

**Onshore Grab Sample**

**Sample:** SJ-42-SS  
**Sample Taken By:** J. Ladner  
**Sample Collected On:** 12/2/03  
**Splits?** N/A

**County:** St. Johns  
**Latitude:** 29° 41' 44.7"  
**Longitude:** 81° 13' 20.0"  
**Datum:** WGS 84  
**Surf. Elev:** N/A  
**Datum:** N/A

**Fine Data Summary**

Total Sample Weight 64.57 grams  
Total Fines in Sample 0.735 grams  
Total Percent Fines 1.13 %

**Dry Sieving Summary**

Total Sample Weight 63.538 grams  
Total Digested Weight 61.604 grams  
Total Carbonate Weight 1.934 grams  
Total Silica % 96.96 %  
Total Carbonate % 3.04 %  
Carbonate/Silica Ratio 0.031

**General Comments:**

None

**Description**

Worked By: M. Lachance

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-42-SS

Total Sample Mass: 63.538 grams

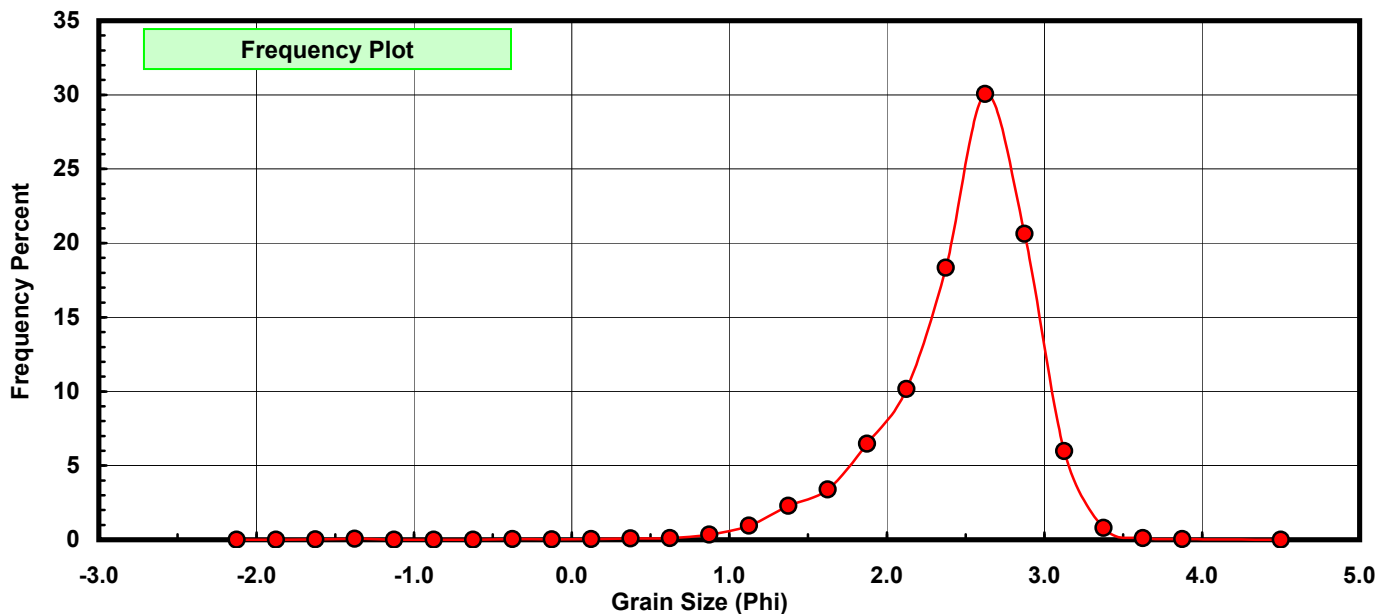
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.019	0.030	0.030
-1.25	-1.375	0.045	0.071	0.101
-1.00	-1.125	0.000	0.000	0.101
-0.75	-0.875	0.003	0.005	0.105
-0.50	-0.625	0.001	0.002	0.107
-0.25	-0.375	0.021	0.033	0.140
0.00	-0.125	0.019	0.030	0.170
0.25	0.125	0.027	0.042	0.212
0.50	0.375	0.058	0.091	0.304
0.75	0.625	0.069	0.109	0.412
1.00	0.875	0.222	0.349	0.762
1.25	1.125	0.610	0.960	1.722
1.50	1.375	1.456	2.292	4.013
1.75	1.625	2.159	3.398	7.411
2.00	1.875	4.112	6.472	13.883
2.25	2.125	6.458	10.164	24.047
2.50	2.375	11.651	18.337	42.384
2.75	2.625	19.104	30.067	72.451
3.00	2.875	13.106	20.627	93.078
3.25	3.125	3.798	5.978	99.056
3.50	3.375	0.509	0.801	99.857
3.75	3.625	0.064	0.101	99.958
4.00	3.875	0.022	0.035	99.992
5.00	4.500	0.005	0.008	100.000

