

Onshore Grab Sample

Sample: SJ-31-SS
Sample Taken By: J. Ladner
Sample Collected On: 12/1/03
Splits? N/A

County: St. Johns
Latitude: 29° 50' 5.6"
Longitude: 81° 15' 48.9"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 55.004 grams
Total Fines in Sample 0.469 grams
Total Percent Fines 0.85 %

Dry Sieving Summary

Total Sample Weight 54.529 grams
Total Digested Weight 53.516 grams
Total Carbonate Weight 1.013 grams
Total Silica % 98.14 %
Total Carbonate % 1.86 %
Carbonate/Silica Ratio 0.019

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-31-SS

Total Sample Mass: 54.529 grams

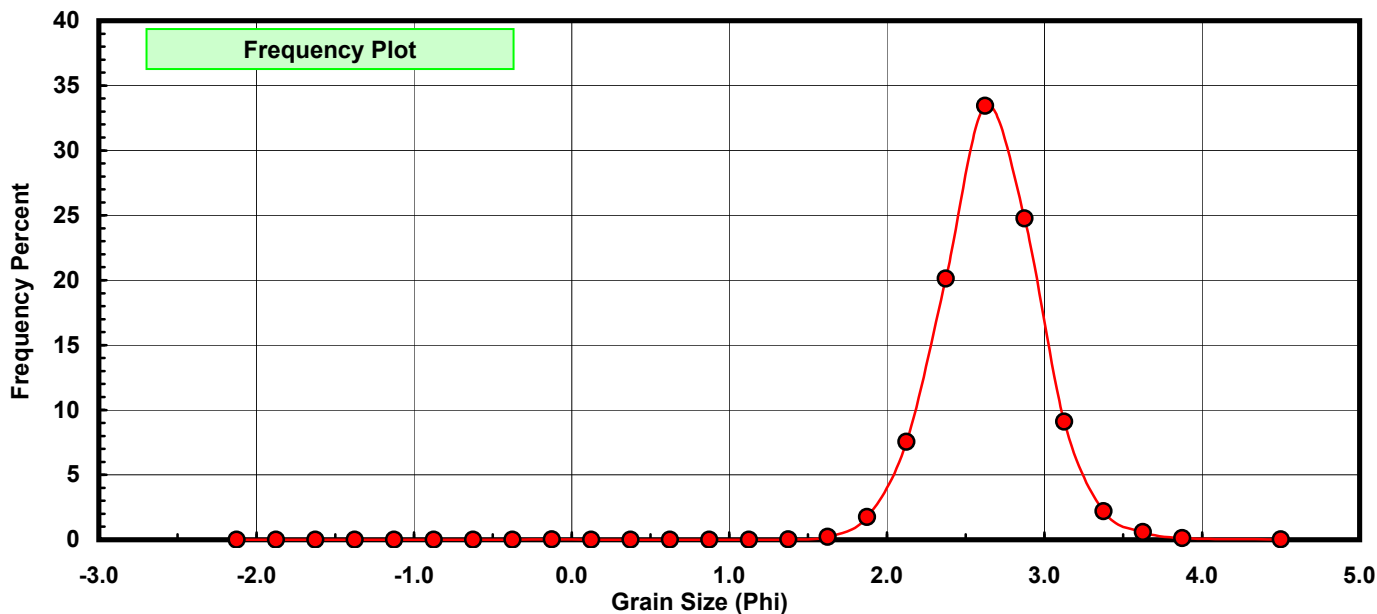
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.004	0.007	0.007
-0.50	-0.625	0.000	0.000	0.007
-0.25	-0.375	0.002	0.004	0.011
0.00	-0.125	0.009	0.017	0.028
0.25	0.125	0.003	0.006	0.033
0.50	0.375	0.006	0.011	0.044
0.75	0.625	0.004	0.007	0.051
1.00	0.875	0.005	0.009	0.061
1.25	1.125	0.006	0.011	0.072
1.50	1.375	0.019	0.035	0.106
1.75	1.625	0.122	0.224	0.330
2.00	1.875	0.950	1.742	2.072
2.25	2.125	4.116	7.548	9.621
2.50	2.375	10.979	20.134	29.755
2.75	2.625	18.239	33.448	63.203
3.00	2.875	13.507	24.770	87.973
3.25	3.125	4.963	9.102	97.075
3.50	3.375	1.198	2.197	99.272
3.75	3.625	0.318	0.583	99.855
4.00	3.875	0.065	0.119	99.974
5.00	4.500	0.014	0.026	100.000

