	77.025
1.50	1.375	3.493	5.584	82.609
1.75	1.625	2.101	3.359	85.968
2.00	1.875	1.855	2.966	88.934
2.25	2.125	1.484	2.372	91.306
2.50	2.375	1.413	2.259	93.565
2.75	2.625	1.592	2.545	96.110
3.00	2.875	1.477	2.361	98.472
3.25	3.125	0.698	1.116	99.588
3.50	3.375	0.186	0.297	99.885
3.75	3.625	0.050	0.080	99.965
4.00	3.875	0.009	0.014	99.979
5.00	4.50	0.013	0.021	100.000

Statistical Results			
Mean:	0.5640	phi	(0.6764 mm)
Standard Dev:	1.0905	phi-units	(0.4696 mm)
Skewness:	0.2669	dimensionless	
Kurtosis:	2.8826	dimensionless	
5th Moment:	1.6474	dimensionless	
6th Moment:	11.9433	dimensionless	
RARD *	1.9334	dimensionless	
Median	0.4131	phi	(0.751 mm)

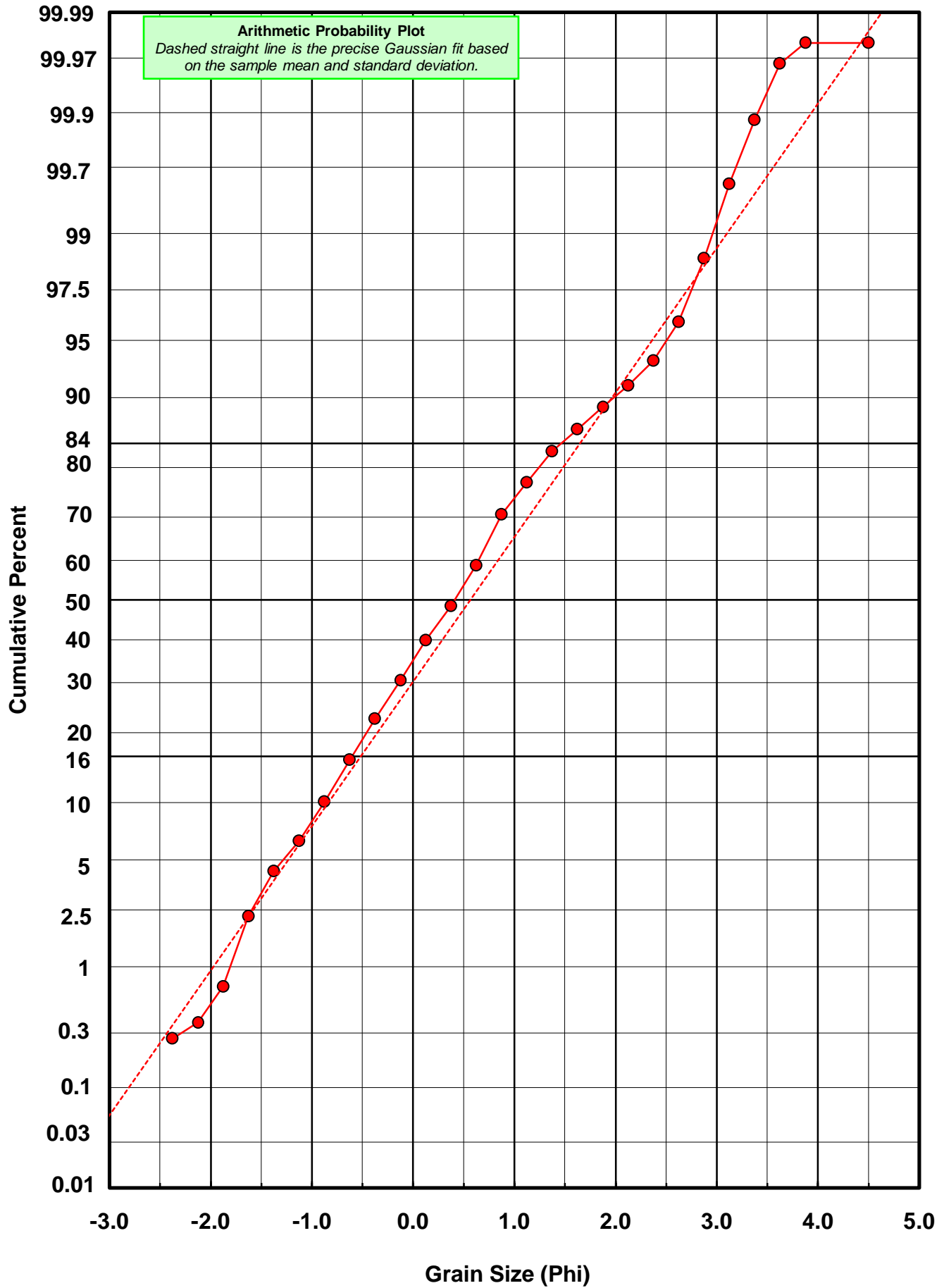
\* RARD = reciprocal absolute relative dispersion (see below)

