

Onshore Grab Sample

Sample: SJ-37-SS
Sample Taken By: J. Ladner
Sample Collected On: 12/1/03
Splits? N/A

County: St. Johns
Latitude: 29° 45' 13.1"
Longitude: 81° 14' 44.3"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 70.124 grams
Total Fines in Sample 0.761 grams
Total Percent Fines 1.07 %

Dry Sieving Summary

Total Sample Weight 69.060 grams
Total Digested Weight 68.143 grams
Total Carbonate Weight 0.917 grams
Total Silica % 98.67 %
Total Carbonate % 1.33 %
Carbonate/Silica Ratio 0.013

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-37-SS

Total Sample Mass: 69.060 grams

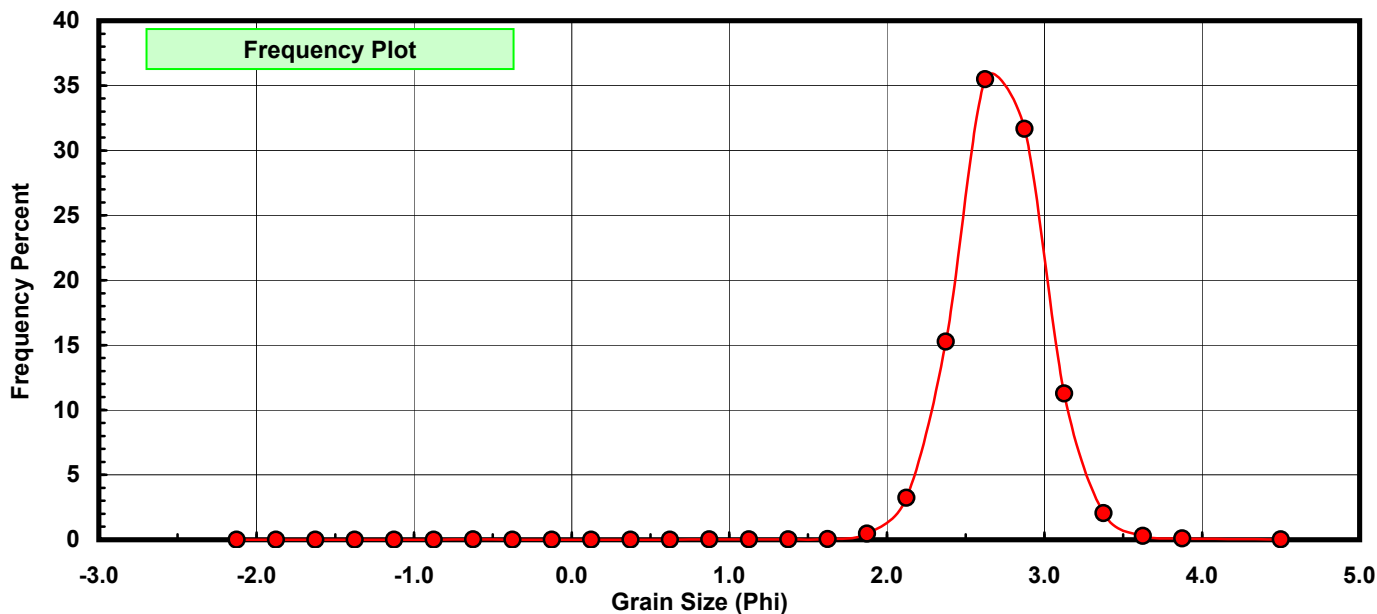
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.005	0.007	0.007
-0.50	-0.625	0.011	0.016	0.023
-0.25	-0.375	0.001	0.001	0.025
0.00	-0.125	0.005	0.007	0.032
0.25	0.125	0.008	0.012	0.043
0.50	0.375	0.008	0.012	0.055
0.75	0.625	0.008	0.012	0.067
1.00	0.875	0.013	0.019	0.085
1.25	1.125	0.011	0.016	0.101
1.50	1.375	0.013	0.019	0.120
1.75	1.625	0.042	0.061	0.181
2.00	1.875	0.326	0.472	0.653
2.25	2.125	2.226	3.223	3.876
2.50	2.375	10.543	15.266	19.143
2.75	2.625	24.507	35.487	54.629
3.00	2.875	21.862	31.657	86.286
3.25	3.125	7.787	11.276	97.562
3.50	3.375	1.406	2.036	99.597
3.75	3.625	0.200	0.290	99.887
4.00	3.875	0.066	0.096	99.983
5.00	4.500	0.012	0.017	100.000

