

**Onshore Grab Sample**

**Sample:** SJ-06-SS  
**Sample Taken By:** J. Ladner  
**Sample Collected On:** 12/2/03  
**Splits?** N/A

**County:** St. Johns  
**Latitude:** 30° 11' 5.7"  
**Longitude:** 81° 21' 5.6"  
**Datum:** WGS 84  
**Surf. Elev:** N/A  
**Datum:** N/A

**Fine Data Summary**

Total Sample Weight 78.253 grams  
Total Fines in Sample 0.970 grams  
Total Percent Fines 1.22 %

**Dry Sieving Summary**

Total Sample Weight 77.176 grams  
Total Digested Weight 75.243 grams  
Total Carbonate Weight 1.933 grams  
Total Silica % 97.50 %  
Total Carbonate % 2.50 %  
Carbonate/Silica Ratio 0.026

**General Comments:**

None

**Description**

Worked By: M. Lachance

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-06-SS

Total Sample Mass: 77.176 grams

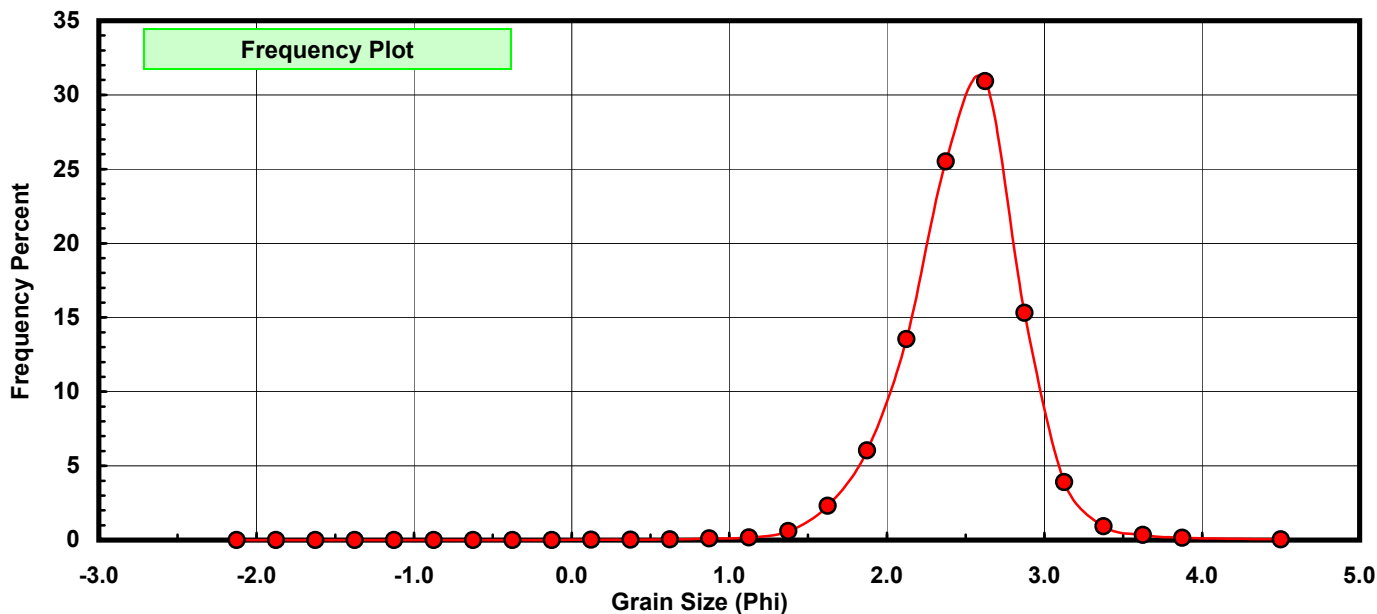
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.005	0.006	0.006
-0.25	-0.375	0.004	0.005	0.012
0.00	-0.125	0.003	0.004	0.016
0.25	0.125	0.011	0.014	0.030
0.50	0.375	0.024	0.031	0.061
0.75	0.625	0.033	0.043	0.104
1.00	0.875	0.078	0.101	0.205
1.25	1.125	0.138	0.179	0.384
1.50	1.375	0.473	0.613	0.996
1.75	1.625	1.774	2.299	3.295
2.00	1.875	4.664	6.043	9.338
2.25	2.125	10.456	13.548	22.887
2.50	2.375	19.689	25.512	48.398
2.75	2.625	23.868	30.927	79.325
3.00	2.875	11.815	15.309	94.634
3.25	3.125	3.008	3.898	98.532
3.50	3.375	0.719	0.932	99.464
3.75	3.625	0.271	0.351	99.815
4.00	3.875	0.117	0.152	99.966
5.00	4.500	0.026	0.034	100.000

