

Onshore Grab Sample

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

County: St. Johns
Latitude: 30° 06'9.8"
Longitude: 81° 20' 28.1"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 80.387 grams
Total Fines in Sample 0.613 grams
Total Percent Fines 0.76 %

Dry Sieving Summary

Total Sample Weight 79.910 grams
Total Digested Weight 47.692 grams
Total Carbonate Weight 32.218 grams
Total Silica % 59.68 %
Total Carbonate % 40.32 %
Carbonate/Silica Ratio 0.676

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-12-SS

Total Sample Mass: 79.910 grams

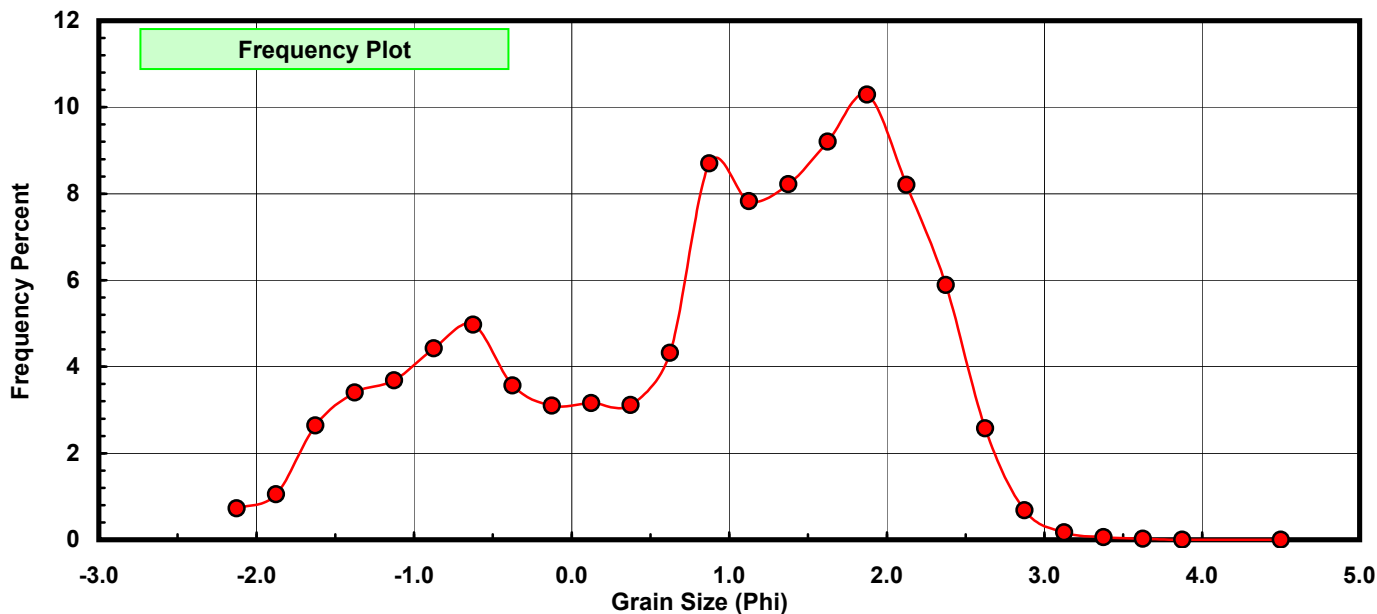
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.580	0.726	0.726
-1.75	-1.875	0.840	1.051	1.777
-1.50	-1.625	2.109	2.639	4.416
-1.25	-1.375	2.720	3.404	7.820
-1.00	-1.125	2.942	3.682	11.502
-0.75	-0.875	3.536	4.425	15.927
-0.50	-0.625	3.975	4.974	20.901
-0.25	-0.375	2.847	3.563	24.464
0.00	-0.125	2.478	3.101	27.565
0.25	0.125	2.524	3.159	30.723
0.50	0.375	2.486	3.111	33.834
0.75	0.625	3.454	4.322	38.157
1.00	0.875	6.951	8.699	46.855
1.25	1.125	6.256	7.829	54.684
1.50	1.375	6.567	8.218	62.902
1.75	1.625	7.353	9.202	72.104
2.00	1.875	8.226	10.294	82.398
2.25	2.125	6.558	8.207	90.604
2.50	2.375	4.707	5.890	96.495
2.75	2.625	2.058	2.575	99.070
3.00	2.875	0.543	0.680	99.750
3.25	3.125	0.134	0.168	99.917
3.50	3.375	0.048	0.060	99.977
3.75	3.625	0.016	0.020	99.997
4.00	3.875	0.001	0.001	99.999
5.00	4.500	0.001	0.001	100.000

