

**Onshore Grab Sample**

**Sample:** SJ-33-BB  
**Sample Taken By:** J. Ladner  
**Sample Collected On:** 12/1/03  
**Splits?** N/A

**County:** St. Johns  
**Latitude:** 29° 48' 25.7"  
**Longitude:** 81° 15' 40.7"  
**Datum:** WGS 84  
**Surf. Elev:** N/A  
**Datum:** N/A

**Fine Data Summary**

Total Sample Weight 70.497 grams  
Total Fines in Sample 0.270 grams  
Total Percent Fines 0.38 %

**Dry Sieving Summary**

Total Sample Weight 70.253 grams  
Total Digested Weight 68.902 grams  
Total Carbonate Weight 1.351 grams  
Total Silica % 98.08 %  
Total Carbonate % 1.92 %  
Carbonate/Silica Ratio 0.020

**General Comments:**

None

**Description**

Worked By: M. Lachance

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-33-BB

Total Sample Mass: 70.253 grams

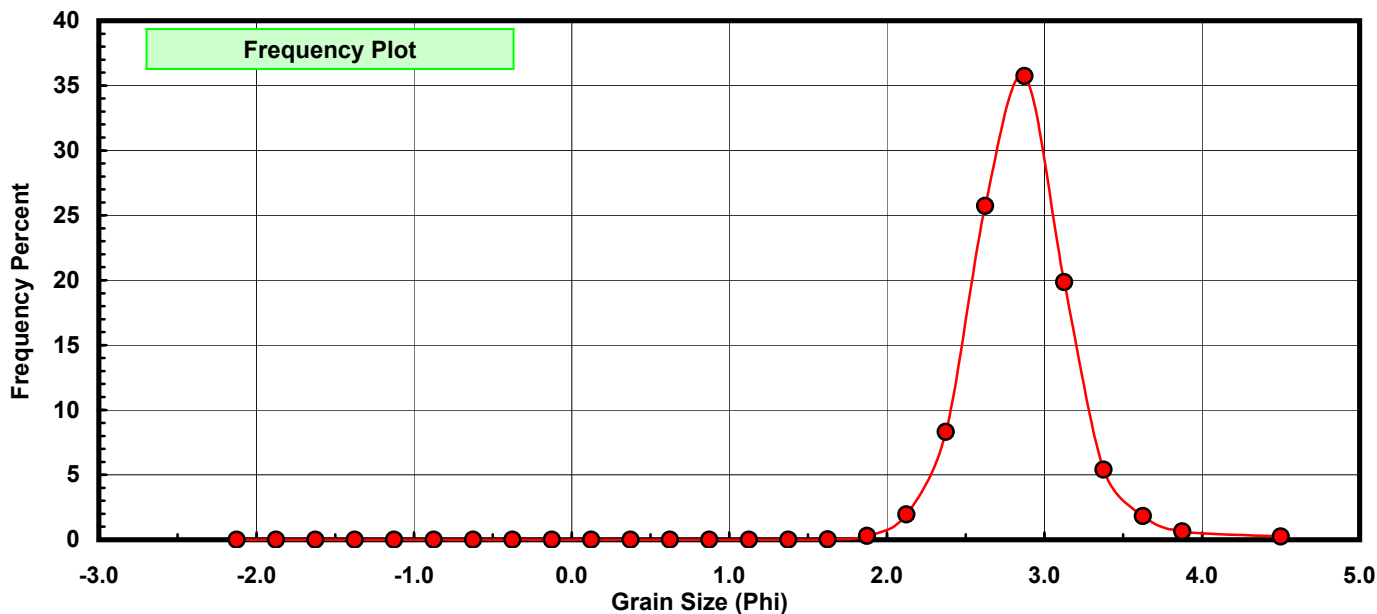
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	0.000
0.00	-0.125	0.001	0.001	0.001
0.25	0.125	0.002	0.003	0.004
0.50	0.375	0.004	0.006	0.010
0.75	0.625	0.001	0.001	0.011
1.00	0.875	0.005	0.007	0.019
1.25	1.125	0.006	0.009	0.027
1.50	1.375	0.001	0.001	0.028
1.75	1.625	0.010	0.014	0.043
2.00	1.875	0.213	0.303	0.346
2.25	2.125	1.367	1.946	2.292
2.50	2.375	5.832	8.301	10.593
2.75	2.625	18.062	25.710	36.303
3.00	2.875	25.107	35.738	72.041
3.25	3.125	13.955	19.864	91.905
3.50	3.375	3.788	5.392	97.297
3.75	3.625	1.283	1.826	99.123
4.00	3.875	0.447	0.636	99.759
5.00	4.500	0.169	0.241	100.000

