

**Onshore Grab Sample**

**Sample:** CR-39-BB  
**Sample Taken By:** D. Phelps  
**Sample Collected On:** 11/6/09  
**Splits?** N/A

**County:** Collier  
**Latitude:** 25° 54' 39.4"  
**Longitude:** 81° 43' 43.9"  
**Datum:** WGS 84  
**Surf. Elev:** N/A  
**Datum:** N/A

**Fine Data Summary**

Total Sample Weight	57.544 grams
Total Fines in Sample	0.569 grams
Total Percent Fines	0.98 %

**Dry Sieving Summary**

Total Sample Weight	57.095 grams
Total Digested Weight	25.894 grams
Total Carbonate Weight	31.201 grams
Total Silica %	45.35 %
Total Carbonate %	54.65 %
Carbonate/Silica Ratio	1.205

**General Comments:**

None

**Description**

Worked By: M. Ladle

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: CR-39-BB

Total Sample Mass: 57.095 grams

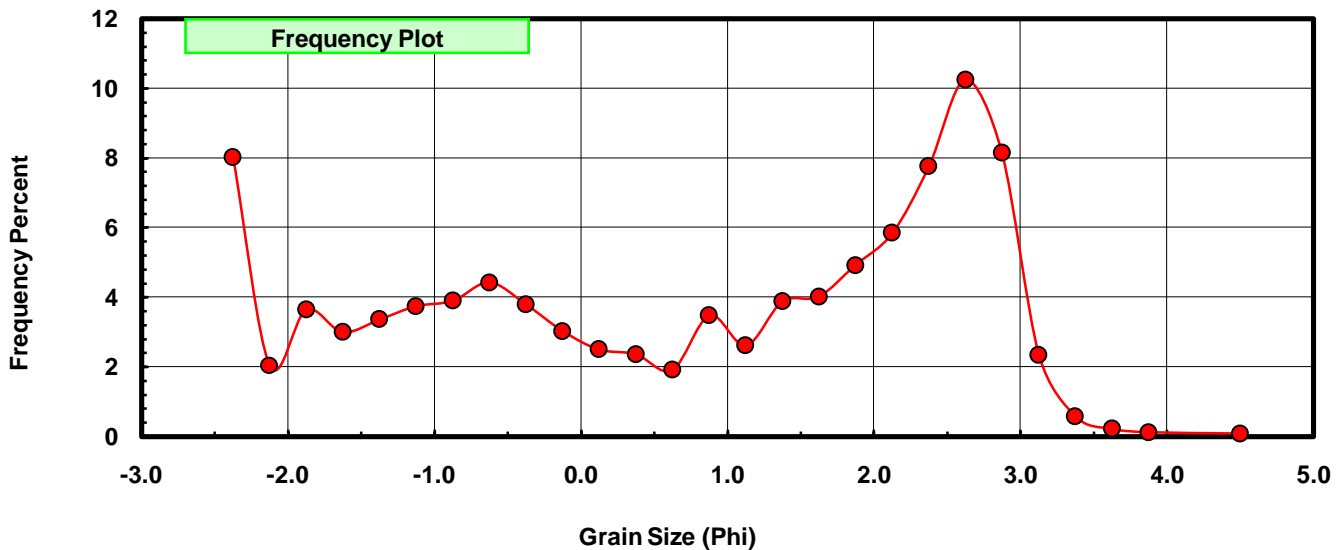
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	4.574	8.011	8.011
-2.00	-2.125	1.174	2.056	10.067
-1.75	-1.875	2.079	3.641	13.709
-1.50	-1.625	1.713	3.000	16.709
-1.25	-1.375	1.924	3.370	20.079
-1.00	-1.125	2.135	3.739	23.818
-0.75	-0.875	2.225	3.897	27.715
-0.50	-0.625	2.523	4.419	32.134
-0.25	-0.375	2.166	3.794	35.928
0.00	-0.125	1.726	3.023	38.951
0.25	0.125	1.428	2.501	41.452
0.50	0.375	1.351	2.366	43.818
0.75	0.625	1.091	1.911	45.729
1.00	0.875	1.985	3.477	49.206
1.25	1.125	1.493	2.615	51.821
1.50	1.375	2.214	3.878	55.698
1.75	1.625	2.295	4.020	59.718
2.00	1.875	2.810	4.922	64.640
2.25	2.125	3.337	5.845	70.484
2.50	2.375	4.431	7.761	78.245
2.75	2.625	5.851	10.248	88.493
3.00	2.875	4.652	8.148	96.641
3.25	3.125	1.340	2.347	98.988
3.50	3.375	0.330	0.578	99.566
3.75	3.625	0.127	0.222	99.788
4.00	3.875	0.071	0.124	99.912
5.00	4.50	0.050	0.088	100.000