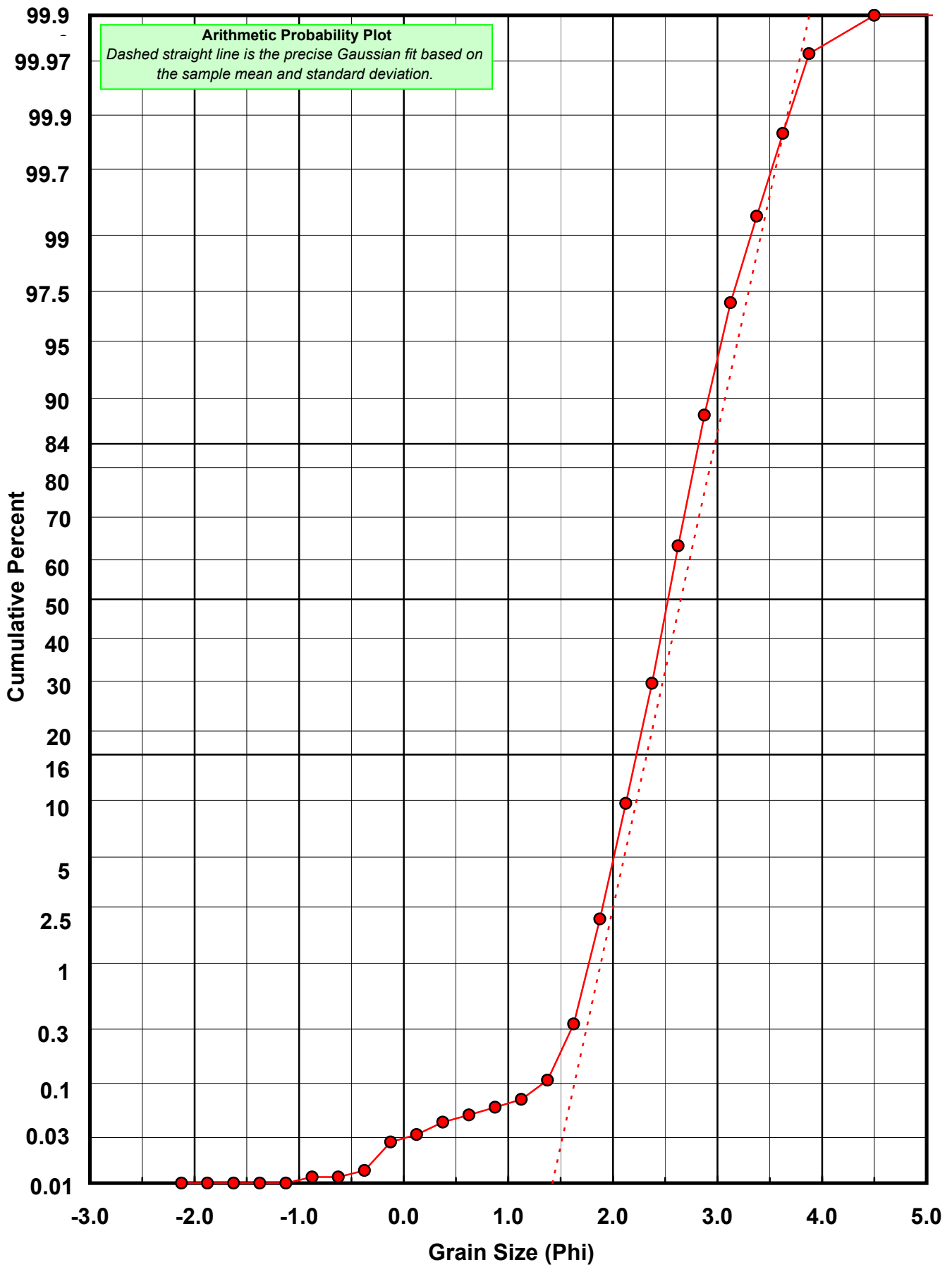
Statistical Results			
Mean:	2.6512	phi	(0.1592 mm)
Standard Dev:	0.3297	phi-units	(0.7957 mm)
Skewness:	-0.2280	dimensionless	
Kurtosis:	6.1181	dimensionless	
5th Moment:	-22.3016	dimensionless	
6th Moment:	251.0247	dimensionless	
RARD *	0.1244	dimensionless	
Median	2.5263	phi	(0.1736 mm)