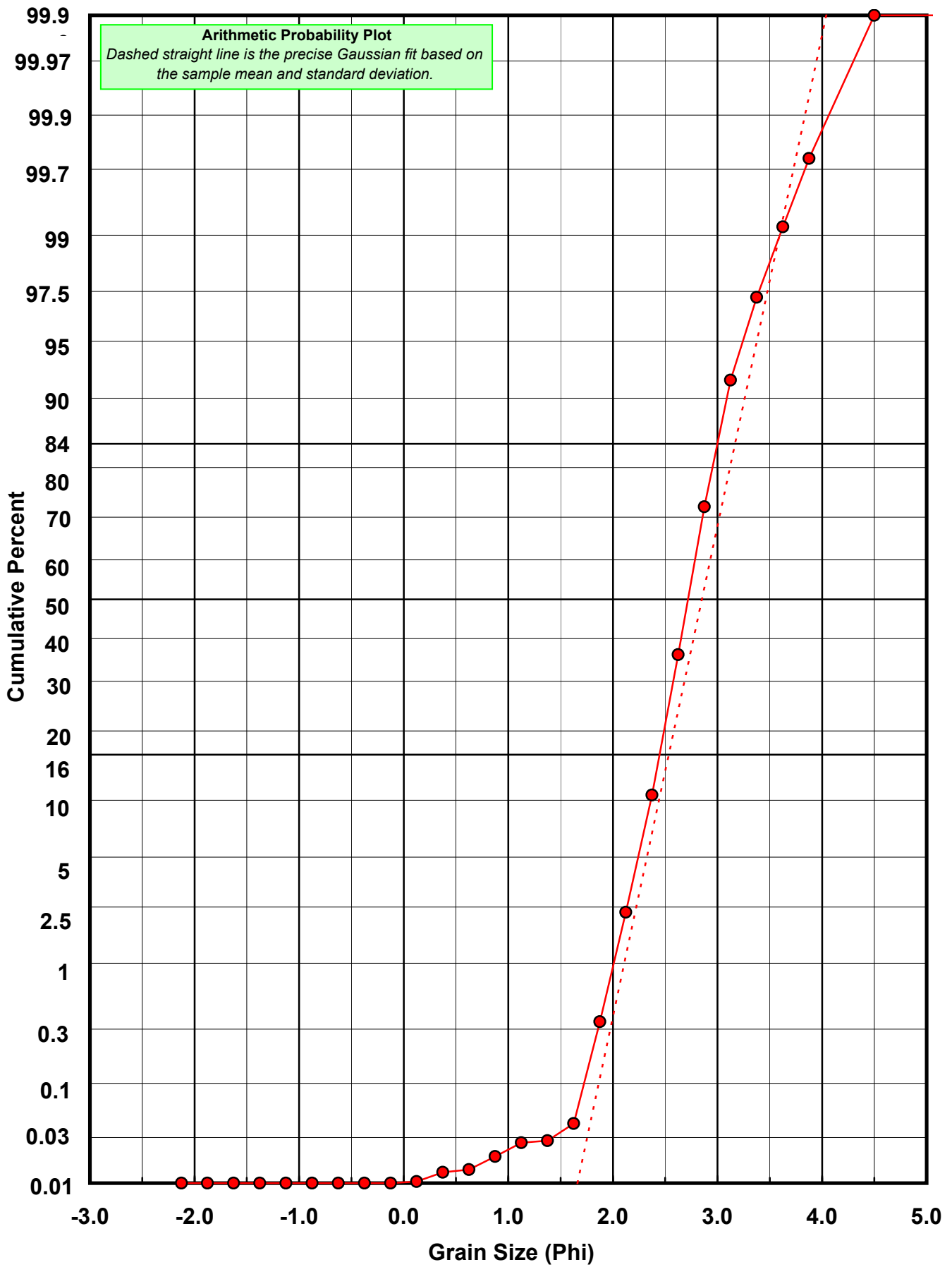
Statistical Results			
Mean:	2.8514	phi	(0.1386 mm)
Standard Dev:	0.3196	phi-units	(0.8013 mm)
Skewness:	0.3841	dimensionless	
Kurtosis:	5.5416	dimensionless	
5th Moment:	5.3144	dimensionless	
6th Moment:	105.4526	dimensionless	
RARD *	0.1121	dimensionless	
Median	2.7208	phi	(0.1517 mm)