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-04



# Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: CH-04

Total Carbonate Mass: 34.603 grams

% Carbonate: 55.3 %

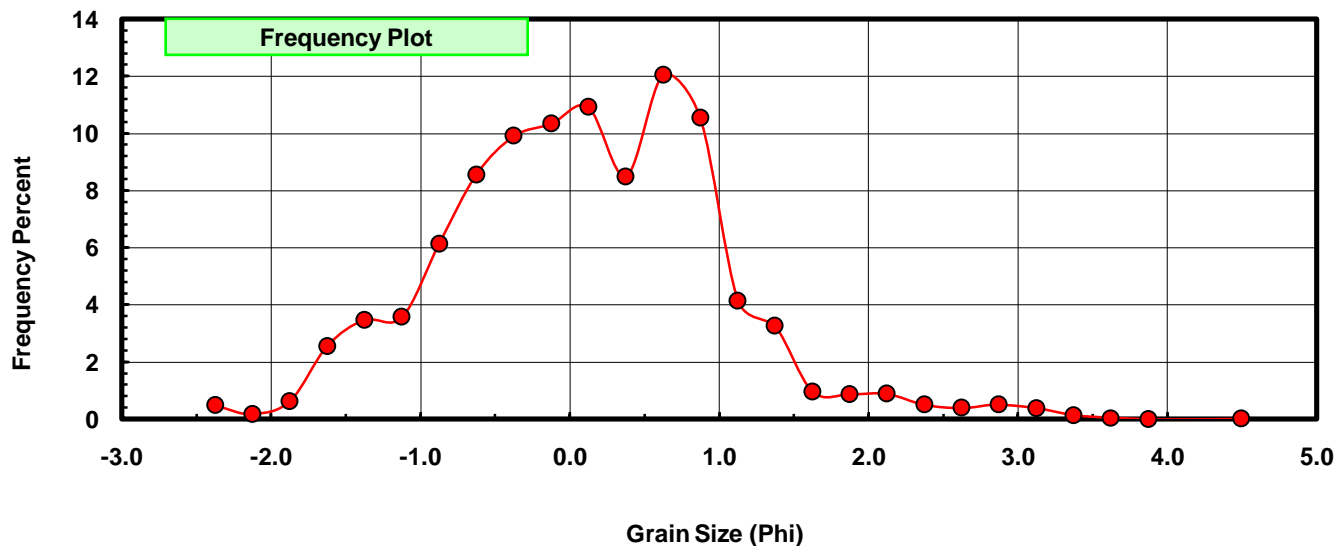
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.167	0.483	0.483
-2.00	-2.125	0.062	0.179	0.662
-1.75	-1.875	0.219	0.633	1.295
-1.50	-1.625	0.884	2.555	3.849
-1.25	-1.375	1.201	3.471	7.320
-1.00	-1.125	1.237	3.575	10.895
-0.75	-0.875	2.124	6.138	17.033
-0.50	-0.625	2.960	8.554	25.587
-0.25	-0.375	3.431	9.915	35.503
0.00	-0.125	3.577	10.337	45.840
0.25	0.125	3.779	10.921	56.761
0.50	0.375	2.940	8.496	65.257
0.75	0.625	4.169	12.048	77.305
1.00	0.875	3.647	10.540	87.845
1.25	1.125	1.434	4.144	91.989
1.50	1.375	1.130	3.266	95.255
1.75	1.625	0.335	0.968	96.223
2.00	1.875	0.301	0.870	97.093
2.25	2.125	0.308	0.890	97.983
2.50	2.375	0.176	0.509	98.491
2.75	2.625	0.136	0.393	98.884
3.00	2.875	0.178	0.514	99.399
3.25	3.125	0.134	0.387	99.786
3.50	3.375	0.048	0.139	99.925
3.75	3.625	0.019	0.055	99.980
4.00	3.875	0.001	0.003	99.983
5.00	4.500	0.006	0.017	100.000