Statistical Results			
Mean:	0.6970	phi	(0.6168 mm)
Standard Dev:	1.8314	phi-units	(0.281 mm)
Skewness:	-0.2979	dimensionless	
Kurtosis:	1.6471	dimensionless	
5th Moment:	-1.0758	dimensionless	
6th Moment:	3.4125	dimensionless	
RARD *	2.6275	dimensionless	
Median	0.9509	phi	(0.5173 mm)

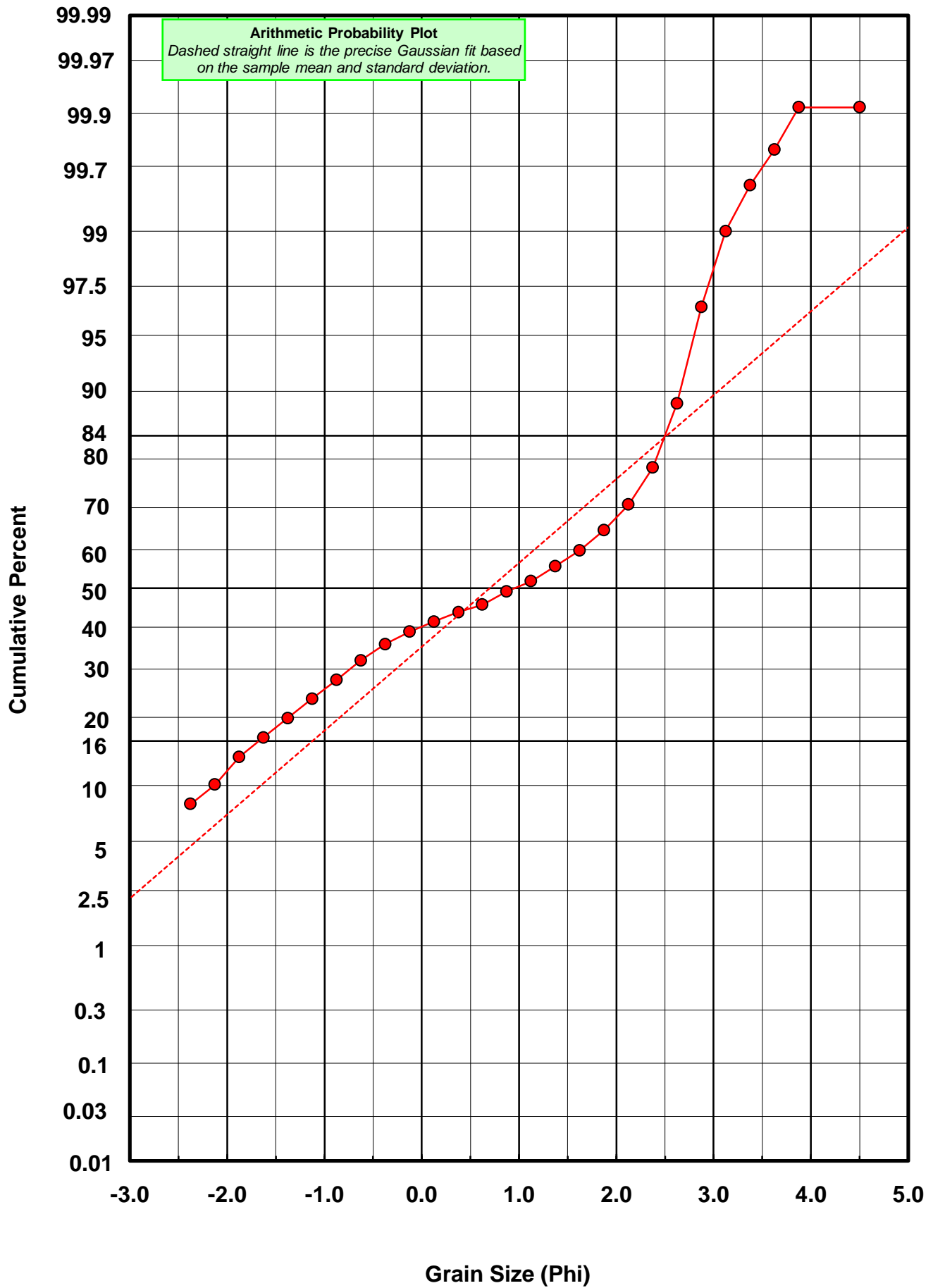
\* RARD = reciprocal absolute relative dispersion (see below)