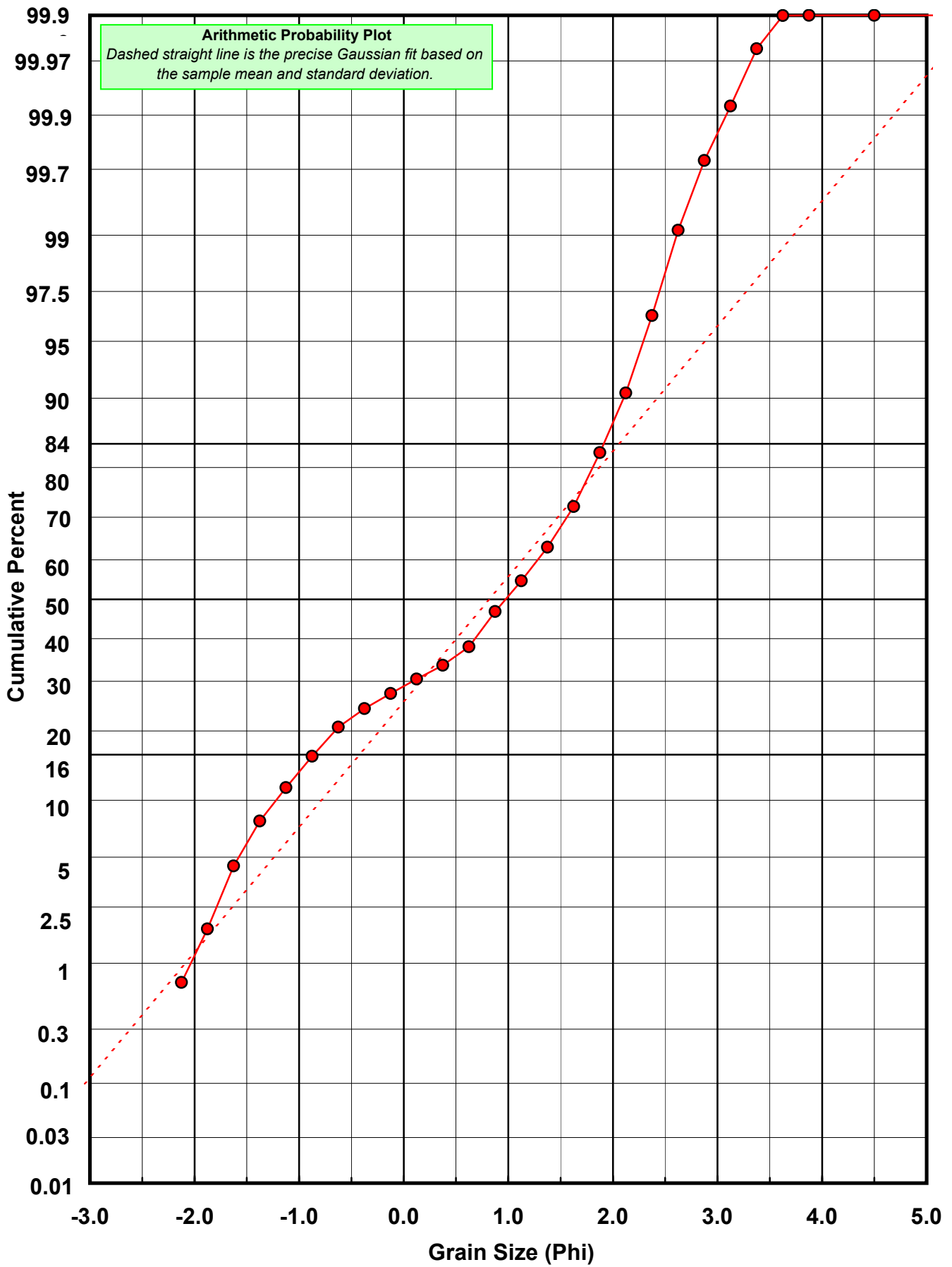
Statistical Results			
Mean:	0.8186	phi	(0.567 mm)
Standard Dev:	1.2527	phi-units	(0.4197 mm)
Skewness:	-0.5317	dimensionless	
Kurtosis:	2.1729	dimensionless	
5th Moment:	-2.3635	dimensionless	
6th Moment:	6.5891	dimensionless	
RARD *	1.5303	dimensionless	
Median	0.9754	phi	(0.5086 mm)

