

Onshore Grab Sample

Sample: SJ-05-SS
Sample Taken By: J. Ladner
Sample Collected On: 12/4/03
Splits? N/A

County: St. Johns
Latitude: 30° 12' 1.0"
Longitude: 81° 21' 56.9"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 75.854 grams
Total Fines in Sample 0.801 grams
Total Percent Fines 1.04 %

Dry Sieving Summary

Total Sample Weight 74.996 grams
Total Digested Weight 67.512 grams
Total Carbonate Weight 7.484 grams
Total Silica % 90.02 %
Total Carbonate % 9.98 %
Carbonate/Silica Ratio 0.111

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-05-SS

Total Sample Mass: 74.996 grams

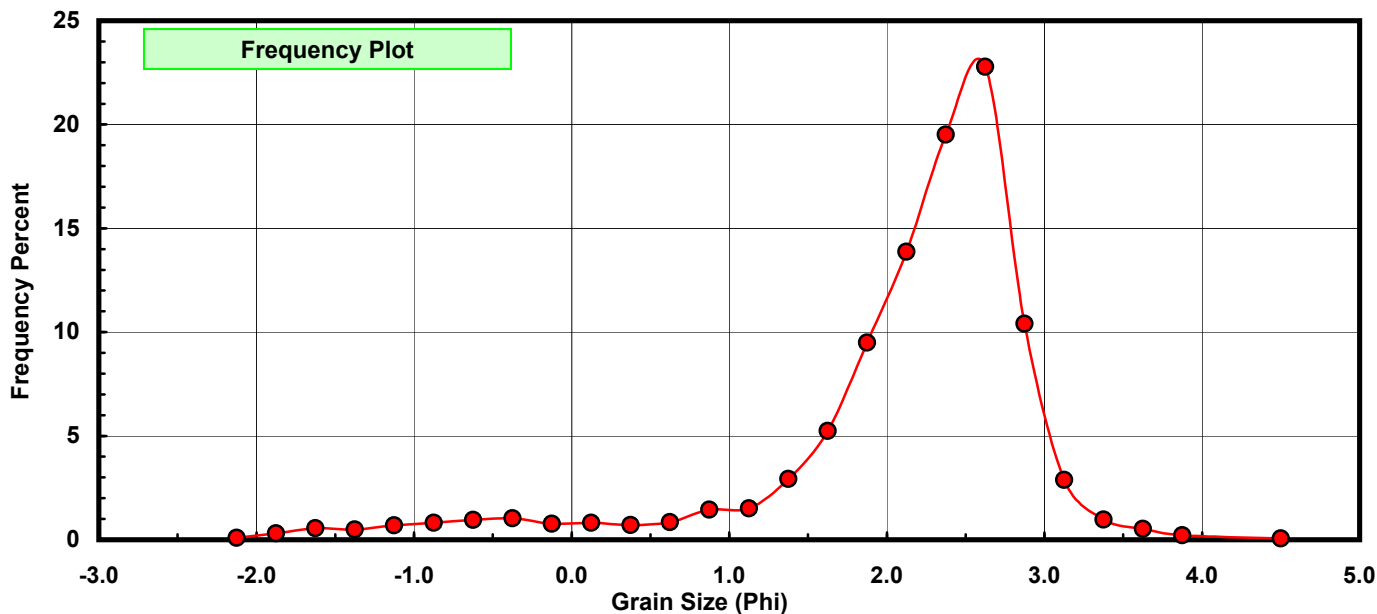
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.075	0.100	0.100
-1.75	-1.875	0.228	0.304	0.404
-1.50	-1.625	0.416	0.555	0.959
-1.25	-1.375	0.370	0.493	1.452
-1.00	-1.125	0.515	0.687	2.139
-0.75	-0.875	0.617	0.823	2.961
-0.50	-0.625	0.711	0.948	3.910
-0.25	-0.375	0.775	1.033	4.943
0.00	-0.125	0.579	0.772	5.715
0.25	0.125	0.614	0.819	6.534
0.50	0.375	0.535	0.713	7.247
0.75	0.625	0.640	0.853	8.100
1.00	0.875	1.091	1.455	9.555
1.25	1.125	1.132	1.509	11.065
1.50	1.375	2.202	2.936	14.001
1.75	1.625	3.931	5.242	19.242
2.00	1.875	7.125	9.501	28.743
2.25	2.125	10.405	13.874	42.617
2.50	2.375	14.638	19.518	62.135
2.75	2.625	17.084	22.780	84.915
3.00	2.875	7.803	10.405	95.320
3.25	3.125	2.167	2.889	98.209
3.50	3.375	0.732	0.976	99.185
3.75	3.625	0.396	0.528	99.713
4.00	3.875	0.164	0.219	99.932
5.00	4.500	0.051	0.068	100.000