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)



# CR-39-BB



# Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: CR-39-BB

Total Carbonate Mass: 31.603 grams

% Carbonate: 54.6 %

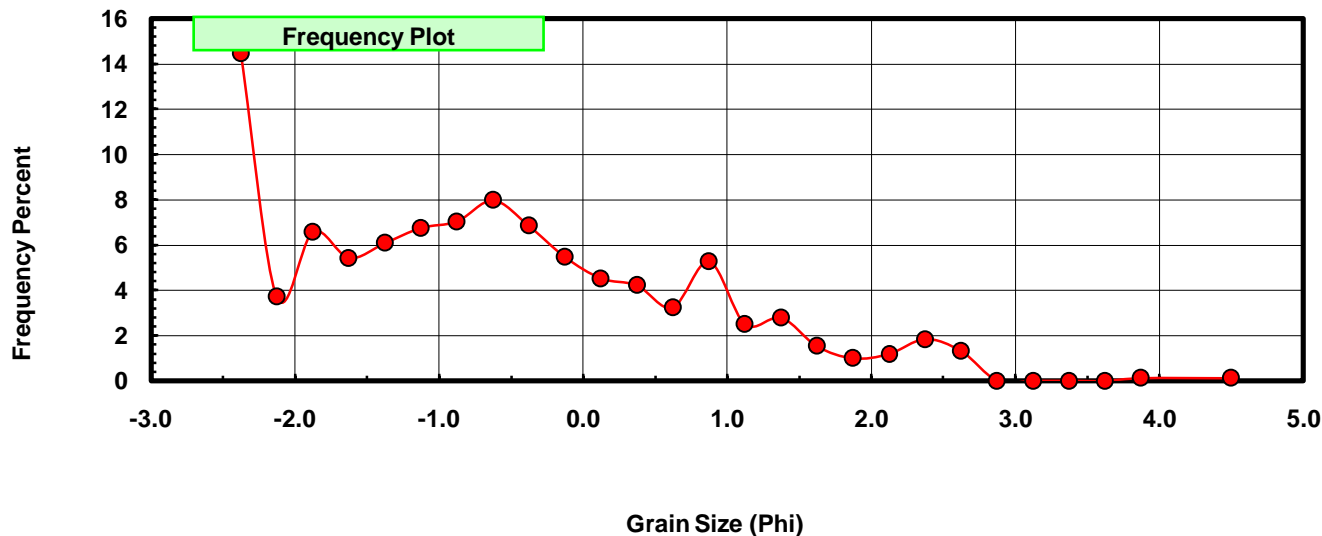
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	4.574	14.473	14.473
-2.00	-2.125	1.174	3.715	18.188
-1.75	-1.875	2.079	6.578	24.767
-1.50	-1.625	1.713	5.420	30.187
-1.25	-1.375	1.924	6.088	36.275
-1.00	-1.125	2.135	6.756	43.031
-0.75	-0.875	2.225	7.040	50.071
-0.50	-0.625	2.523	7.983	58.055
-0.25	-0.375	2.166	6.854	64.908
0.00	-0.125	1.726	5.462	70.370
0.25	0.125	1.428	4.519	74.888
0.50	0.375	1.332	4.215	79.103
0.75	0.625	1.024	3.240	82.343
1.00	0.875	1.665	5.268	87.612
1.25	1.125	0.788	2.493	90.105
1.50	1.375	0.882	2.791	92.896
1.75	1.625	0.484	1.532	94.428
2.00	1.875	0.315	0.997	95.424
2.25	2.125	0.373	1.180	96.605
2.50	2.375	0.580	1.835	98.440
2.75	2.625	0.413	1.307	99.747
3.00	2.875	0.000	0.000	99.747
3.25	3.125	0.000	0.000	99.747
3.50	3.375	0.000	0.000	99.747
3.75	3.625	0.000	0.000	99.747
4.00	3.875	0.040	0.127	99.873
5.00	4.500	0.040	0.127	100.000