* 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-12-SS

Total Carbonate Mass: 32.627 grams

% Carbonate: 40.3 %

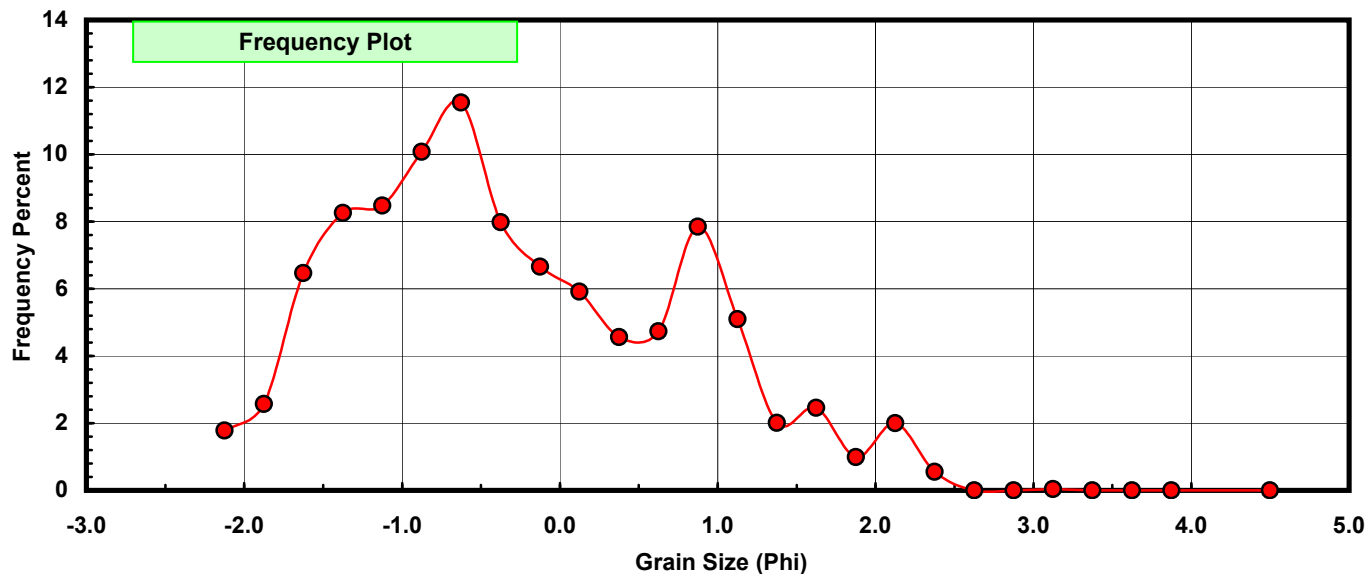
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.580	1.778	1.778
-1.75	-1.875	0.840	2.575	4.352
-1.50	-1.625	2.109	6.464	10.816
-1.25	-1.375	2.694	8.257	19.073
-1.00	-1.125	2.764	8.472	27.545
-0.75	-0.875	3.287	10.074	37.619
-0.50	-0.625	3.767	11.546	49.165
-0.25	-0.375	2.605	7.984	57.149
0.00	-0.125	2.171	6.654	63.803
0.25	0.125	1.929	5.912	69.715
0.50	0.375	1.488	4.561	74.276
0.75	0.625	1.543	4.729	79.005
1.00	0.875	2.560	7.846	86.851
1.25	1.125	1.663	5.097	91.948
1.50	1.375	0.657	2.014	93.962
1.75	1.625	0.803	2.461	96.423
2.00	1.875	0.322	0.987	97.410
2.25	2.125	0.651	1.995	99.405
2.50	2.375	0.181	0.555	99.960
2.75	2.625	0.000	0.000	99.960
3.00	2.875	0.000	0.000	99.960
3.25	3.125	0.013	0.040	100.000
3.50	3.375	0.000	0.000	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

