

**Onshore Grab Sample**

**Sample:** SJ-03-BB  
**Sample Taken By:** J. Ladner  
**Sample Collected On:** 12/2/03  
**Splits?** N/A

**County:** St. Johns  
**Latitude:** 30° 13' 42.3"  
**Longitude:** 81° 22' 27.2"  
**Datum:** WGS 84  
**Surf. Elev:** N/A  
**Datum:** N/A

**Fine Data Summary**

Total Sample Weight 82.379 grams  
Total Fines in Sample 0.202 grams  
Total Percent Fines 0.24 %

**Dry Sieving Summary**

Total Sample Weight 82.107 grams  
Total Digested Weight 78.808 grams  
Total Carbonate Weight 3.299 grams  
Total Silica % 95.98 %  
Total Carbonate % 4.02 %  
Carbonate/Silica Ratio 0.042

**General Comments:**

None

**Description**

Worked By: M. Lachance

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-03-BB

Total Sample Mass: 82.107 grams

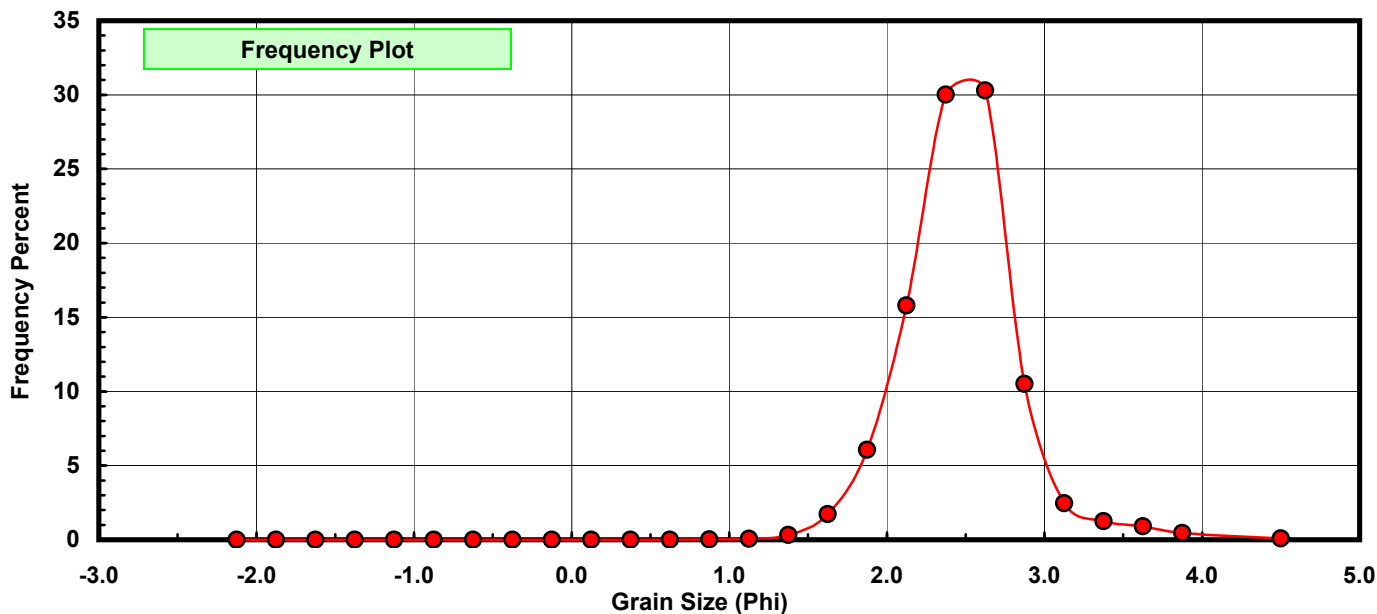
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.001	0.001	0.001
-0.25	-0.375	0.001	0.001	0.002
0.00	-0.125	0.002	0.002	0.005
0.25	0.125	0.001	0.001	0.006
0.50	0.375	0.004	0.005	0.011
0.75	0.625	0.001	0.001	0.012
1.00	0.875	0.014	0.017	0.029
1.25	1.125	0.052	0.063	0.093
1.50	1.375	0.267	0.325	0.418
1.75	1.625	1.424	1.734	2.152
2.00	1.875	4.975	6.059	8.211
2.25	2.125	12.961	15.785	23.997
2.50	2.375	24.646	30.017	54.014
2.75	2.625	24.880	30.302	84.316
3.00	2.875	8.631	10.512	94.827
3.25	3.125	2.023	2.464	97.291
3.50	3.375	1.024	1.247	98.538
3.75	3.625	0.747	0.910	99.448
4.00	3.875	0.378	0.460	99.909
5.00	4.500	0.075	0.091	100.000