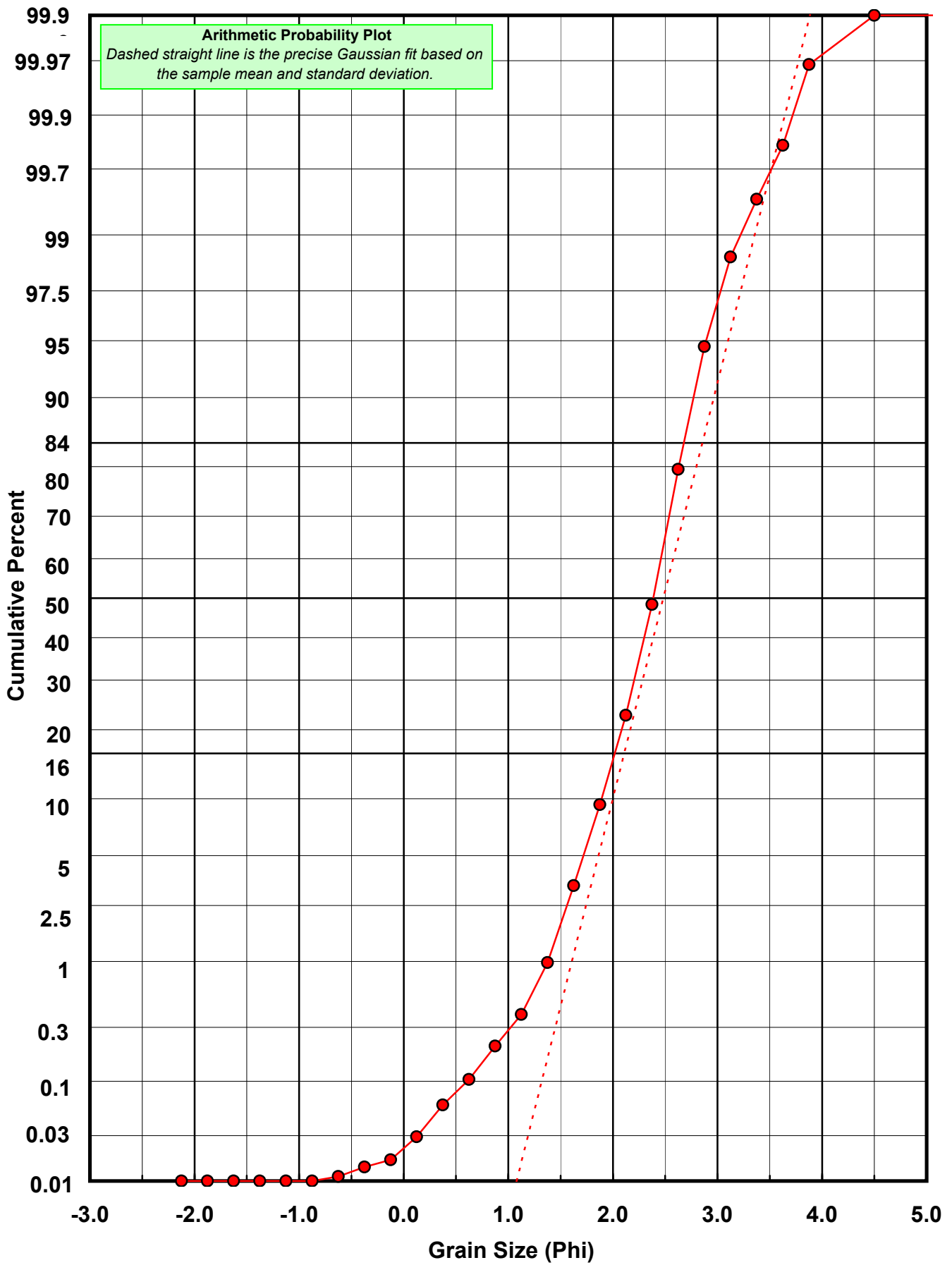
Statistical Results			
Mean:	2.4815	phi	(0.1791 mm)
Standard Dev:	0.3768	phi-units	(0.7702 mm)
Skewness:	-0.4406	dimensionless	
Kurtosis:	5.2960	dimensionless	
5th Moment:	-9.9109	dimensionless	
6th Moment:	95.4599	dimensionless	
RARD *	0.1518	dimensionless	
Median	2.3879	phi	(0.1911 mm)