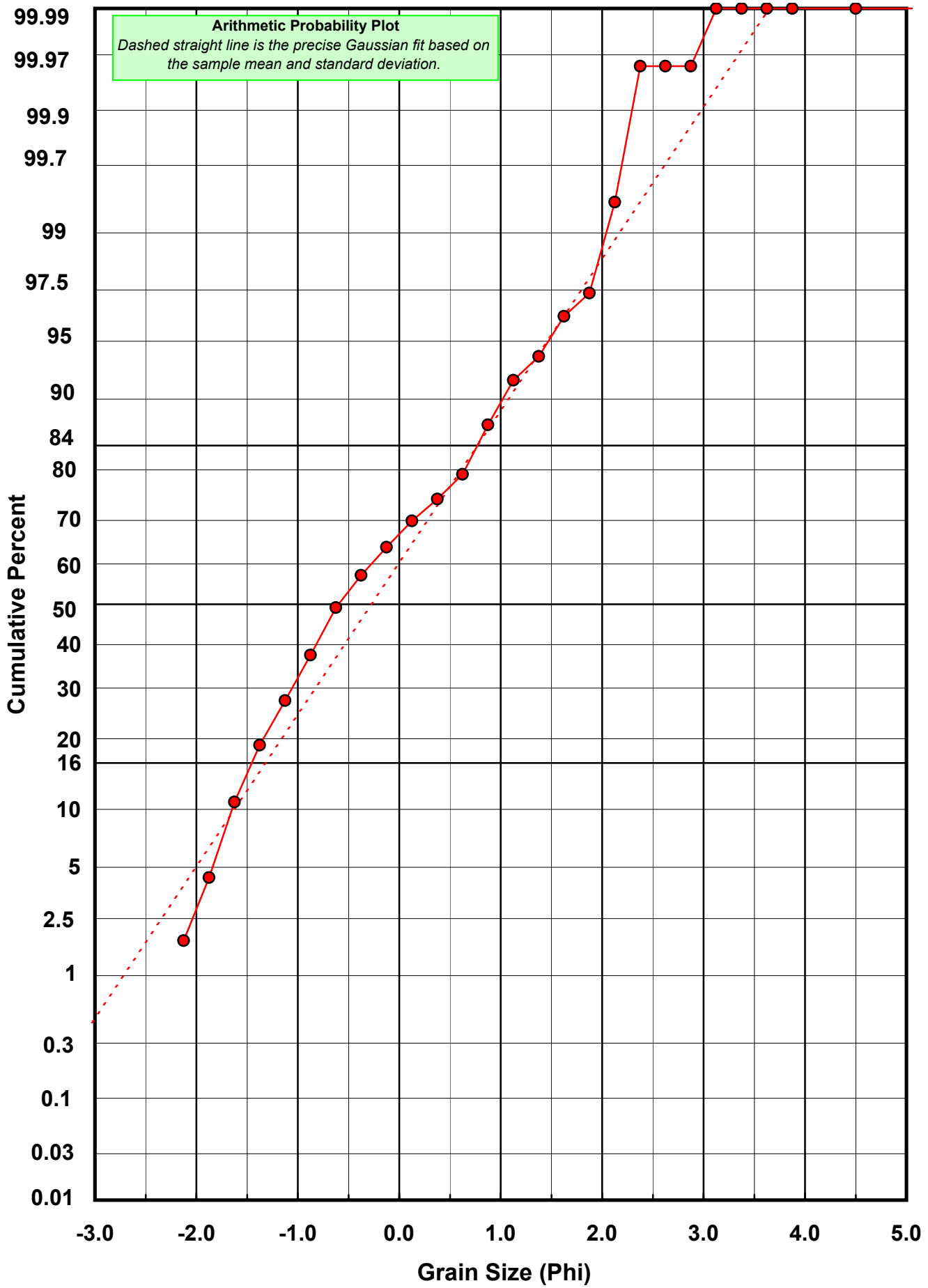
Statistical Results			
Mean:	-0.2754	phi	(1.2104 mm)
Standard Dev:	1.0540	phi-units	(0.4816 mm)
Skewness:	0.4387	dimensionless	
Kurtosis:	2.3538	dimensionless	
5th Moment:	2.4997	dimensionless	
6th Moment:	8.4352	dimensionless	
RARD *	3.8266	dimensionless	
Median	-0.5988	phi	(1.5145 mm)

* 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-12-SS

Total Digested Mass: 47.690 grams

% Silica: 59.7 %

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	0.026	0.055	0.055
-1.00	-1.125	0.178	0.373	0.428
-0.75	-0.875	0.249	0.522	0.950
-0.50	-0.625	0.208	0.436	1.386
-0.25	-0.375	0.242	0.507	1.893
0.00	-0.125	0.307	0.644	2.537
0.25	0.125	0.595	1.248	3.785
0.50	0.375	0.998	2.093	5.878
0.75	0.625	1.911	4.007	9.885
1.00	0.875	4.391	9.207	19.092
1.25	1.125	4.593	9.631	28.723
1.50	1.375	5.910	12.393	41.116
1.75	1.625	6.550	13.735	54.850
2.00	1.875	7.904	16.574	71.424
2.25	2.125	5.907	12.386	83.810
2.50	2.375	4.526	9.490	93.300
2.75	2.625	2.419	5.072	98.373
3.00	2.875	0.561	1.176	99.549
3.25	3.125	0.121	0.254	99.803
3.50	3.375	0.058	0.122	99.925
3.75	3.625	0.027	0.057	99.981
4.00	3.875	0.009	0.019	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.5831	phi	(0.3338 mm)
Standard Dev:	0.7053	phi-units	(0.6133 mm)
Skewness:	-0.7563	dimensionless	
Kurtosis:	4.1782	dimensionless	
5th Moment:	-9.2138	dimensionless	
6th Moment:	36.9940	dimensionless	
RARD *	0.4455	dimensionless	
Median	1.5367	phi	(0.3447 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)