\* 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-33-BB

Total Carbonate Mass: 2.549 grams

% Carbonate: 1.9 %

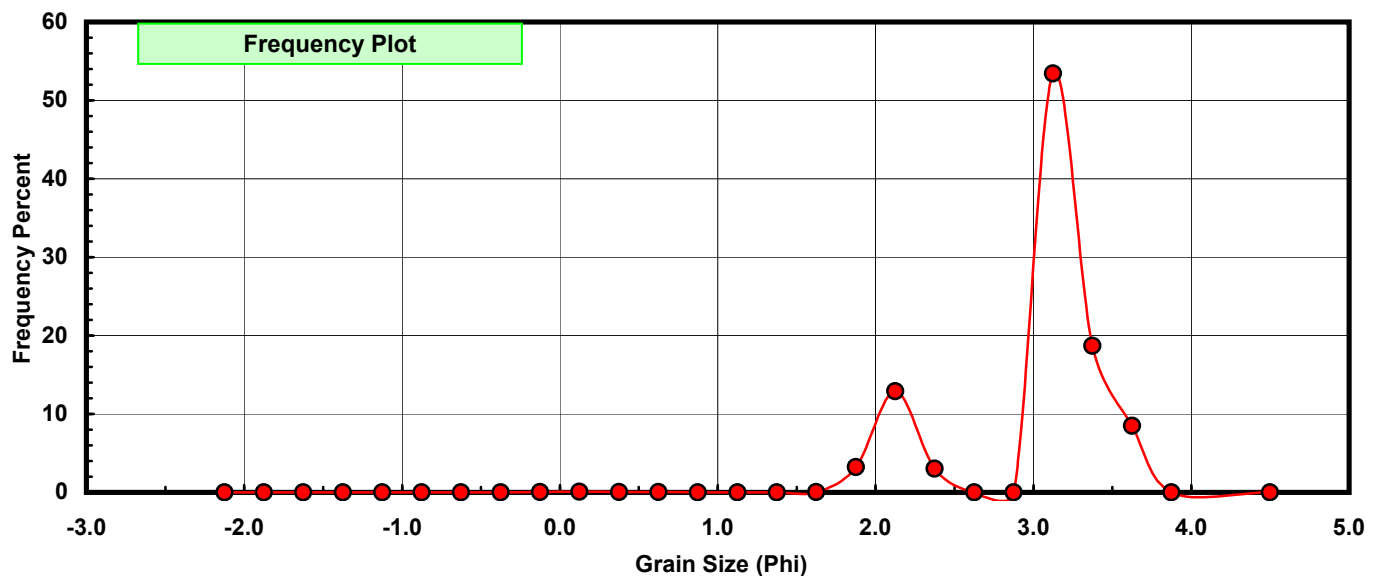
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	0.000
0.00	-0.125	0.001	0.039	0.039
0.25	0.125	0.002	0.078	0.118
0.50	0.375	0.001	0.039	0.157
0.75	0.625	0.001	0.039	0.196
1.00	0.875	0.000	0.000	0.196
1.25	1.125	0.000	0.000	0.196
1.50	1.375	0.000	0.000	0.196
1.75	1.625	0.001	0.039	0.235
2.00	1.875	0.082	3.217	3.452
2.25	2.125	0.329	12.907	16.359
2.50	2.375	0.077	3.021	19.380
2.75	2.625	0.000	0.000	19.380
3.00	2.875	0.000	0.000	19.380
3.25	3.125	1.362	53.433	72.813
3.50	3.375	0.477	18.713	91.526
3.75	3.625	0.216	8.474	100.000
4.00	3.875	0.000	0.000	100.000
5.00	4.500	0.000	0.000	100.000