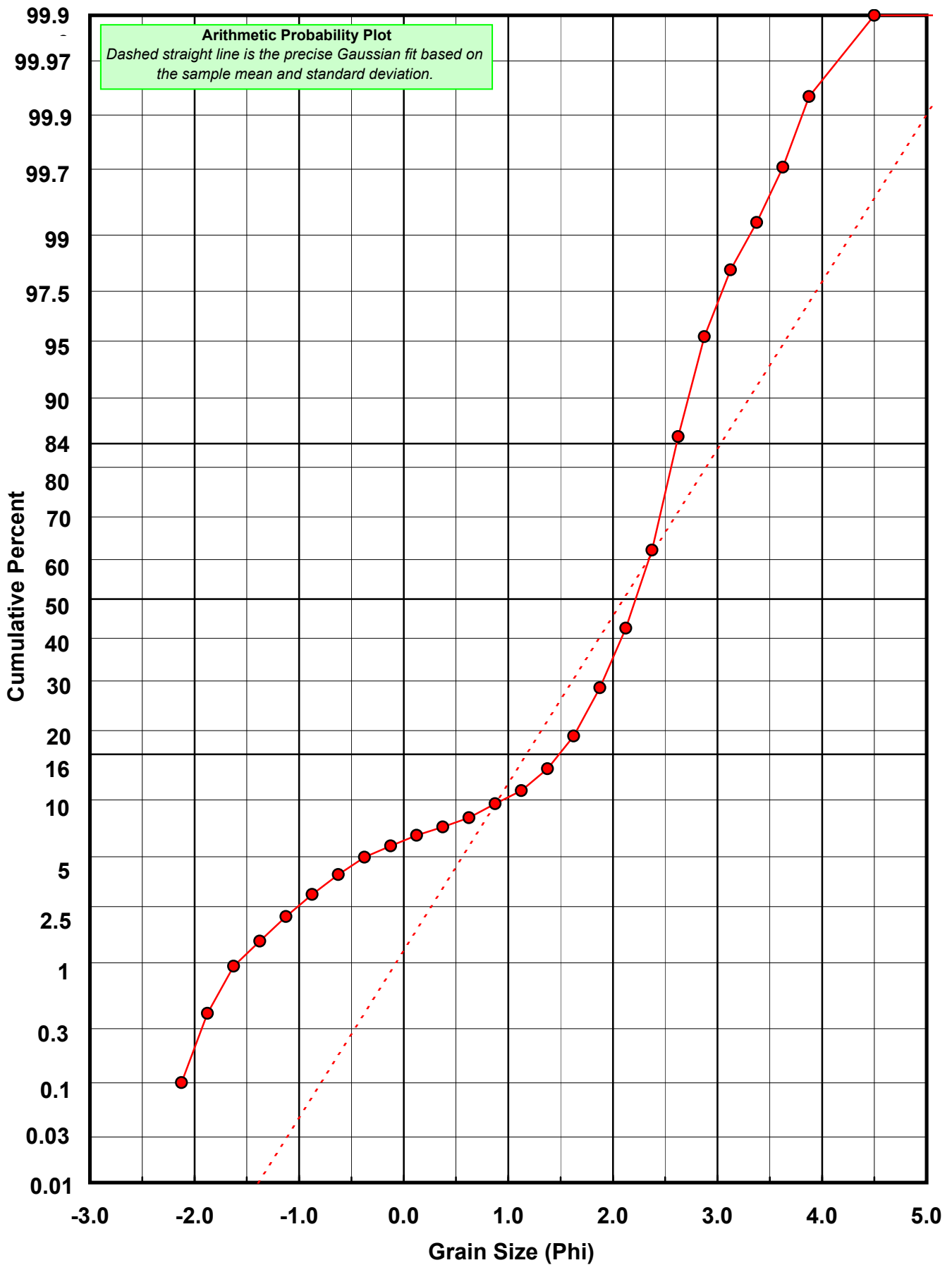
Statistical Results			
Mean:	2.1025	phi	(0.2329 mm)
Standard Dev:	0.9379	phi-units	(0.522 mm)
Skewness:	-2.0337	dimensionless	
Kurtosis:	7.6489	dimensionless	
5th Moment:	-25.5063	dimensionless	
6th Moment:	94.2032	dimensionless	
RARD *	0.4461	dimensionless	
Median	2.2196	phi	(0.2147 mm)

