

**Onshore Grab Sample**

**Sample:** SJ-19-SS  
**Sample Taken By:** J. Ladner  
**Sample Collected On:** 12/3/03  
**Splits?** N/A

**County:** St. Johns  
**Latitude:** 30° 00' 13.1"  
**Longitude:** 81° 19' 4.0"  
**Datum:** WGS 84  
**Surf. Elev:** N/A  
**Datum:** N/A

**Fine Data Summary**

Total Sample Weight 82.54 grams  
Total Fines in Sample 0.613 grams  
Total Percent Fines 0.74 %

**Dry Sieving Summary**

Total Sample Weight 81.907 grams  
Total Digested Weight 38.783 grams  
Total Carbonate Weight 43.124 grams  
Total Silica % 47.35 %  
Total Carbonate % 52.65 %  
Carbonate/Silica Ratio 1.112

**General Comments:**

None

**Description**

Worked By: M. Lachance

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-19-SS

Total Sample Mass: 81.907 grams

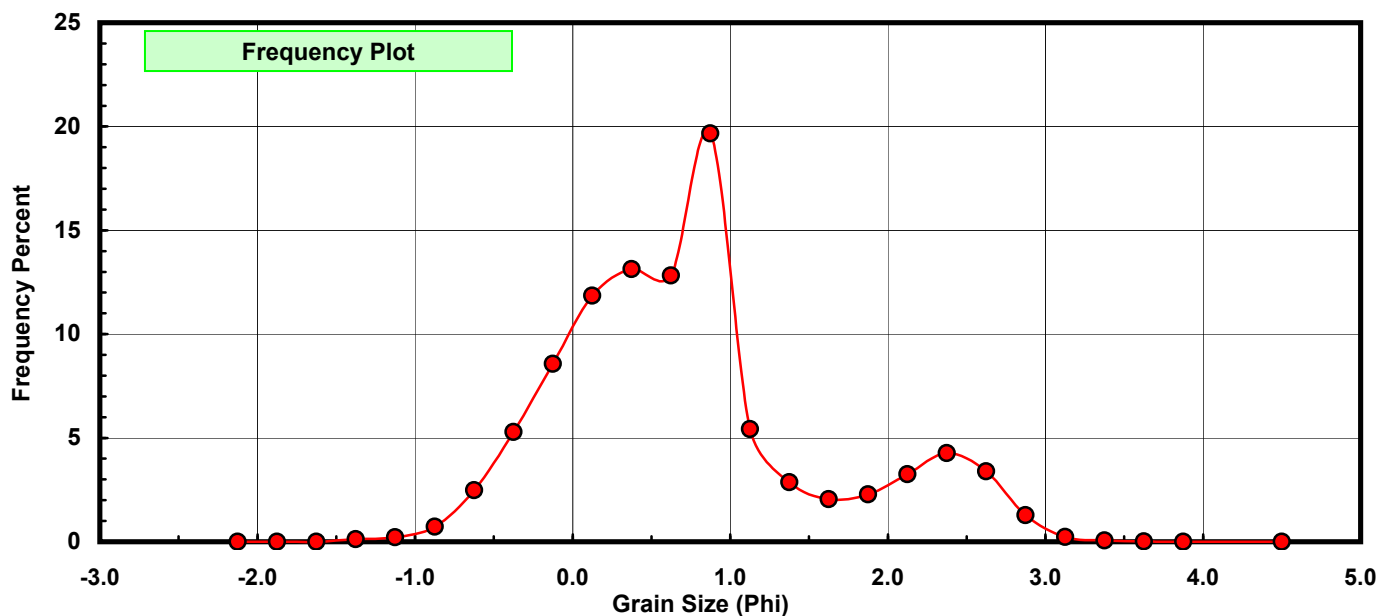
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.101	0.123	0.123
-1.00	-1.125	0.183	0.223	0.347
-0.75	-0.875	0.599	0.731	1.078
-0.50	-0.625	2.033	2.482	3.560
-0.25	-0.375	4.333	5.290	8.850
0.00	-0.125	7.014	8.563	17.414
0.25	0.125	9.702	11.845	29.259
0.50	0.375	10.756	13.132	42.391
0.75	0.625	10.508	12.829	55.220
1.00	0.875	16.109	19.667	74.887
1.25	1.125	4.439	5.420	80.307
1.50	1.375	2.344	2.862	83.169
1.75	1.625	1.673	2.043	85.211
2.00	1.875	1.864	2.276	87.487
2.25	2.125	2.662	3.250	90.737
2.50	2.375	3.502	4.276	95.013
2.75	2.625	2.781	3.395	98.408
3.00	2.875	1.052	1.284	99.692
3.25	3.125	0.194	0.237	99.929
3.50	3.375	0.045	0.055	99.984
3.75	3.625	0.011	0.013	99.998
4.00	3.875	0.001	0.001	99.999
5.00	4.500	0.001	0.001	100.000