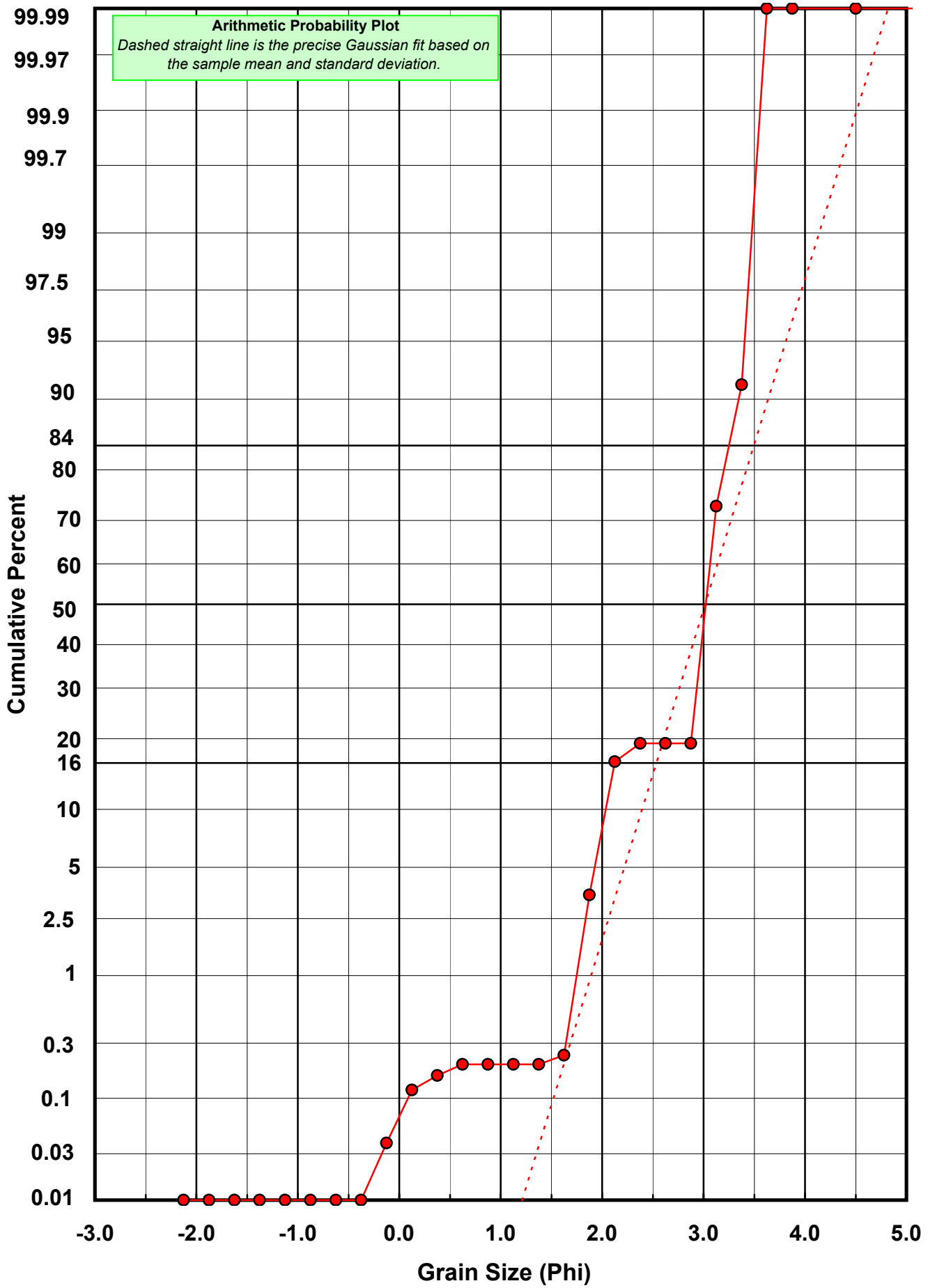
Statistical Results			
Mean:	3.0159	phi	(0.1236 mm)
Standard Dev:	0.4846	phi-units	(0.7147 mm)
Skewness:	-1.4348	dimensionless	
Kurtosis:	5.1168	dimensionless	
5th Moment:	-18.3813	dimensionless	
6th Moment:	91.6188	dimensionless	
RARD *	0.1607	dimensionless	
Median	3.0183	phi	(0.1234 mm)

\* 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-33-BB

Total Digested Mass: 68.743 grams

% Silica: 98.1 %

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	0.000	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	0.003	0.004	0.004
0.75	0.625	0.000	0.000	0.004
1.00	0.875	0.006	0.009	0.013
1.25	1.125	0.006	0.009	0.022
1.50	1.375	0.001	0.001	0.023
1.75	1.625	0.009	0.013	0.036
2.00	1.875	0.131	0.191	0.227
2.25	2.125	1.038	1.510	1.737
2.50	2.375	5.755	8.372	10.109
2.75	2.625	19.203	27.934	38.043
3.00	2.875	25.167	36.610	74.653
3.25	3.125	12.593	18.319	92.972
3.50	3.375	3.311	4.816	97.789
3.75	3.625	1.067	1.552	99.341
4.00	3.875	0.453	0.659	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.8376	phi	(0.1399 mm)
Standard Dev:	0.2977	phi-units	(0.8136 mm)
Skewness:	0.2548	dimensionless	
Kurtosis:	4.2391	dimensionless	
5th Moment:	0.2930	dimensionless	
6th Moment:	51.0405	dimensionless	
RARD *	0.1049	dimensionless	
Median	2.7066	phi	(0.1532 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)