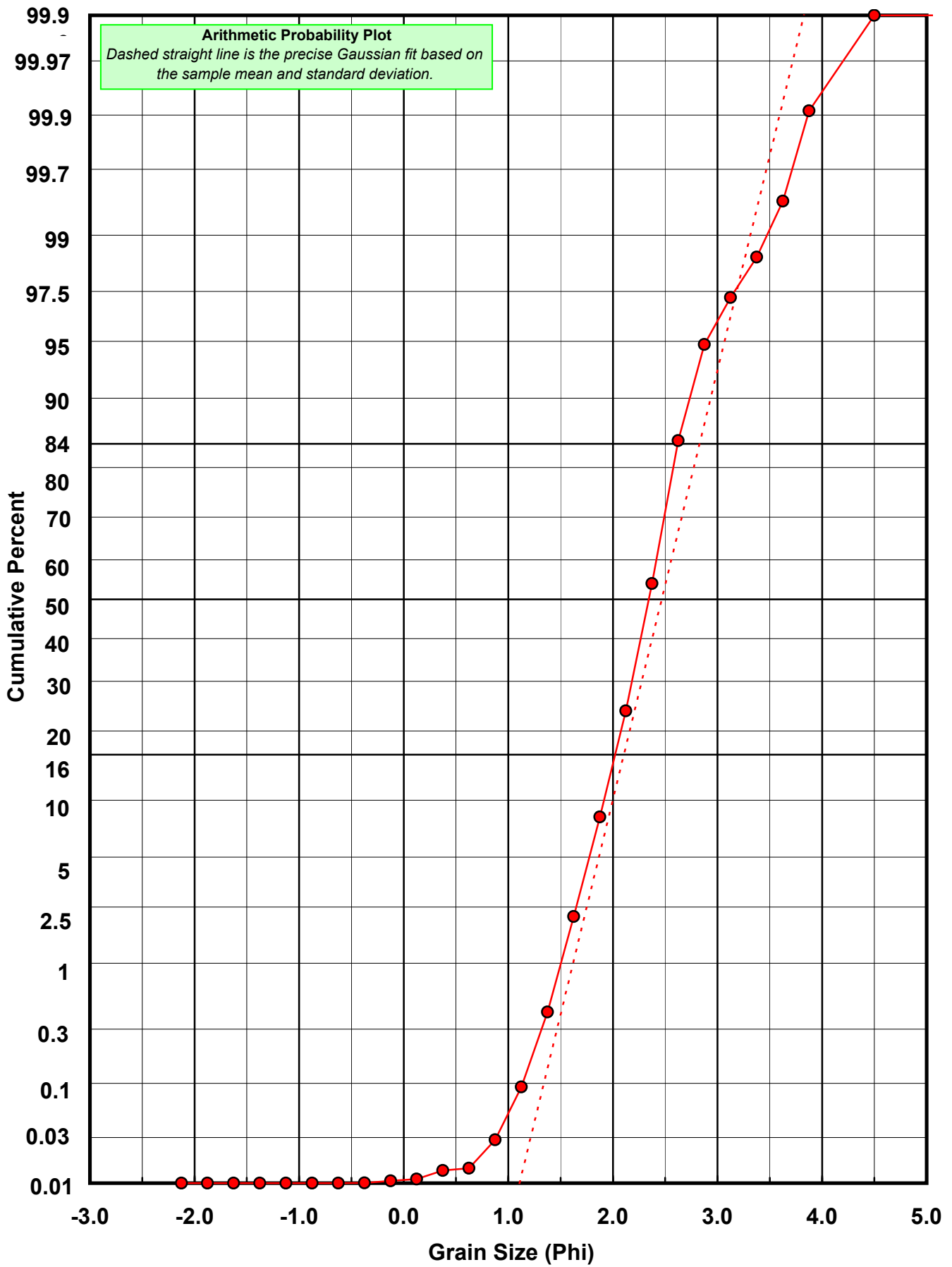
Statistical Results			
Mean:	2.4671	phi	(0.1808 mm)
Standard Dev:	0.3653	phi-units	(0.7763 mm)
Skewness:	0.4491	dimensionless	
Kurtosis:	5.5047	dimensionless	
5th Moment:	8.4650	dimensionless	
6th Moment:	78.3256	dimensionless	
RARD *	0.1481	dimensionless	
Median	2.3416	phi	(0.1973 mm)

\* 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 Calculation Sheets
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)





# Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: SJ-03-BB

Total Carbonate Mass: 3.672 grams

% Carbonate: 4.0 %

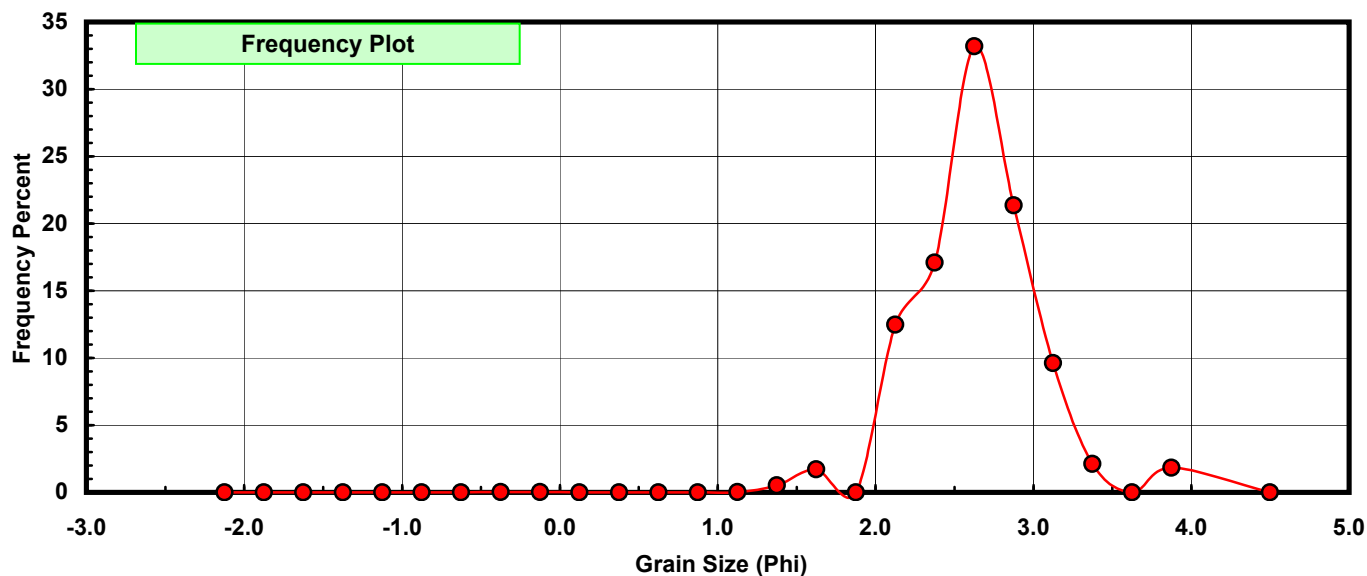
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.001	0.027	0.027
0.00	-0.125	0.001	0.027	0.054
0.25	0.125	0.000	0.000	0.054
0.50	0.375	0.000	0.000	0.054
0.75	0.625	0.000	0.000	0.054
1.00	0.875	0.000	0.000	0.054
1.25	1.125	0.001	0.027	0.082
1.50	1.375	0.019	0.517	0.599
1.75	1.625	0.063	1.716	2.315
2.00	1.875	0.000	0.000	2.315
2.25	2.125	0.458	12.473	14.788
2.50	2.375	0.628	17.102	31.890
2.75	2.625	1.219	33.197	65.087
3.00	2.875	0.784	21.351	86.438
3.25	3.125	0.353	9.613	96.051
3.50	3.375	0.078	2.124	98.175
3.75	3.625	0.000	0.000	98.175
4.00	3.875	0.067	1.825	100.000
5.00	4.500	0.000	0.000	100.000