* 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-31-SS

Total Carbonate Mass: 1.106 grams

% Carbonate: 1.9 %

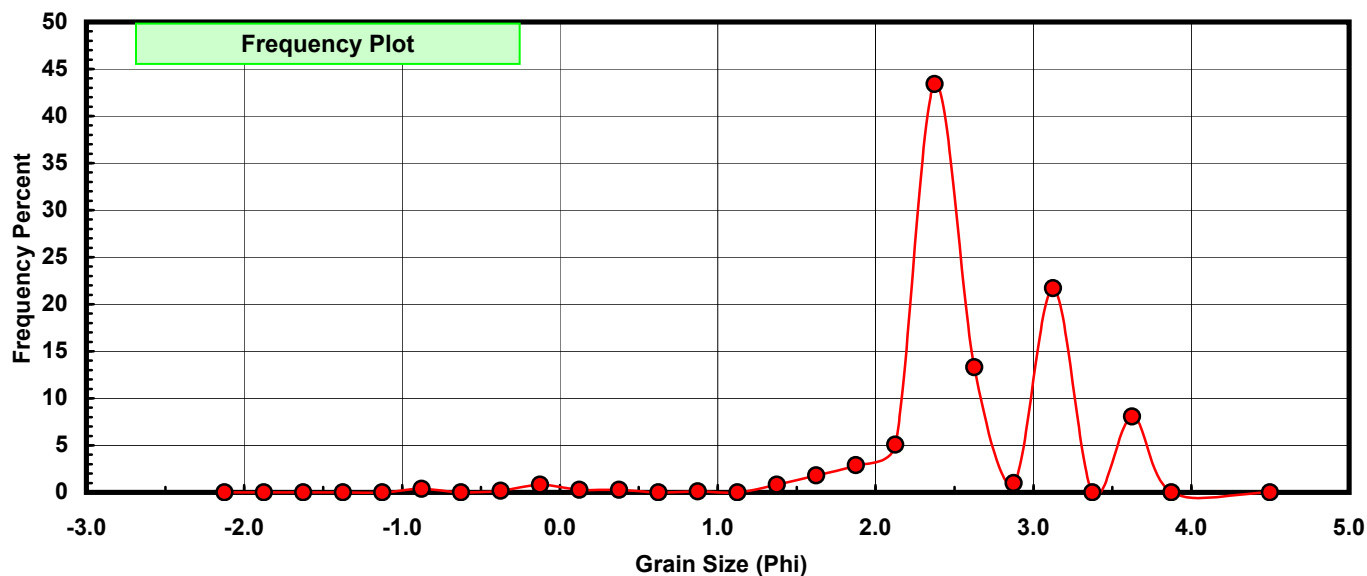
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.004	0.362	0.362
-0.50	-0.625	0.000	0.000	0.362
-0.25	-0.375	0.002	0.181	0.542
0.00	-0.125	0.009	0.814	1.356
0.25	0.125	0.003	0.271	1.627
0.50	0.375	0.003	0.271	1.899
0.75	0.625	0.000	0.000	1.899
1.00	0.875	0.001	0.090	1.989
1.25	1.125	0.000	0.000	1.989
1.50	1.375	0.009	0.814	2.803
1.75	1.625	0.020	1.808	4.611
2.00	1.875	0.032	2.893	7.505
2.25	2.125	0.056	5.063	12.568
2.50	2.375	0.480	43.400	55.967
2.75	2.625	0.147	13.291	69.259
3.00	2.875	0.011	0.995	70.253
3.25	3.125	0.240	21.700	91.953
3.50	3.375	0.000	0.000	91.953
3.75	3.625	0.089	8.047	100.000
4.00	3.875	0.000	0.000	100.000
5.00	4.500	0.000	0.000	100.000