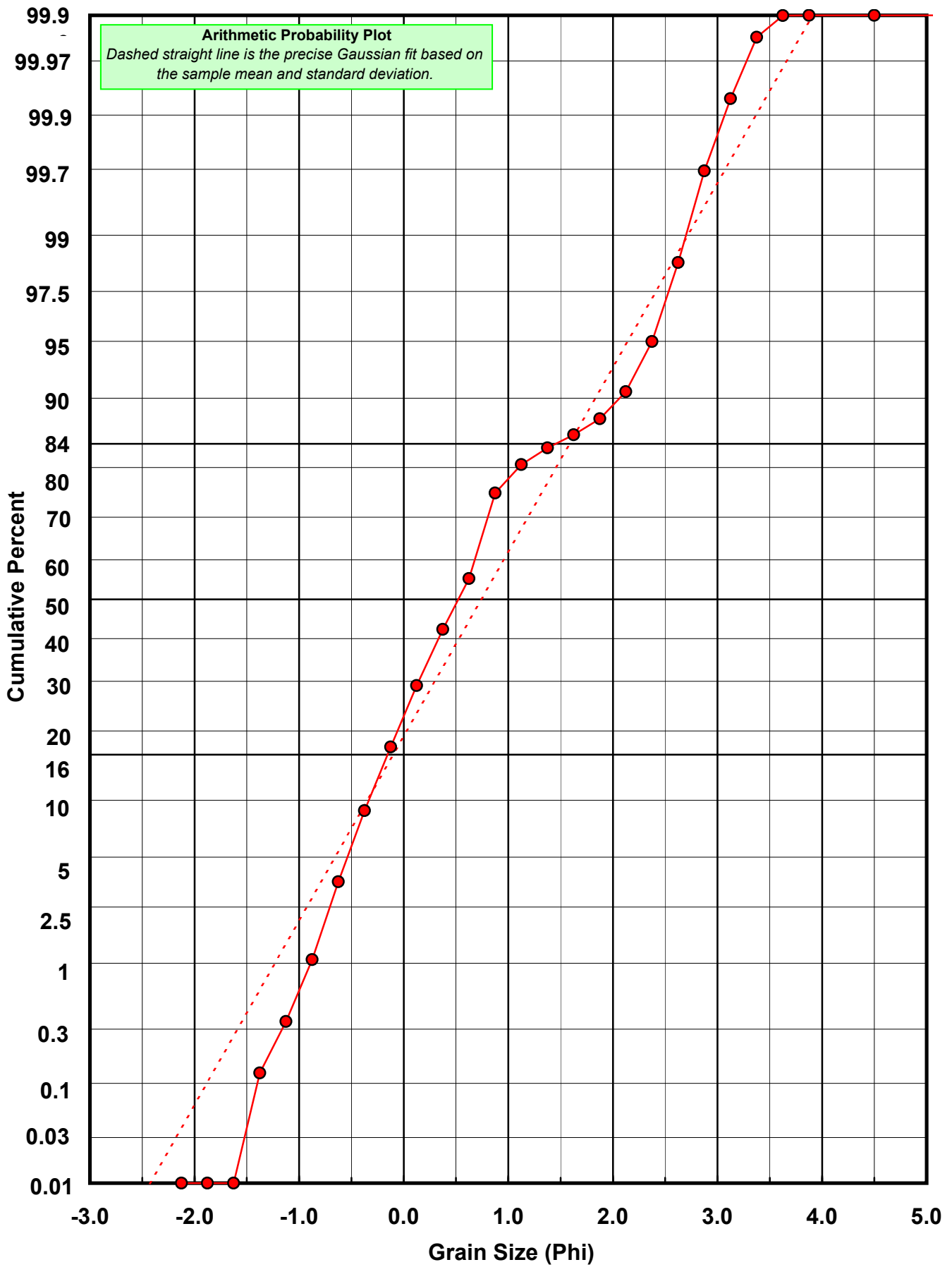
Statistical Results			
Mean:	0.7423	phi	(0.5978 mm)
Standard Dev:	0.8510	phi-units	(0.5544 mm)
Skewness:	0.7266	dimensionless	
Kurtosis:	3.1367	dimensionless	
5th Moment:	4.3744	dimensionless	
6th Moment:	13.8589	dimensionless	
RARD *	1.1464	dimensionless	
Median	0.5233	phi	(0.6958 mm)