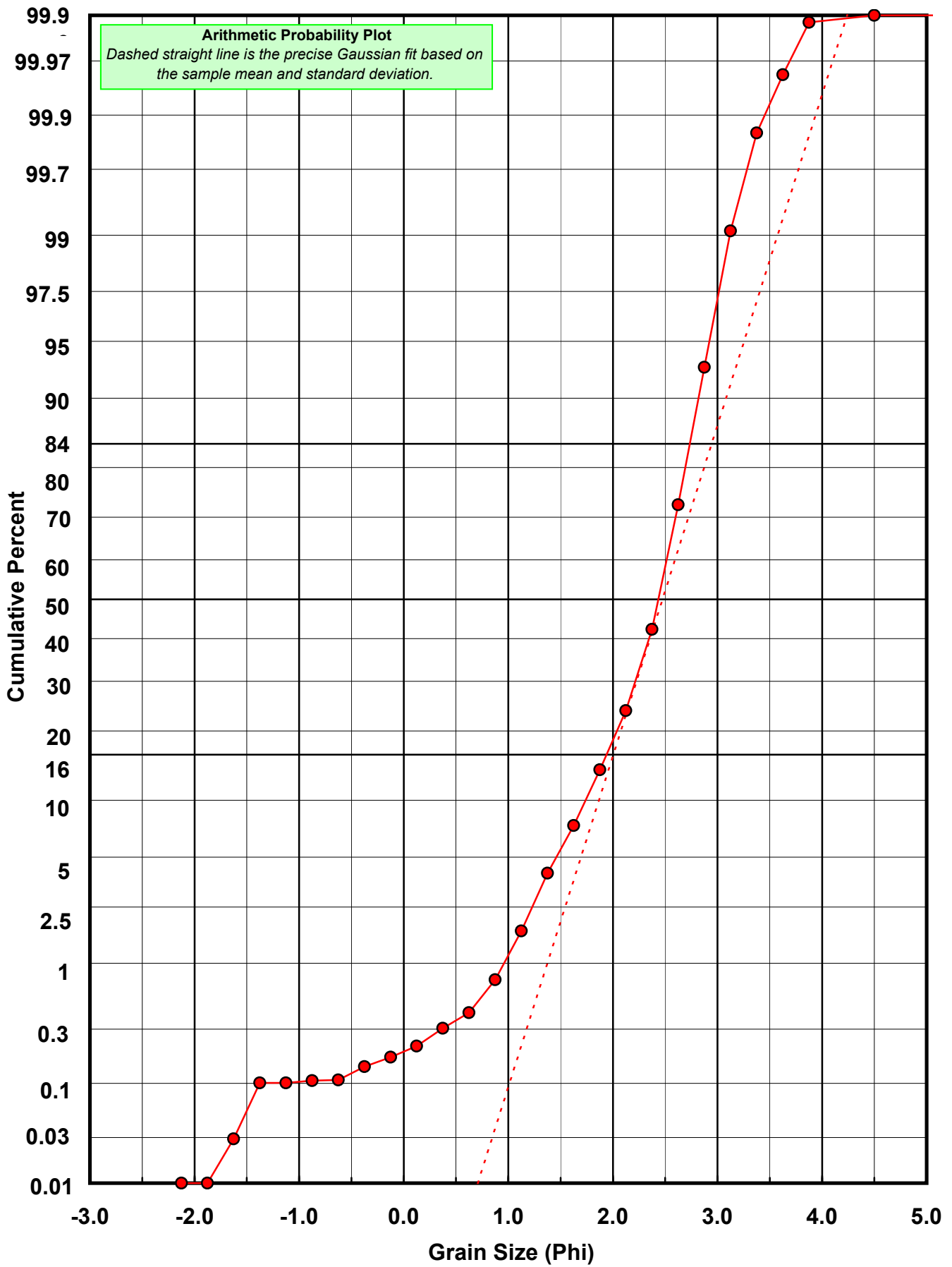
Statistical Results			
Mean:	2.4743	phi	(0.18 mm)
Standard Dev:	0.4740	phi-units	(0.72 mm)
Skewness:	-1.5718	dimensionless	
Kurtosis:	9.4130	dimensionless	
5th Moment:	-54.0954	dimensionless	
6th Moment:	399.3427	dimensionless	
RARD *	0.1916	dimensionless	
Median	2.4383	phi	(0.1845 mm)