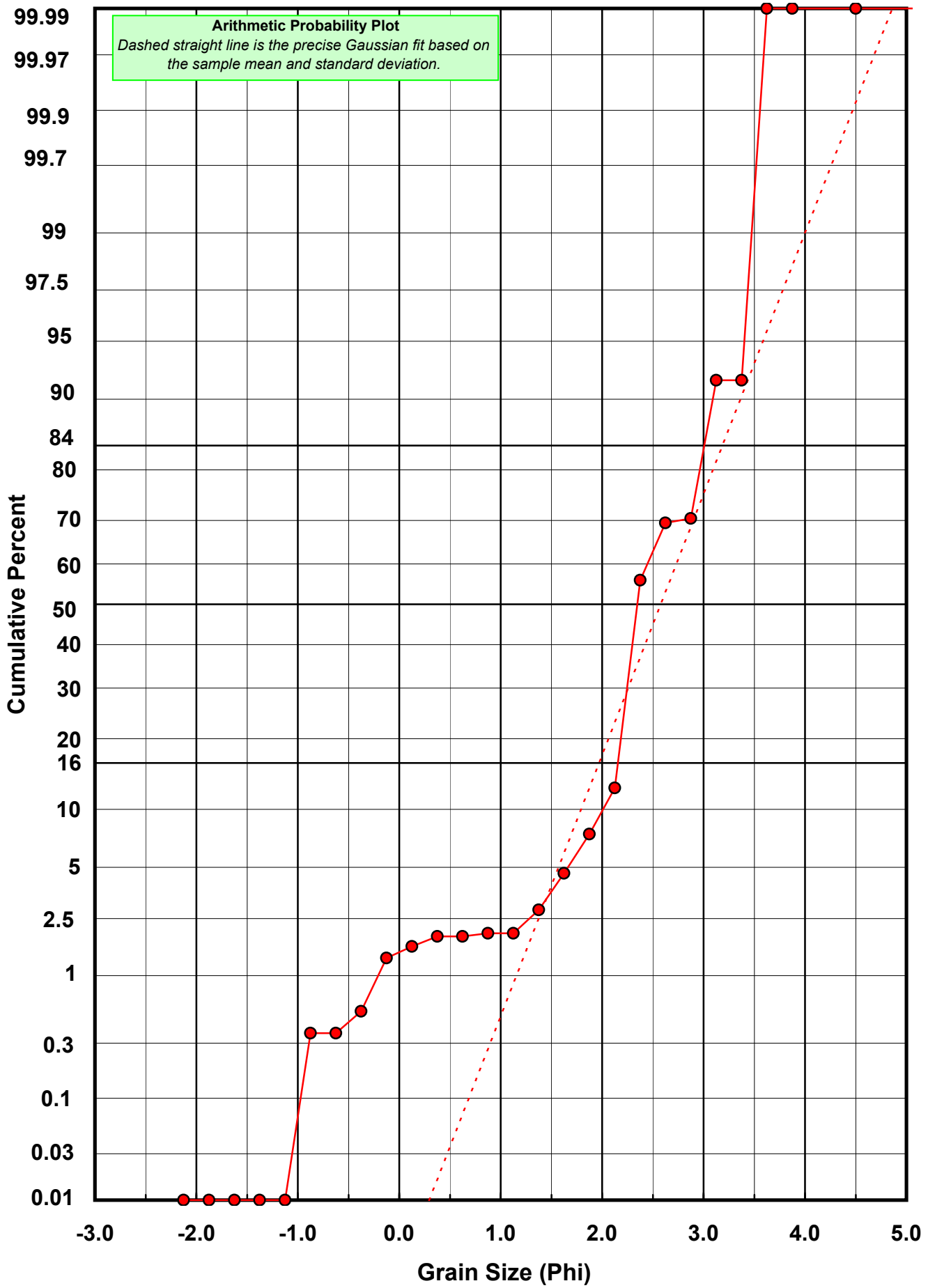
Statistical Results			
Mean:	2.5778	phi	(0.1675 mm)
Standard Dev:	0.6128	phi-units	(0.6539 mm)
Skewness:	-1.5185	dimensionless	
Kurtosis:	10.0229	dimensionless	
5th Moment:	-42.5505	dimensionless	
6th Moment:	218.5527	dimensionless	
RARD *	0.2377	dimensionless	
Median	2.3406	phi	(0.1974 mm)

* 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-31-SS

Total Digested Mass: 53.498 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	0.006	0.006
0.75	0.625	0.005	0.009	0.015
1.00	0.875	0.004	0.007	0.022
1.25	1.125	0.009	0.017	0.039
1.50	1.375	0.010	0.019	0.058
1.75	1.625	0.102	0.191	0.249
2.00	1.875	0.918	1.716	1.965
2.25	2.125	4.060	7.589	9.554
2.50	2.375	10.499	19.625	29.179
2.75	2.625	18.092	33.818	62.997
3.00	2.875	13.496	25.227	88.224
3.25	3.125	4.723	8.828	97.052
3.50	3.375	1.276	2.385	99.437
3.75	3.625	0.229	0.428	99.865
4.00	3.875	0.072	0.135	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.6533	phi	(0.159 mm)
Standard Dev:	0.3211	phi-units	(0.8004 mm)
Skewness:	-0.0338	dimensionless	
Kurtosis:	3.7415	dimensionless	
5th Moment:	-1.8910	dimensionless	
6th Moment:	37.1174	dimensionless	
RARD *	0.1210	dimensionless	
Median	2.5289	phi	(0.1733 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)

