

**Onshore Grab Sample**

**Sample:** SJ-41-BB  
**Sample Taken By:** J. Ladner  
**Sample Collected On:** 12/2/03  
**Splits?** N/A

**County:** St. Johns  
**Latitude:** 29° 42' 28.7"  
**Longitude:** 81° 13' 41.4"  
**Datum:** WGS 84  
**Surf. Elev:** N/A  
**Datum:** N/A

**Fine Data Summary**

Total Sample Weight 52.937 grams  
Total Fines in Sample 0.089 grams  
Total Percent Fines 0.17 %

**Dry Sieving Summary**

Total Sample Weight 52.772 grams  
Total Digested Weight 51.649 grams  
Total Carbonate Weight 1.123 grams  
Total Silica % 97.87 %  
Total Carbonate % 2.13 %  
Carbonate/Silica Ratio 0.022

**General Comments:**

None

**Description**

Worked By: M. Lachance

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-41-BB

Total Sample Mass: 52.772 grams

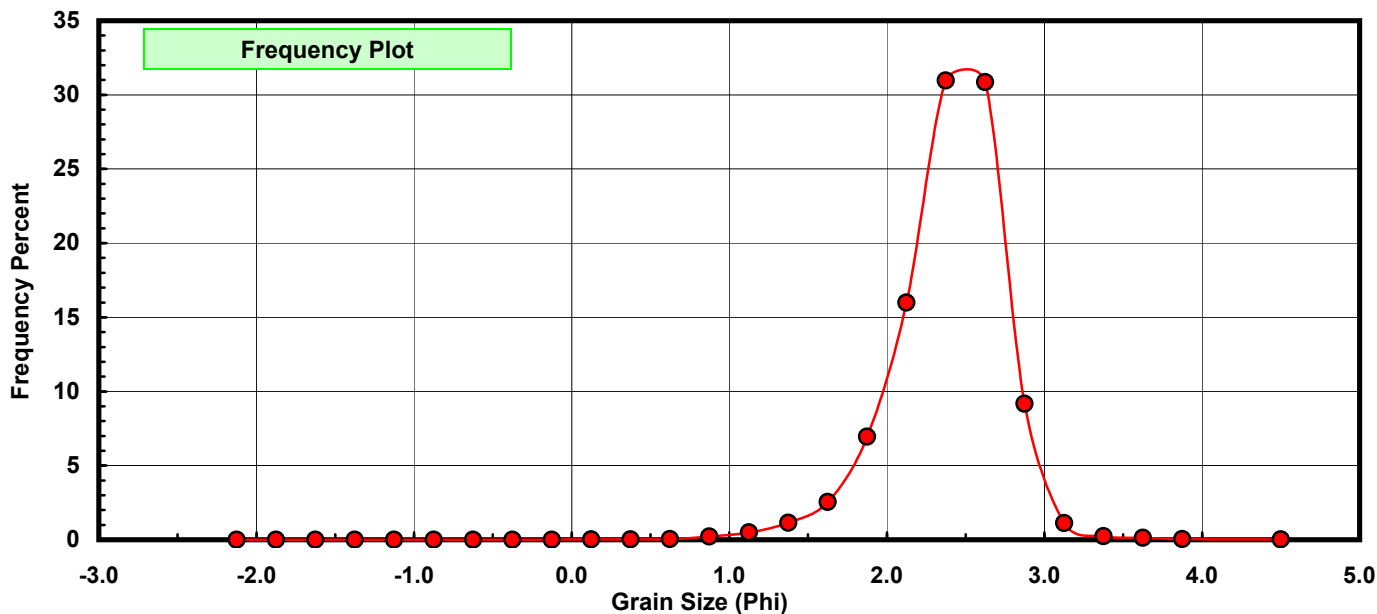
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.001	0.002	0.002
0.00	-0.125	0.004	0.008	0.009
0.25	0.125	0.010	0.019	0.028
0.50	0.375	0.014	0.027	0.055
0.75	0.625	0.021	0.040	0.095
1.00	0.875	0.114	0.216	0.311
1.25	1.125	0.264	0.500	0.811
1.50	1.375	0.602	1.141	1.952
1.75	1.625	1.346	2.551	4.502
2.00	1.875	3.671	6.956	11.459
2.25	2.125	8.442	15.997	27.456
2.50	2.375	16.345	30.973	58.429
2.75	2.625	16.282	30.853	89.282
3.00	2.875	4.836	9.164	98.446
3.25	3.125	0.592	1.122	99.568
3.50	3.375	0.128	0.243	99.811
3.75	3.625	0.071	0.135	99.945
4.00	3.875	0.023	0.044	99.989
5.00	4.500	0.006	0.011	100.000