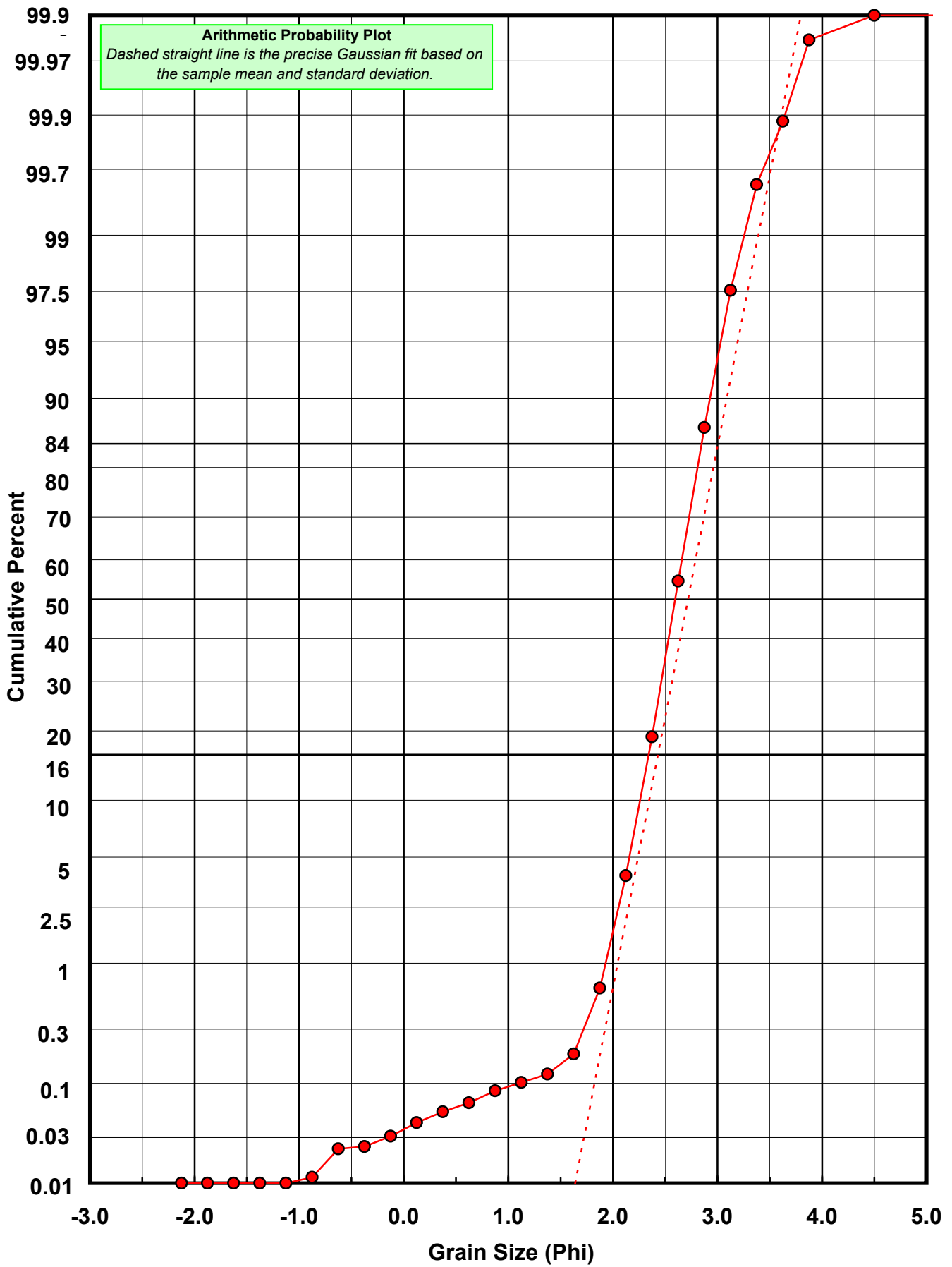
Statistical Results			
Mean:	2.7192	phi	(0.1519 mm)
Standard Dev:	0.2896	phi-units	(0.8181 mm)
Skewness:	-0.6727	dimensionless	
Kurtosis:	10.7763	dimensionless	
5th Moment:	-77.7172	dimensionless	
6th Moment:	896.1139	dimensionless	
RARD *	0.1065	dimensionless	
Median	2.5924	phi	(0.1658 mm)