\* 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-19-SS

Total Carbonate Mass: 43.315 grams

% Carbonate: 52.6 %

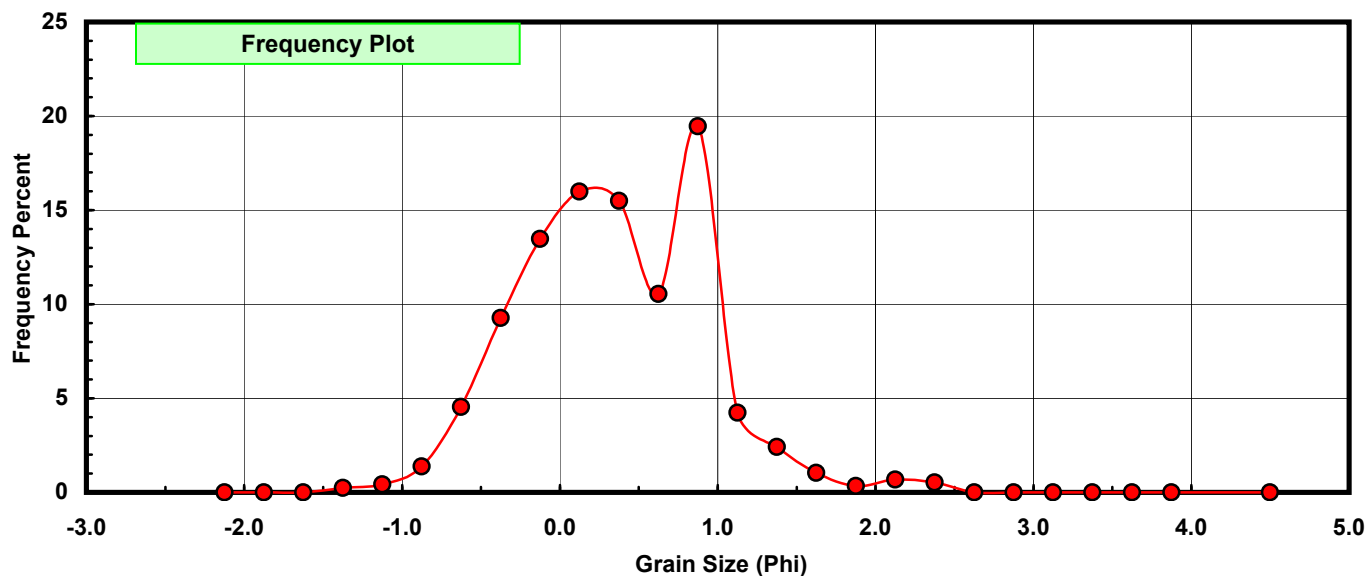
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.101	0.233	0.233
-1.00	-1.125	0.183	0.422	0.656
-0.75	-0.875	0.594	1.371	2.027
-0.50	-0.625	1.964	4.534	6.561
-0.25	-0.375	4.017	9.274	15.835
0.00	-0.125	5.834	13.469	29.304
0.25	0.125	6.926	15.990	45.294
0.50	0.375	6.709	15.489	60.783
0.75	0.625	4.567	10.544	71.326
1.00	0.875	8.426	19.453	90.779
1.25	1.125	1.831	4.227	95.006
1.50	1.375	1.046	2.415	97.421
1.75	1.625	0.448	1.034	98.456
2.00	1.875	0.145	0.335	98.790
2.25	2.125	0.296	0.683	99.474
2.50	2.375	0.225	0.519	99.993
2.75	2.625	0.000	0.000	99.993
3.00	2.875	0.000	0.000	99.993
3.25	3.125	0.000	0.000	99.993
3.50	3.375	0.001	0.002	99.995
3.75	3.625	0.002	0.005	100.000
4.00	3.875	0.000	0.000	100.000
5.00	4.500	0.000	0.000	100.000