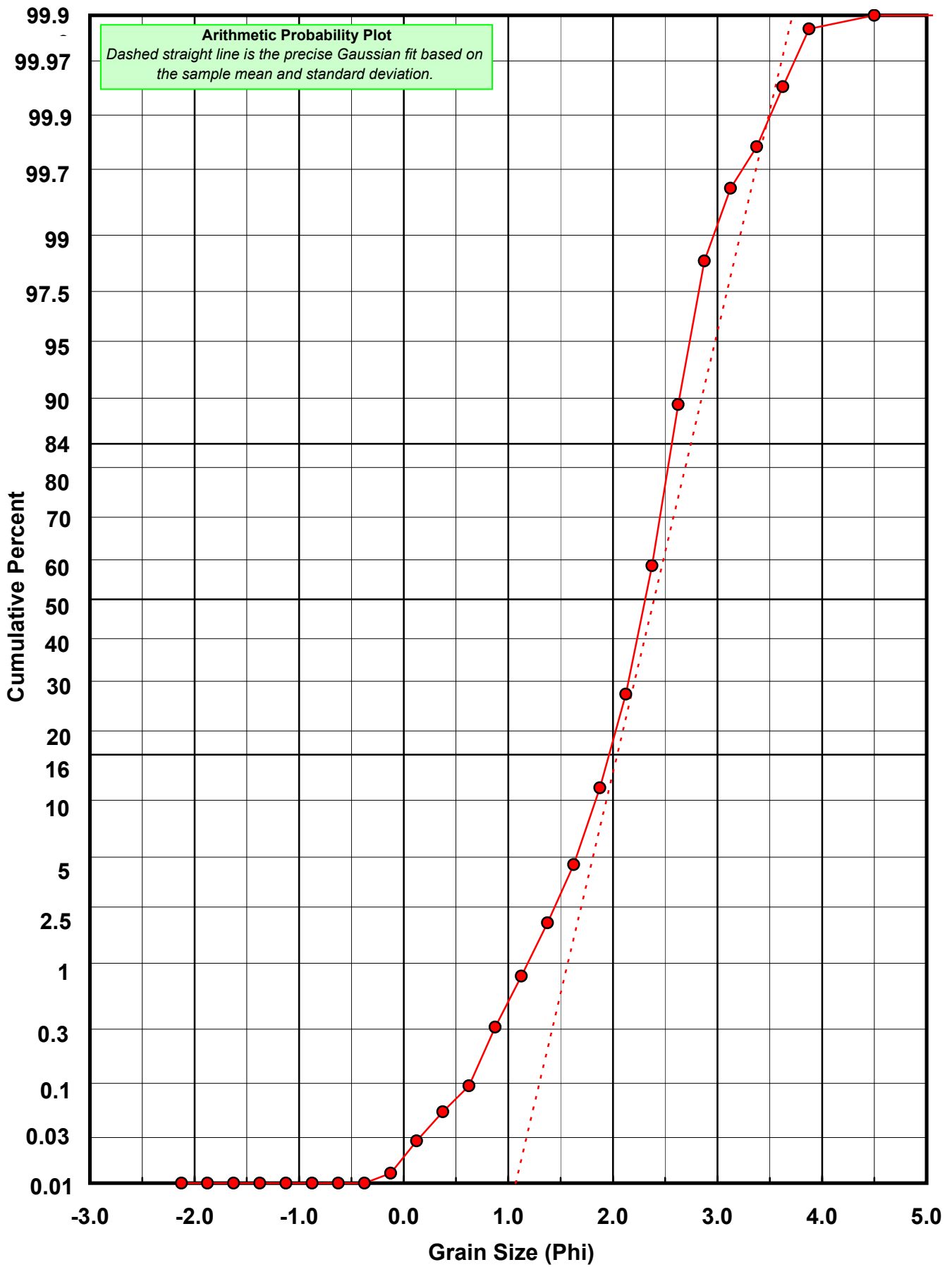
Statistical Results			
Mean:	2.3947	phi	(0.1902 mm)
Standard Dev:	0.3553	phi-units	(0.7817 mm)
Skewness:	-0.8436	dimensionless	
Kurtosis:	5.6204	dimensionless	
5th Moment:	-13.6364	dimensionless	
6th Moment:	88.9298	dimensionless	
RARD *	0.1484	dimensionless	
Median	2.3070	phi	(0.2021 mm)