* 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-37-SS

Total Carbonate Mass: 2.307 grams

% Carbonate: 1.3 %

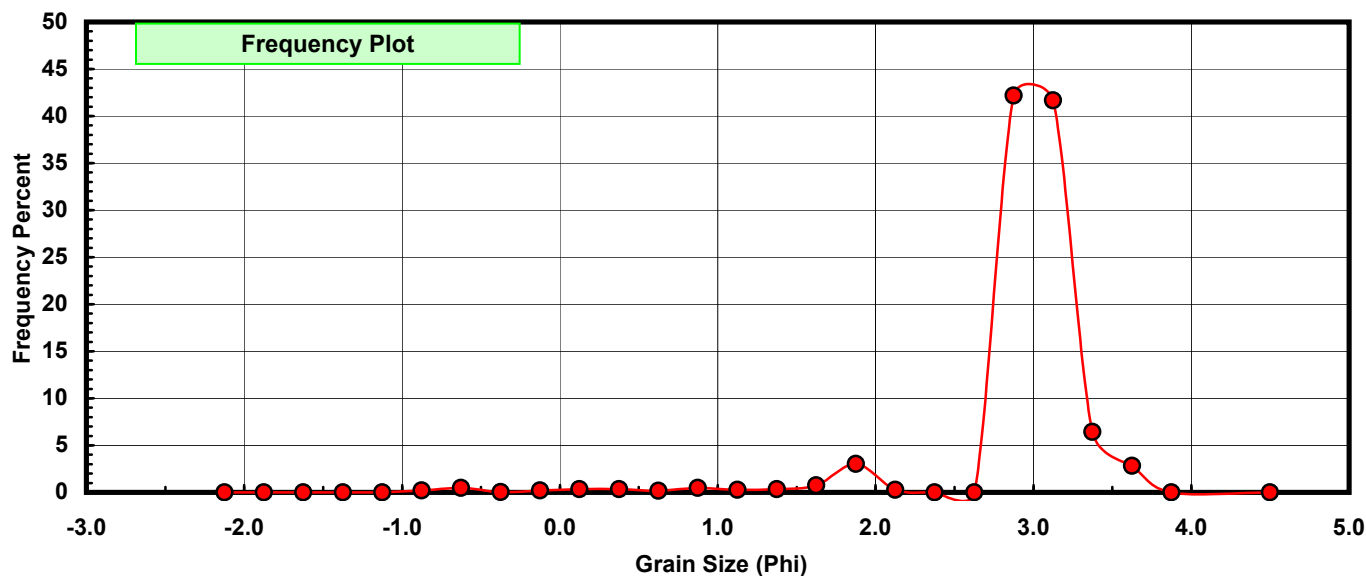
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.005	0.217	0.217
-0.50	-0.625	0.011	0.477	0.694
-0.25	-0.375	0.001	0.043	0.737
0.00	-0.125	0.005	0.217	0.954
0.25	0.125	0.008	0.347	1.300
0.50	0.375	0.008	0.347	1.647
0.75	0.625	0.004	0.173	1.821
1.00	0.875	0.011	0.477	2.297
1.25	1.125	0.006	0.260	2.557
1.50	1.375	0.008	0.347	2.904
1.75	1.625	0.017	0.737	3.641
2.00	1.875	0.070	3.034	6.675
2.25	2.125	0.006	0.260	6.935
2.50	2.375	0.000	0.000	6.935
2.75	2.625	0.000	0.000	6.935
3.00	2.875	0.973	42.176	49.111
3.25	3.125	0.961	41.656	90.767
3.50	3.375	0.148	6.415	97.182
3.75	3.625	0.065	2.818	100.000
4.00	3.875	0.000	0.000	100.000
5.00	4.500	0.000	0.000	100.000