Statistical Results			
Mean:	-0.6265	phi	(1.5438 mm)
Standard Dev:	1.3532	phi-units	(0.3914 mm)
Skewness:	0.5674	dimensionless	
Kurtosis:	2.6708	dimensionless	
5th Moment:	4.2588	dimensionless	
6th Moment:	13.4702	dimensionless	
RARD *	2.1600	dimensionless	
Median	-0.8775	phi	(1.8372 mm)

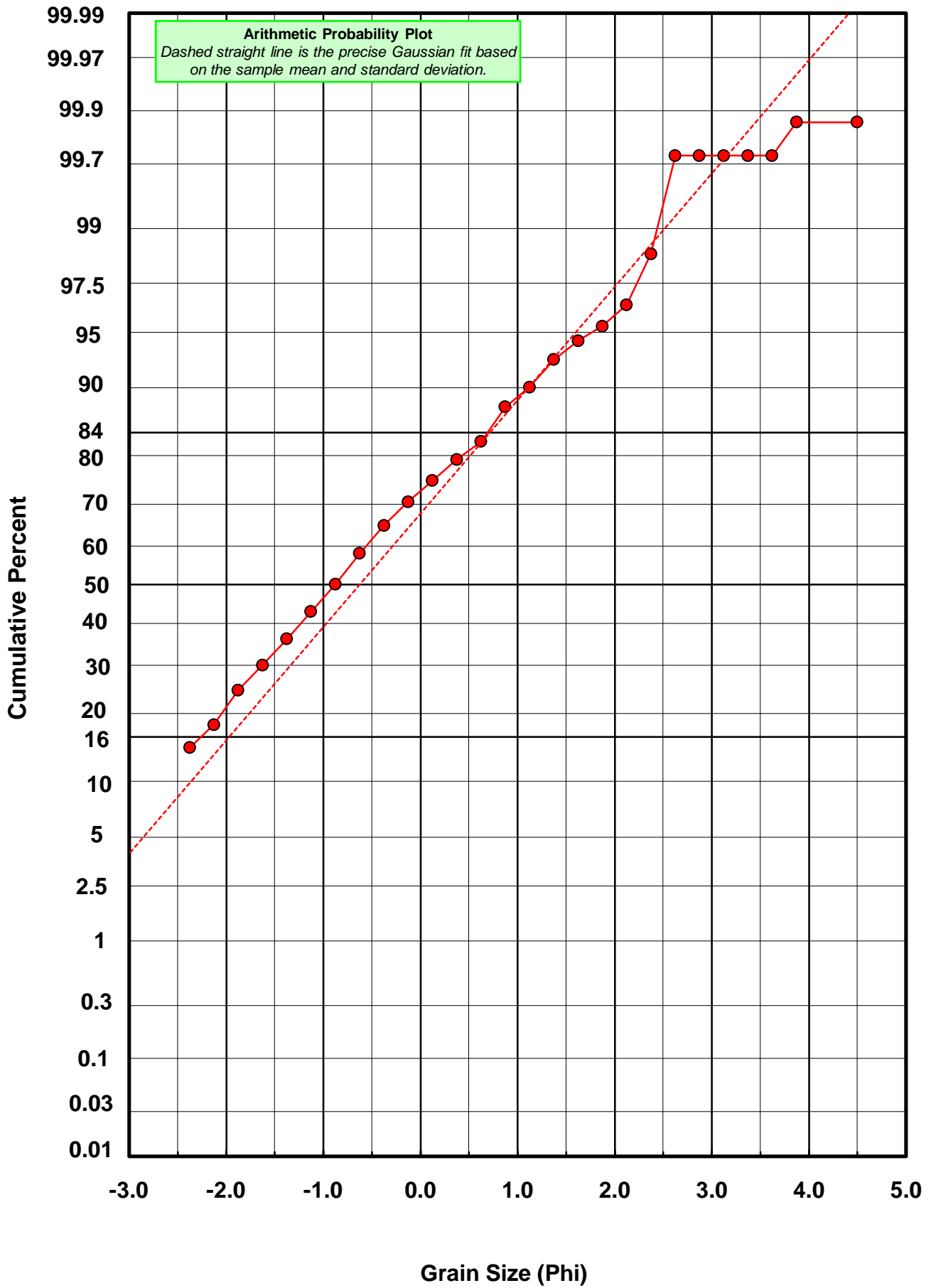
\* RARD = reciprocal absolute relative dispersion (see below)