\* 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-41-BB

Total Carbonate Mass: 1.570 grams

% Carbonate: 2.1 %

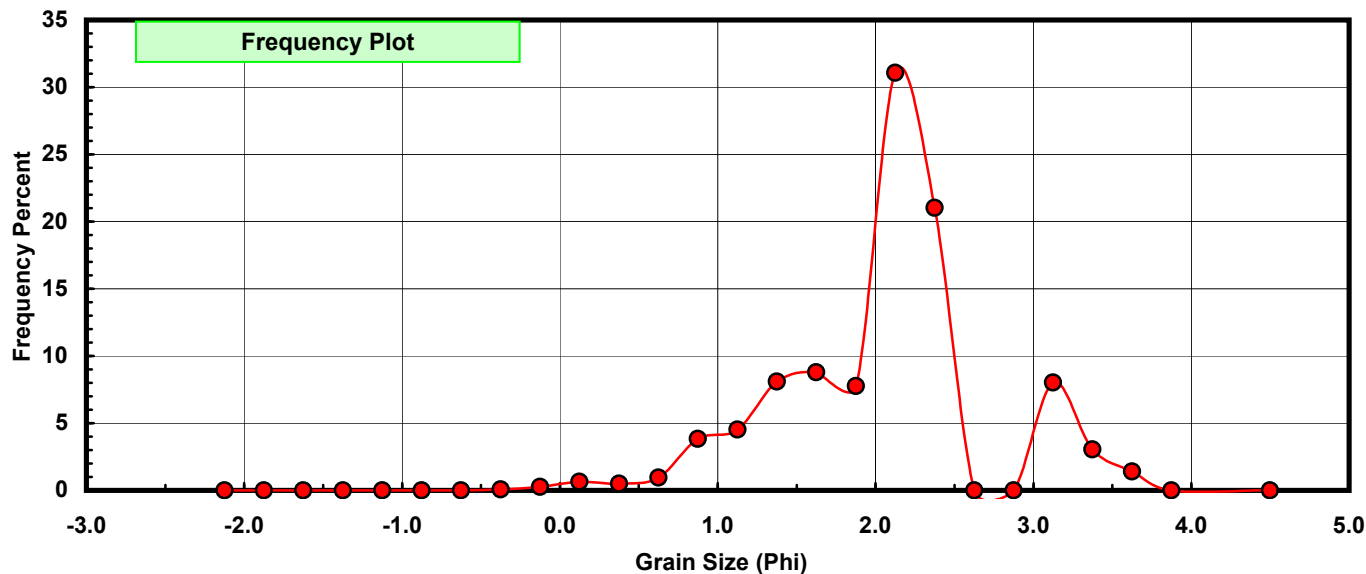
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.001	0.064	0.064
0.00	-0.125	0.004	0.255	0.318
0.25	0.125	0.010	0.637	0.955
0.50	0.375	0.008	0.510	1.465
0.75	0.625	0.015	0.955	2.420
1.00	0.875	0.060	3.822	6.242
1.25	1.125	0.071	4.522	10.764
1.50	1.375	0.127	8.089	18.854
1.75	1.625	0.138	8.790	27.643
2.00	1.875	0.122	7.771	35.414
2.25	2.125	0.488	31.083	66.497
2.50	2.375	0.330	21.019	87.516
2.75	2.625	0.000	0.000	87.516
3.00	2.875	0.000	0.000	87.516
3.25	3.125	0.126	8.025	95.541
3.50	3.375	0.048	3.057	98.599
3.75	3.625	0.022	1.401	100.000
4.00	3.875	0.000	0.000	100.000
5.00	4.500	0.000	0.000	100.000