Statistical Results			
Mean:	0.0985	phi	(0.934 mm)
Standard Dev:	0.9285	phi-units	(0.5254 mm)
Skewness:	0.2823	dimensionless	
Kurtosis:	3.5841	dimensionless	
5th Moment:	4.2925	dimensionless	
6th Moment:	24.6139	dimensionless	
RARD *	9.4263	dimensionless	
Median	-0.0298	phi	(1.0208 mm)

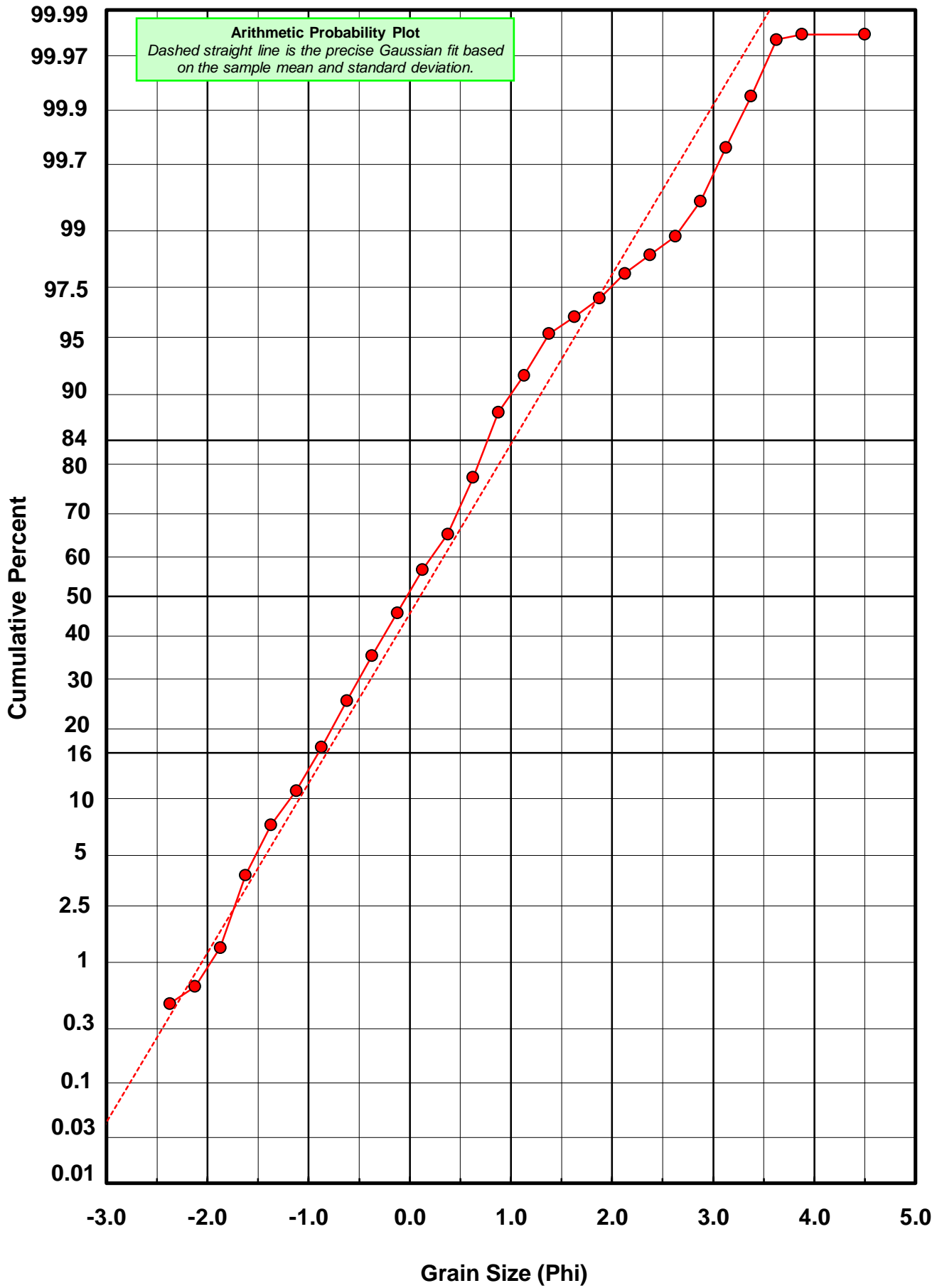
\* RARD = reciprocal absolute relative dispersion (see below)