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)



# CR-39-BB



# Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: CR-39-BB

Total Digested Mass: 25.894 grams

% Silica: 45.4 %

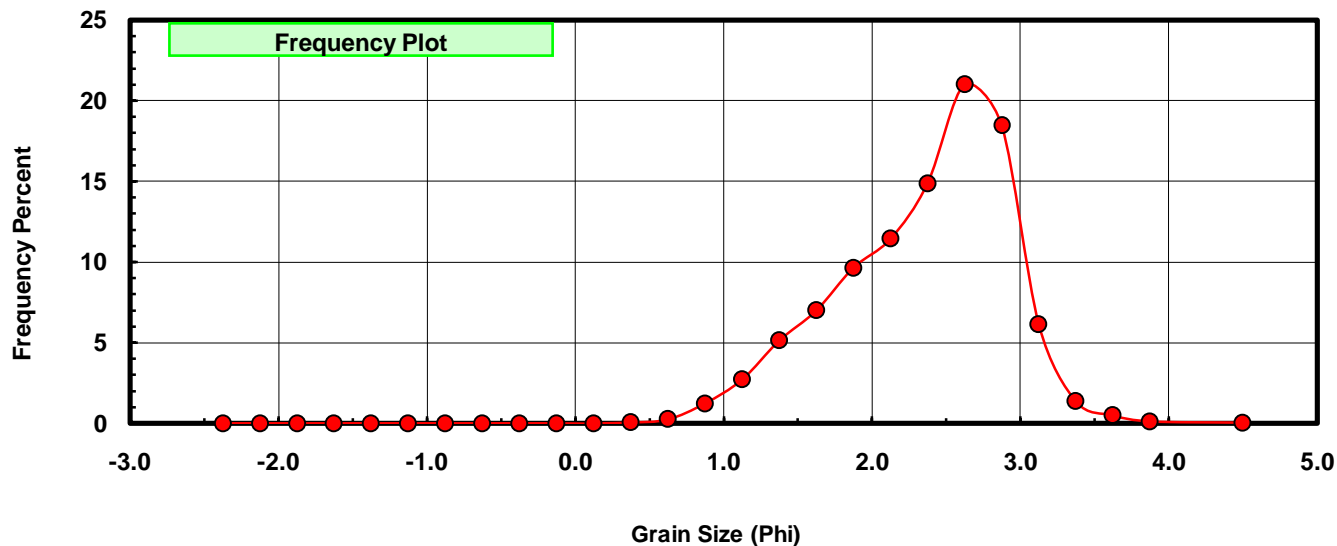
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	0.000
0.00	-0.125	0.000	0.000	0.000
0.25	0.125	0.000	0.000	0.000
0.50	0.375	0.019	0.073	0.073
0.75	0.625	0.067	0.259	0.332
1.00	0.875	0.320	1.236	1.568
1.25	1.125	0.705	2.723	4.291
1.50	1.375	1.332	5.144	9.435
1.75	1.625	1.811	6.994	16.429
2.00	1.875	2.495	9.635	26.064
2.25	2.125	2.964	11.447	37.511
2.50	2.375	3.851	14.872	52.383
2.75	2.625	5.438	21.001	73.384
3.00	2.875	4.780	18.460	91.844
3.25	3.125	1.585	6.121	97.965
3.50	3.375	0.357	1.379	99.343
3.75	3.625	0.129	0.498	99.842
4.00	3.875	0.031	0.120	99.961
5.00	4.500	0.010	0.039	100.000

Statistical Results			
Mean:	2.3491	phi	(0.1963 mm)
Standard Dev:	0.5790	phi-units	(0.6694 mm)
Skewness:	-0.5407	dimensionless	
Kurtosis:	2.8226	dimensionless	
5th Moment:	-3.1733	dimensionless	
6th Moment:	13.6182	dimensionless	
RARD *	0.2465	dimensionless	
Median	2.3349	phi	(0.1982 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)



# CR-39-BB