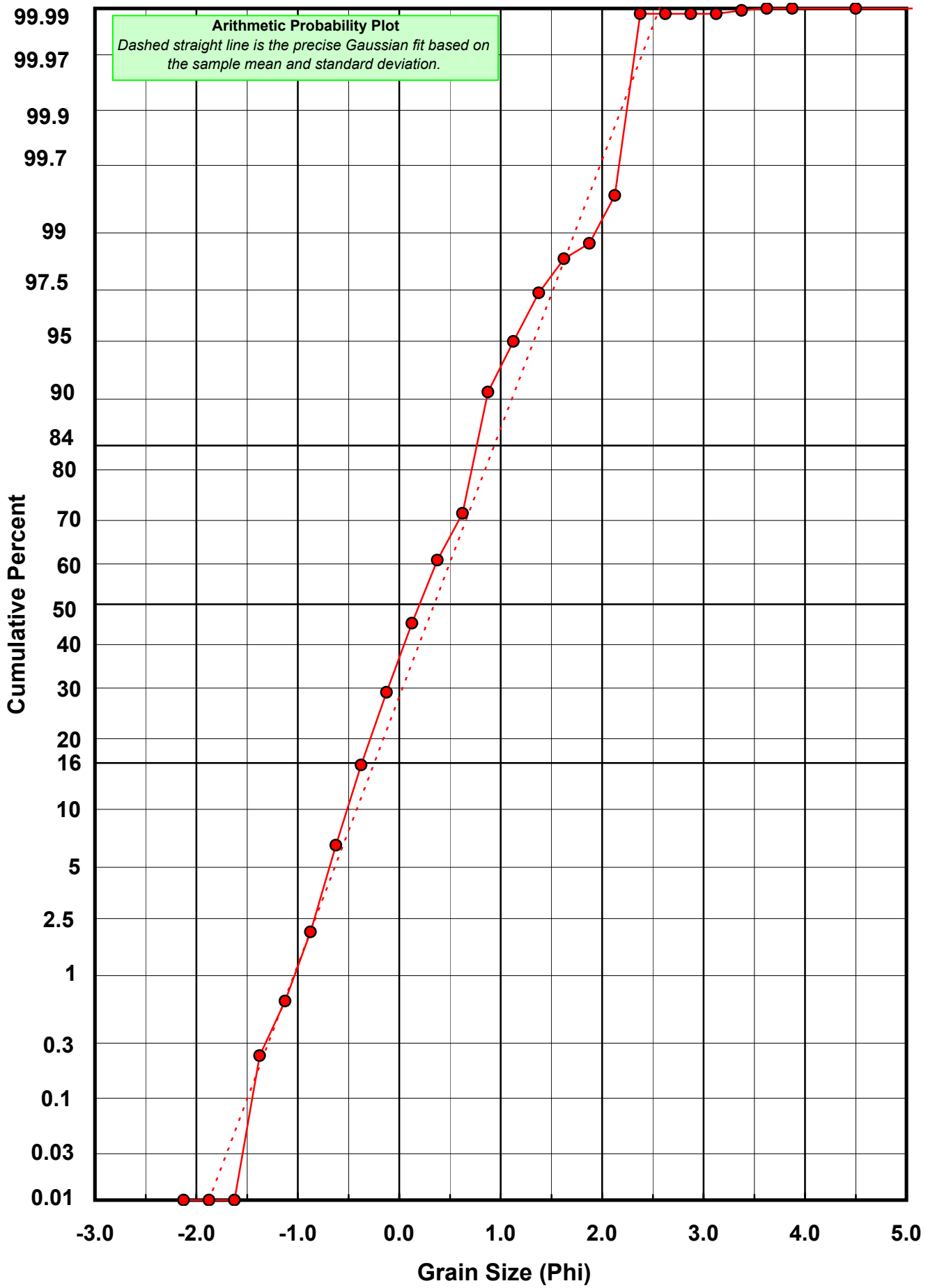
Statistical Results			
Mean:	0.3452	phi	(0.7872 mm)
Standard Dev:	0.5965	phi-units	(0.6614 mm)
Skewness:	0.2584	dimensionless	
Kurtosis:	3.3272	dimensionless	
5th Moment:	3.7282	dimensionless	
6th Moment:	22.4363	dimensionless	
RARD *	1.7279	dimensionless	
Median	0.2010	phi	(0.87 mm)

\* 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-19-SS

Total Digested Mass: 38.782 grams

% Silica: 47.4 %

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	0.005	0.013	0.013
-0.50	-0.625	0.069	0.178	0.191
-0.25	-0.375	0.316	0.815	1.006
0.00	-0.125	1.180	3.043	4.048
0.25	0.125	2.776	7.158	11.206
0.50	0.375	4.047	10.435	21.641
0.75	0.625	5.941	15.319	36.960
1.00	0.875	7.683	19.811	56.771
1.25	1.125	2.608	6.725	63.496
1.50	1.375	1.298	3.347	66.843
1.75	1.625	1.225	3.159	70.002
2.00	1.875	1.719	4.432	74.434
2.25	2.125	2.366	6.101	80.535
2.50	2.375	3.277	8.450	88.985
2.75	2.625	2.906	7.493	96.478
3.00	2.875	1.107	2.854	99.332
3.25	3.125	0.204	0.526	99.858
3.50	3.375	0.044	0.113	99.972
3.75	3.625	0.009	0.023	99.995
4.00	3.875	0.002	0.005	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.1956	phi	(0.4366 mm)
Standard Dev:	0.8835	phi-units	(0.5421 mm)
Skewness:	0.4735	dimensionless	
Kurtosis:	2.0090	dimensionless	
5th Moment:	1.7234	dimensionless	
6th Moment:	5.4275	dimensionless	
RARD *	0.7389	dimensionless	
Median	0.7896	phi	(0.5785 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)