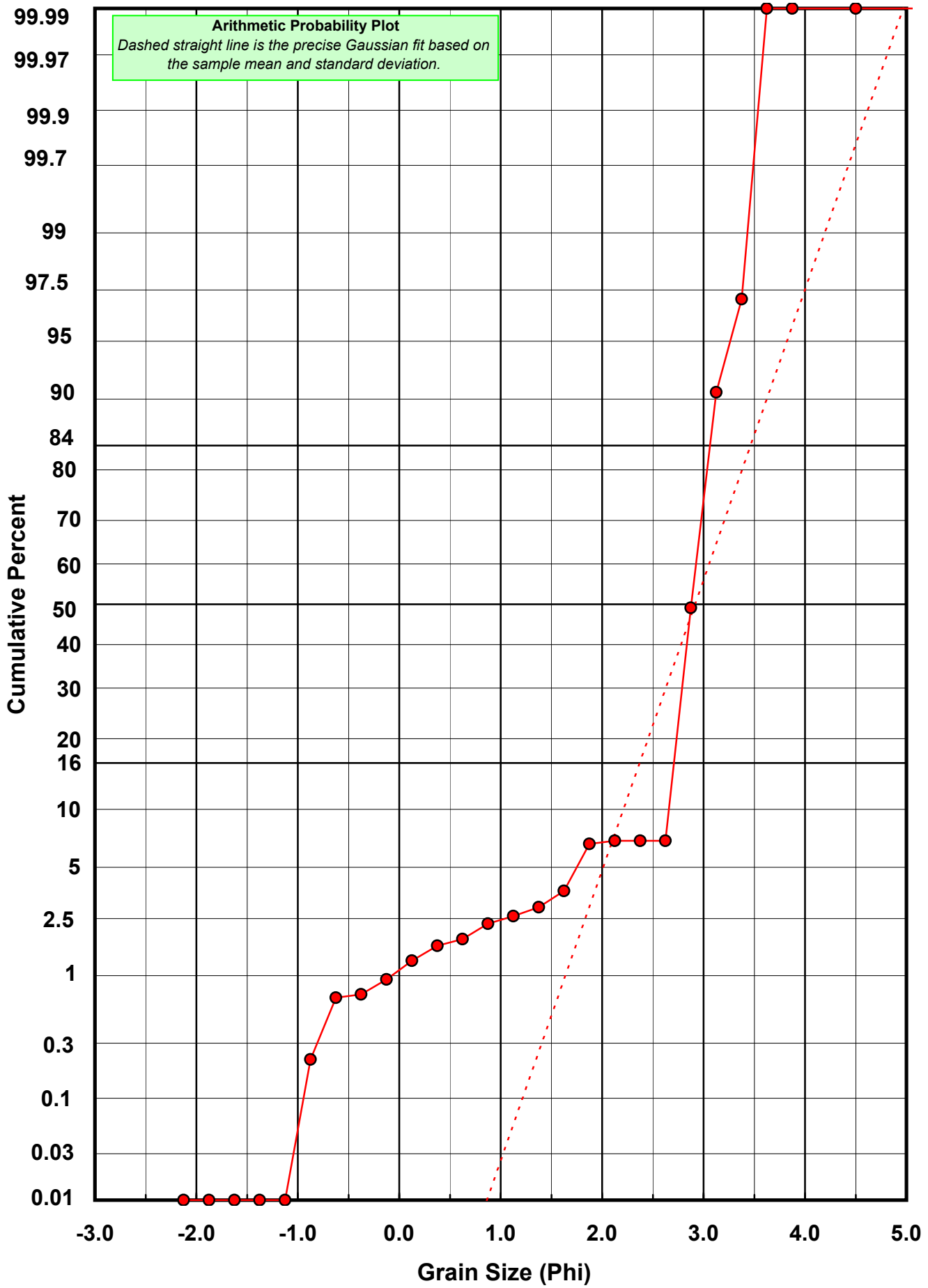
Statistical Results			
Mean:	2.9167	phi	(0.1324 mm)
Standard Dev:	0.5513	phi-units	(0.6824 mm)
Skewness:	-3.9349	dimensionless	
Kurtosis:	22.0226	dimensionless	
5th Moment:	-126.7656	dimensionless	
6th Moment:	765.4934	dimensionless	
RARD *	0.1890	dimensionless	
Median	2.8803	phi	(0.1358 mm)

* 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-37-SS

Total Digested Mass: 68.131 grams

% Silica: 98.7 %

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	0.000	0.000	0.000
0.75	0.625	0.004	0.006	0.006
1.00	0.875	0.002	0.003	0.009
1.25	1.125	0.005	0.007	0.016
1.50	1.375	0.005	0.007	0.023
1.75	1.625	0.025	0.037	0.060
2.00	1.875	0.256	0.376	0.436
2.25	2.125	2.220	3.258	3.694
2.50	2.375	10.968	16.098	19.793
2.75	2.625	25.443	37.344	57.137
3.00	2.875	20.889	30.660	87.797
3.25	3.125	6.826	10.019	97.816
3.50	3.375	1.258	1.846	99.662
3.75	3.625	0.135	0.198	99.861
4.00	3.875	0.095	0.139	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.7092	phi	(0.1529 mm)
Standard Dev:	0.2721	phi-units	(0.8281 mm)
Skewness:	0.0614	dimensionless	
Kurtosis:	3.9076	dimensionless	
5th Moment:	-0.6413	dimensionless	
6th Moment:	44.2252	dimensionless	
RARD *	0.1004	dimensionless	
Median	2.5772	phi	(0.1676 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)