\* 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-06-SS

Total Carbonate Mass: 2.915 grams

% Carbonate: 2.5 %

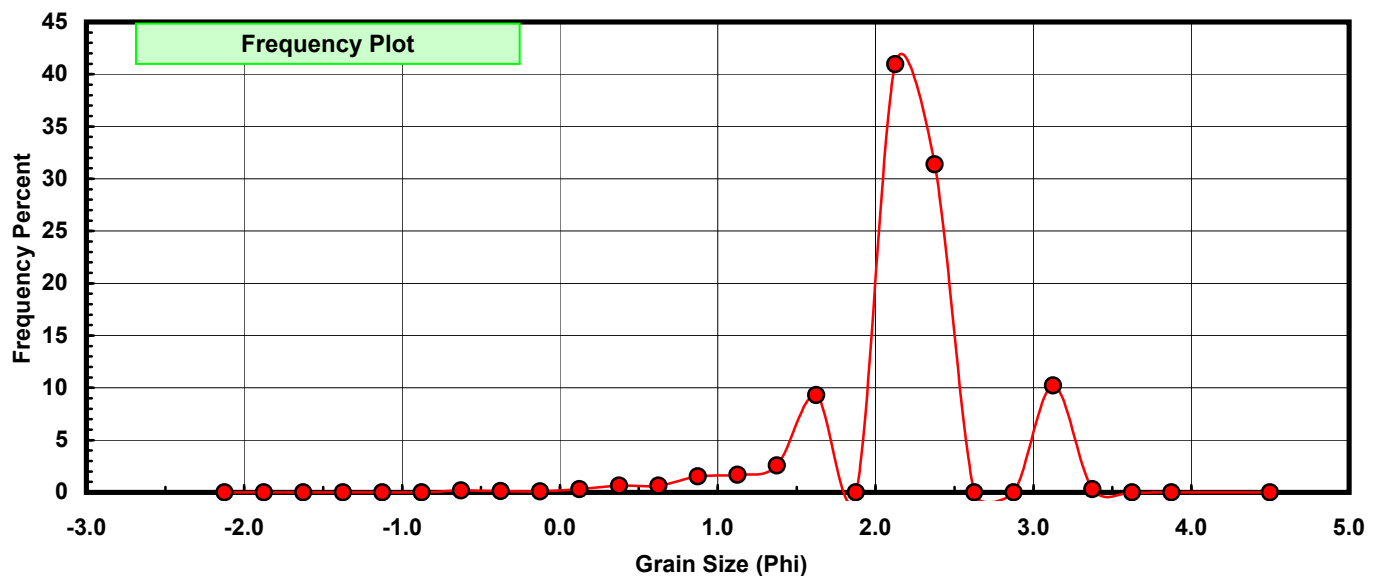
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.005	0.172	0.172
-0.25	-0.375	0.004	0.137	0.309
0.00	-0.125	0.003	0.103	0.412
0.25	0.125	0.009	0.309	0.720
0.50	0.375	0.019	0.652	1.372
0.75	0.625	0.019	0.652	2.024
1.00	0.875	0.045	1.544	3.568
1.25	1.125	0.049	1.681	5.249
1.50	1.375	0.075	2.573	7.822
1.75	1.625	0.271	9.297	17.118
2.00	1.875	0.000	0.000	17.118
2.25	2.125	1.194	40.961	58.079
2.50	2.375	0.915	31.389	89.468
2.75	2.625	0.000	0.000	89.468
3.00	2.875	0.000	0.000	89.468
3.25	3.125	0.298	10.223	99.691
3.50	3.375	0.009	0.309	100.000
3.75	3.625	0.000	0.000	100.000
4.00	3.875	0.000	0.000	100.000
5.00	4.500	0.000	0.000	100.000