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-04



# Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: CH-04

Total Digested Mass: 27.948 grams

% Silica: 44.7 %

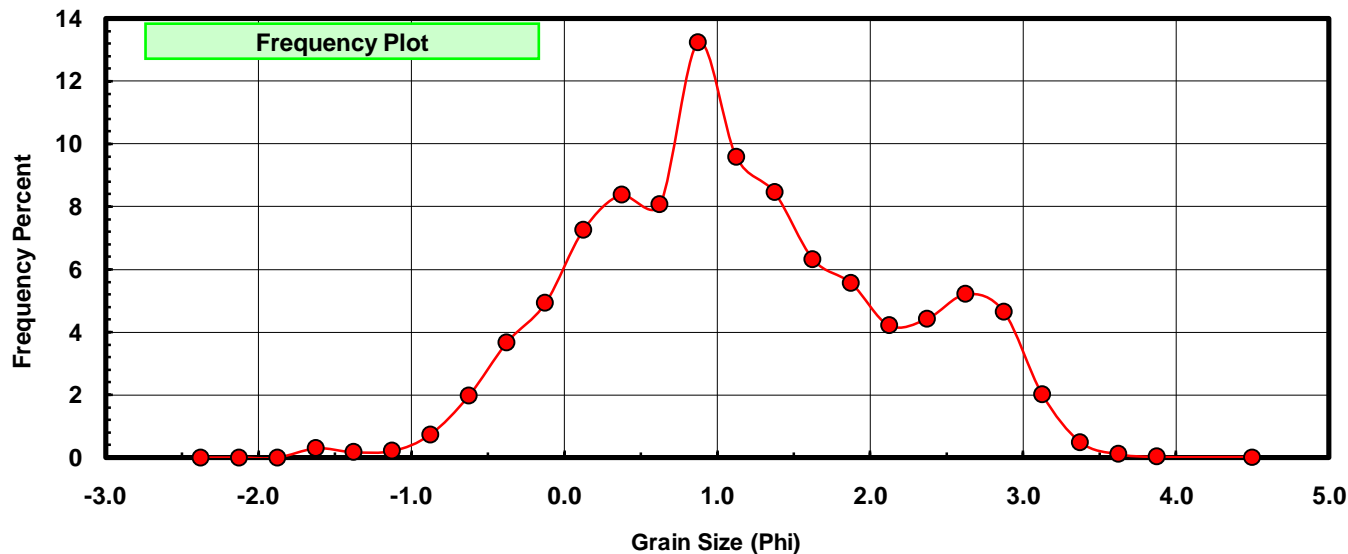
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.084	0.301	0.301
-1.25	-1.375	0.048	0.172	0.472
-1.00	-1.125	0.059	0.211	0.683
-0.75	-0.875	0.204	0.730	1.413
-0.50	-0.625	0.551	1.972	3.385
-0.25	-0.375	1.027	3.675	7.060
0.00	-0.125	1.375	4.920	11.979
0.25	0.125	2.026	7.249	19.229
0.50	0.375	2.342	8.380	27.608
0.75	0.625	2.255	8.069	35.677
1.00	0.875	3.699	13.235	48.912
1.25	1.125	2.679	9.586	58.498
1.50	1.375	2.363	8.455	66.953
1.75	1.625	1.766	6.319	73.272
2.00	1.875	1.554	5.560	78.832
2.25	2.125	1.176	4.208	83.040
2.50	2.375	1.237	4.426	87.466
2.75	2.625	1.456	5.210	92.676
3.00	2.875	1.299	4.648	97.324
3.25	3.125	0.564	2.018	99.342
3.50	3.375	0.138	0.494	99.835
3.75	3.625	0.031	0.111	99.946
4.00	3.875	0.008	0.029	99.975
5.00	4.500	0.007	0.025	100.000

Statistical Results			
Mean:	1.1404	phi	(0.4536 mm)
Standard Dev:	1.0091	phi-units	(0.4968 mm)
Skewness:	0.1754	dimensionless	
Kurtosis:	2.4067	dimensionless	
5th Moment:	0.5104	dimensionless	
6th Moment:	8.3591	dimensionless	
RARD *	0.8849	dimensionless	
Median	0.9034	phi	(0.5346 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-04