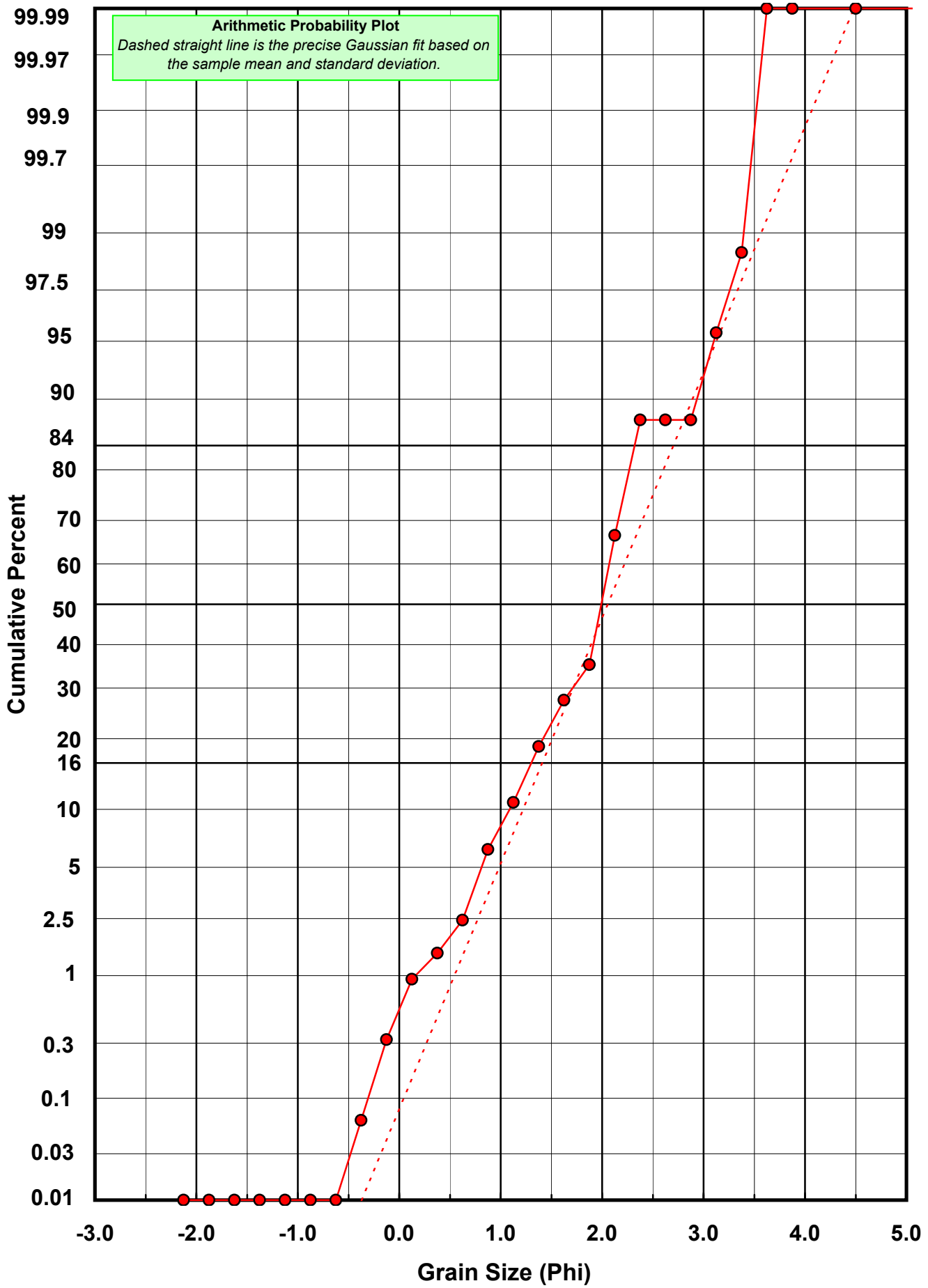
Statistical Results			
Mean:	2.0567	phi	(0.2404 mm)
Standard Dev:	0.6517	phi-units	(0.6365 mm)
Skewness:	-0.1364	dimensionless	
Kurtosis:	3.6726	dimensionless	
5th Moment:	-2.0700	dimensionless	
6th Moment:	20.4319	dimensionless	
RARD *	0.3169	dimensionless	
Median	1.9923	phi	(0.2513 mm)

\* 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-41-BB

Total Digested Mass: 51.640 grams

% Silica: 97.9 %

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	0.000	0.000	0.000
0.25	0.125	0.000	0.000	0.000
0.50	0.375	0.006	0.012	0.012
0.75	0.625	0.006	0.012	0.023
1.00	0.875	0.054	0.105	0.128
1.25	1.125	0.193	0.374	0.502
1.50	1.375	0.475	0.920	1.421
1.75	1.625	1.208	2.339	3.761
2.00	1.875	3.549	6.873	10.633
2.25	2.125	7.954	15.403	26.036
2.50	2.375	16.015	31.013	57.049
2.75	2.625	16.402	31.762	88.811
3.00	2.875	5.160	9.992	98.803
3.25	3.125	0.466	0.902	99.706
3.50	3.375	0.080	0.155	99.861
3.75	3.625	0.049	0.095	99.955
4.00	3.875	0.023	0.045	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.4082	phi	(0.1884 mm)
Standard Dev:	0.3365	phi-units	(0.792 mm)
Skewness:	-0.7333	dimensionless	
Kurtosis:	4.6334	dimensionless	
5th Moment:	-8.9953	dimensionless	
6th Moment:	50.2853	dimensionless	
RARD *	0.1397	dimensionless	
Median	2.3182	phi	(0.2005 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)