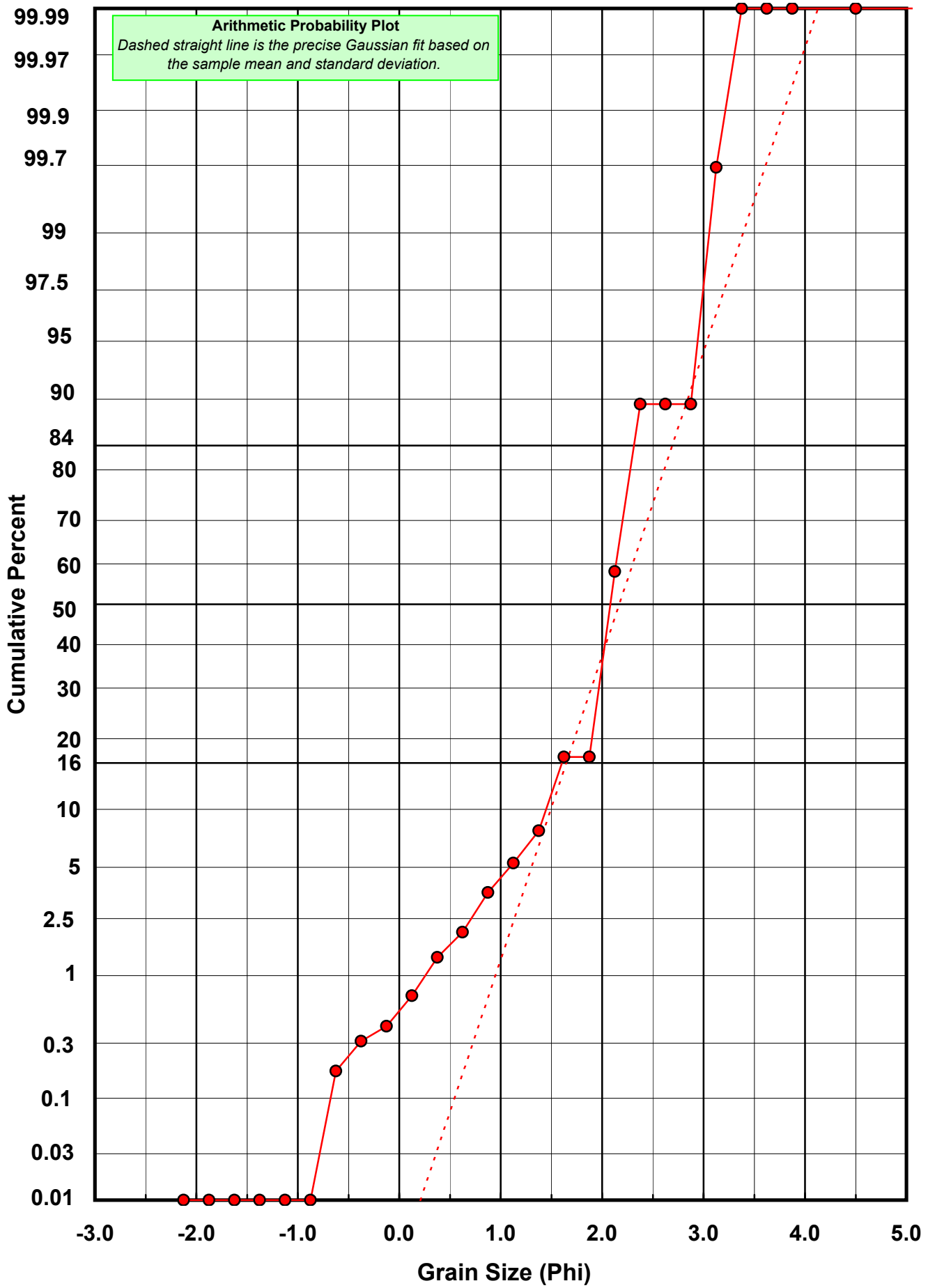
Statistical Results			
Mean:	2.1699	phi	(0.2222 mm)
Standard Dev:	0.5263	phi-units	(0.6943 mm)
Skewness:	-0.9883	dimensionless	
Kurtosis:	6.8215	dimensionless	
5th Moment:	-19.6580	dimensionless	
6th Moment:	97.0432	dimensionless	
RARD *	0.2426	dimensionless	
Median	2.0757	phi	(0.2372 mm)

\* 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-06-SS

Total Digested Mass: 75.217 grams

% Silica: 97.5 %

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	0.002	0.003	0.003
-0.50	-0.625	0.000	0.000	0.003
-0.25	-0.375	0.000	0.000	0.003
0.00	-0.125	0.000	0.000	0.003
0.25	0.125	0.002	0.003	0.005
0.50	0.375	0.005	0.007	0.012
0.75	0.625	0.014	0.019	0.031
1.00	0.875	0.033	0.044	0.074
1.25	1.125	0.089	0.118	0.193
1.50	1.375	0.398	0.529	0.722
1.75	1.625	1.503	1.998	2.720
2.00	1.875	4.731	6.290	9.010
2.25	2.125	9.262	12.314	21.324
2.50	2.375	18.774	24.960	46.283
2.75	2.625	24.361	32.388	78.671
3.00	2.875	12.233	16.264	94.935
3.25	3.125	2.710	3.603	98.538
3.50	3.375	0.710	0.944	99.482
3.75	3.625	0.271	0.360	99.842
4.00	3.875	0.119	0.158	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.4954	phi	(0.1773 mm)
Standard Dev:	0.3621	phi-units	(0.7781 mm)
Skewness:	-0.3436	dimensionless	
Kurtosis:	4.3030	dimensionless	
5th Moment:	-5.3563	dimensionless	
6th Moment:	54.9036	dimensionless	
RARD *	0.1451	dimensionless	
Median	2.4037	phi	(0.189 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)