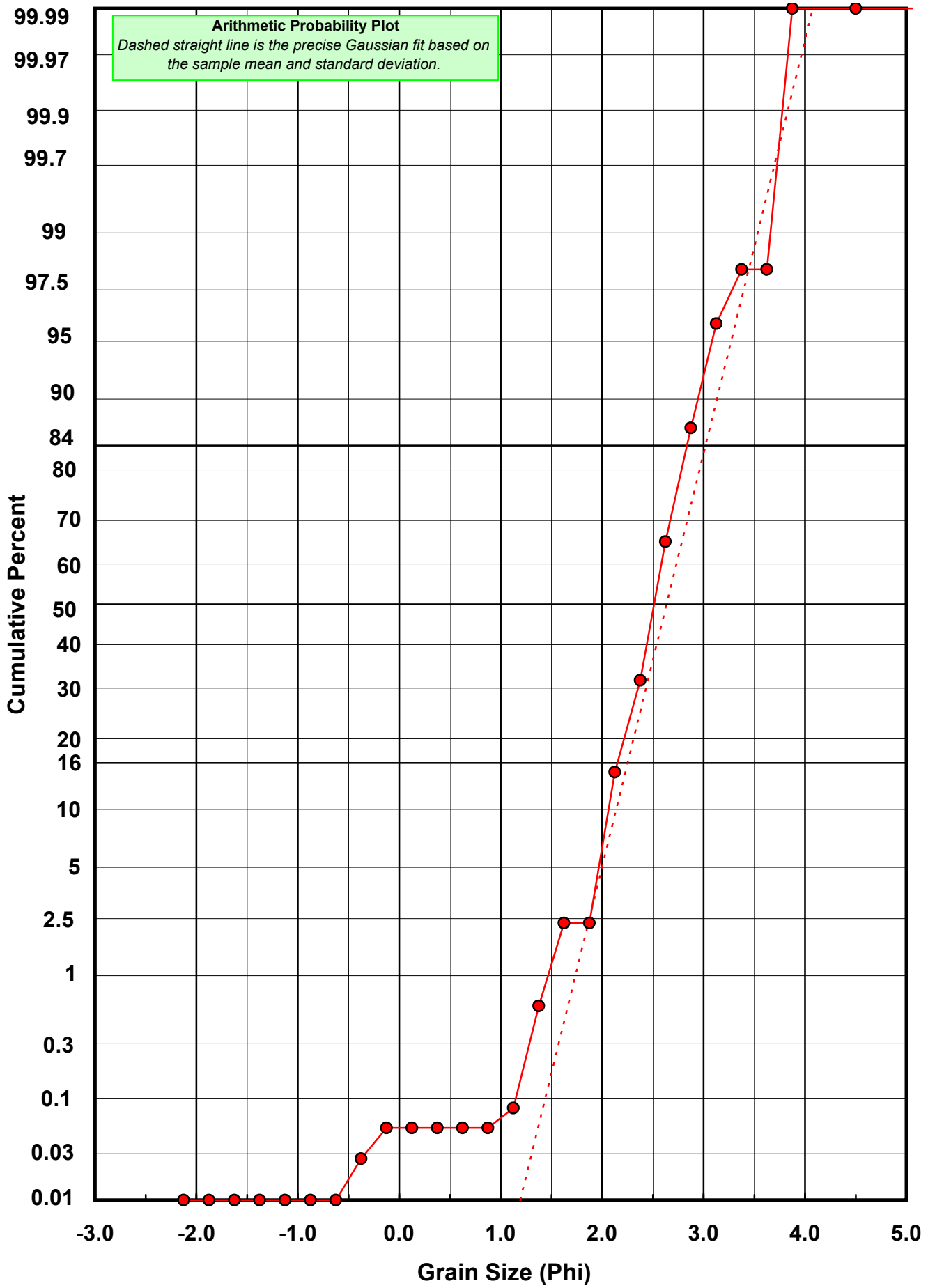
Statistical Results			
Mean:	2.6345	phi	(0.161 mm)
Standard Dev:	0.3873	phi-units	(0.7646 mm)
Skewness:	-0.0649	dimensionless	
Kurtosis:	6.0209	dimensionless	
5th Moment:	-10.3951	dimensionless	
6th Moment:	129.8845	dimensionless	
RARD *	0.1470	dimensionless	
Median	2.5114	phi	(0.1754 mm)

\* 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 Calculation Sheets	
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)





# Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-03-BB

Total Digested Mass: 78.721 grams

% Silica: 96.0 %

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-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	0.001	0.001	0.001
-0.25	-0.375	0.000	0.000	0.001
0.00	-0.125	0.001	0.001	0.003
0.25	0.125	0.001	0.001	0.004
0.50	0.375	0.018	0.023	0.027
0.75	0.625	0.003	0.004	0.030
1.00	0.875	0.015	0.019	0.050
1.25	1.125	0.051	0.065	0.114
1.50	1.375	0.248	0.315	0.429
1.75	1.625	1.361	1.729	2.158
2.00	1.875	5.263	6.686	8.844
2.25	2.125	12.503	15.883	24.727
2.50	2.375	24.018	30.510	55.237
2.75	2.625	23.661	30.057	85.294
3.00	2.875	7.847	9.968	95.262
3.25	3.125	1.670	2.121	97.383
3.50	3.375	0.946	1.202	98.585
3.75	3.625	0.803	1.020	99.605
4.00	3.875	0.311	0.395	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.4556	phi	(0.1823 mm)
Standard Dev:	0.3604	phi-units	(0.779 mm)
Skewness:	0.3015	dimensionless	
Kurtosis:	5.0037	dimensionless	
5th Moment:	3.4145	dimensionless	
6th Moment:	57.6774	dimensionless	
RARD *	0.1468	dimensionless	
Median	2.3321	phi	(0.1986 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 Calculation Sheets
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)