\* 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-42-SS

Total Carbonate Mass: 3.144 grams

% Carbonate: 3.0 %

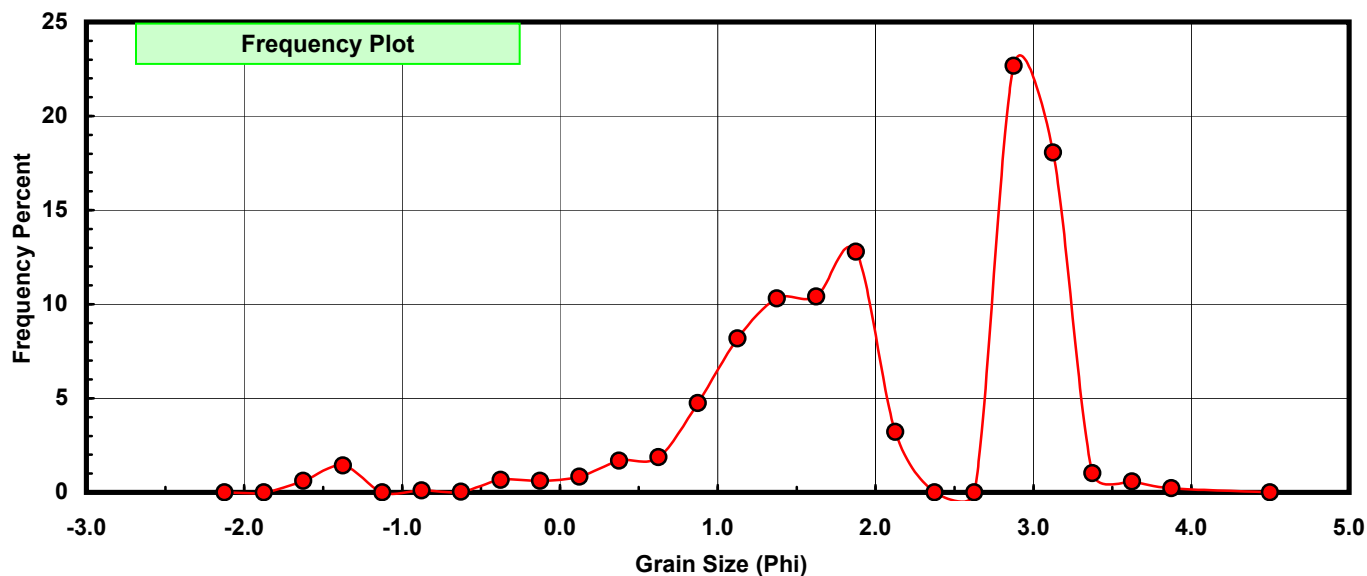
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.019	0.604	0.604
-1.25	-1.375	0.045	1.431	2.036
-1.00	-1.125	0.000	0.000	2.036
-0.75	-0.875	0.003	0.095	2.131
-0.50	-0.625	0.001	0.032	2.163
-0.25	-0.375	0.021	0.668	2.831
0.00	-0.125	0.019	0.604	3.435
0.25	0.125	0.026	0.827	4.262
0.50	0.375	0.053	1.686	5.948
0.75	0.625	0.059	1.877	7.824
1.00	0.875	0.149	4.739	12.564
1.25	1.125	0.257	8.174	20.738
1.50	1.375	0.324	10.305	31.043
1.75	1.625	0.327	10.401	41.444
2.00	1.875	0.402	12.786	54.230
2.25	2.125	0.101	3.212	57.443
2.50	2.375	0.000	0.000	57.443
2.75	2.625	0.000	0.000	57.443
3.00	2.875	0.713	22.678	80.121
3.25	3.125	0.568	18.066	98.187
3.50	3.375	0.032	1.018	99.205
3.75	3.625	0.018	0.573	99.777
4.00	3.875	0.007	0.223	100.000
5.00	4.500	0.000	0.000	100.000

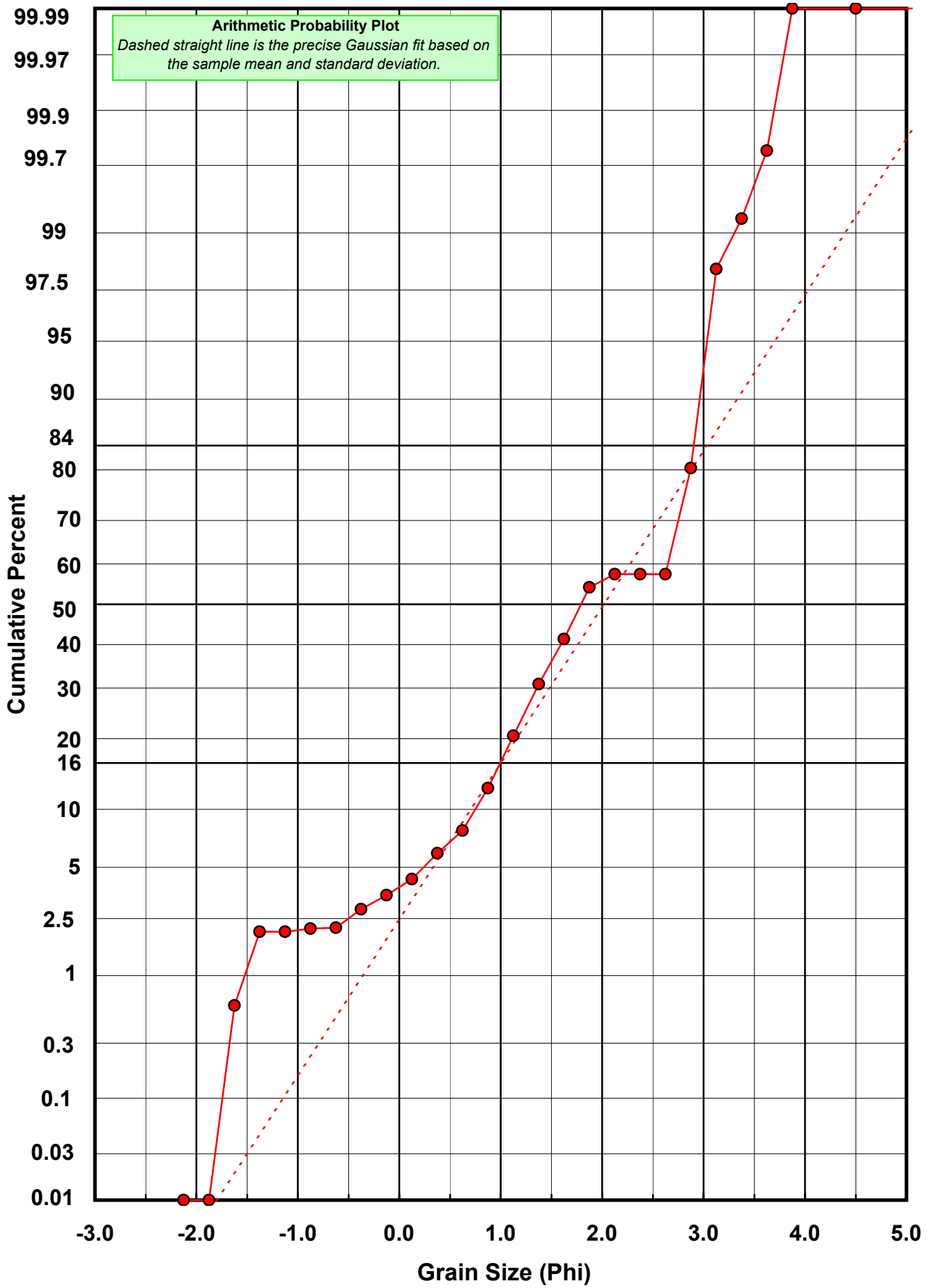
Statistical Results			
Mean:	2.0177	phi	(0.2469 mm)
Standard Dev:	1.0250	phi-units	(0.4914 mm)
Skewness:	-0.8578	dimensionless	
Kurtosis:	3.9269	dimensionless	
5th Moment:	-10.1017	dimensionless	
6th Moment:	34.6045	dimensionless	
RARD *	0.5080	dimensionless	
Median	1.7923	phi	(0.2887 mm)

\* 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-42-SS

Total Digested Mass: 61.597 grams

% Silica: 97.0 %

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	0.000	0.000	0.000
0.00	-0.125	0.000	0.000	0.000
0.25	0.125	0.001	0.002	0.002
0.50	0.375	0.005	0.008	0.010
0.75	0.625	0.010	0.016	0.026
1.00	0.875	0.073	0.119	0.144
1.25	1.125	0.353	0.573	0.718
1.50	1.375	1.132	1.838	2.555
1.75	1.625	1.832	2.974	5.529
2.00	1.875	3.710	6.023	11.553
2.25	2.125	6.357	10.320	21.873
2.50	2.375	12.416	20.157	42.030
2.75	2.625	19.547	31.734	73.763
3.00	2.875	12.393	20.119	93.883
3.25	3.125	3.230	5.244	99.127
3.50	3.375	0.477	0.774	99.901
3.75	3.625	0.046	0.075	99.976
4.00	3.875	0.015	0.024	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.4973	phi	(0.1771 mm)
Standard Dev:	0.4074	phi-units	(0.754 mm)
Skewness:	-0.8484	dimensionless	
Kurtosis:	4.0268	dimensionless	
5th Moment:	-8.1960	dimensionless	
6th Moment:	31.4185	dimensionless	
RARD *	0.1631	dimensionless	
Median	2.4378	phi	(0.1846 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)