* 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-05-SS

Total Carbonate Mass: 8.035 grams

% Carbonate: 10.0 %

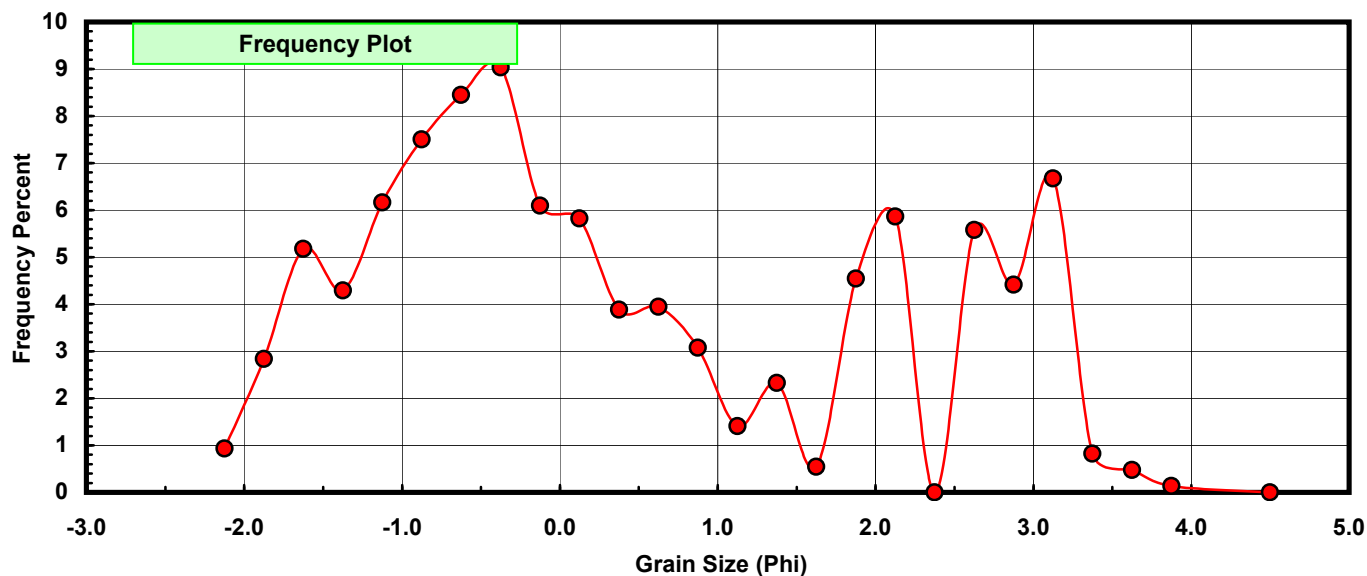
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.075	0.933	0.933
-1.75	-1.875	0.228	2.838	3.771
-1.50	-1.625	0.416	5.177	8.948
-1.25	-1.375	0.345	4.294	13.242
-1.00	-1.125	0.495	6.161	19.403
-0.75	-0.875	0.603	7.505	26.907
-0.50	-0.625	0.679	8.451	35.358
-0.25	-0.375	0.726	9.035	44.393
0.00	-0.125	0.490	6.098	50.492
0.25	0.125	0.468	5.825	56.316
0.50	0.375	0.312	3.883	60.199
0.75	0.625	0.317	3.945	64.144
1.00	0.875	0.247	3.074	67.218
1.25	1.125	0.113	1.406	68.625
1.50	1.375	0.187	2.327	70.952
1.75	1.625	0.044	0.548	71.500
2.00	1.875	0.365	4.543	76.042
2.25	2.125	0.471	5.862	81.904
2.50	2.375	0.000	0.000	81.904
2.75	2.625	0.448	5.576	87.480
3.00	2.875	0.355	4.418	91.898
3.25	3.125	0.536	6.671	98.569
3.50	3.375	0.066	0.821	99.390
3.75	3.625	0.038	0.473	99.863
4.00	3.875	0.011	0.137	100.000
5.00	4.500	0.000	0.000	100.000

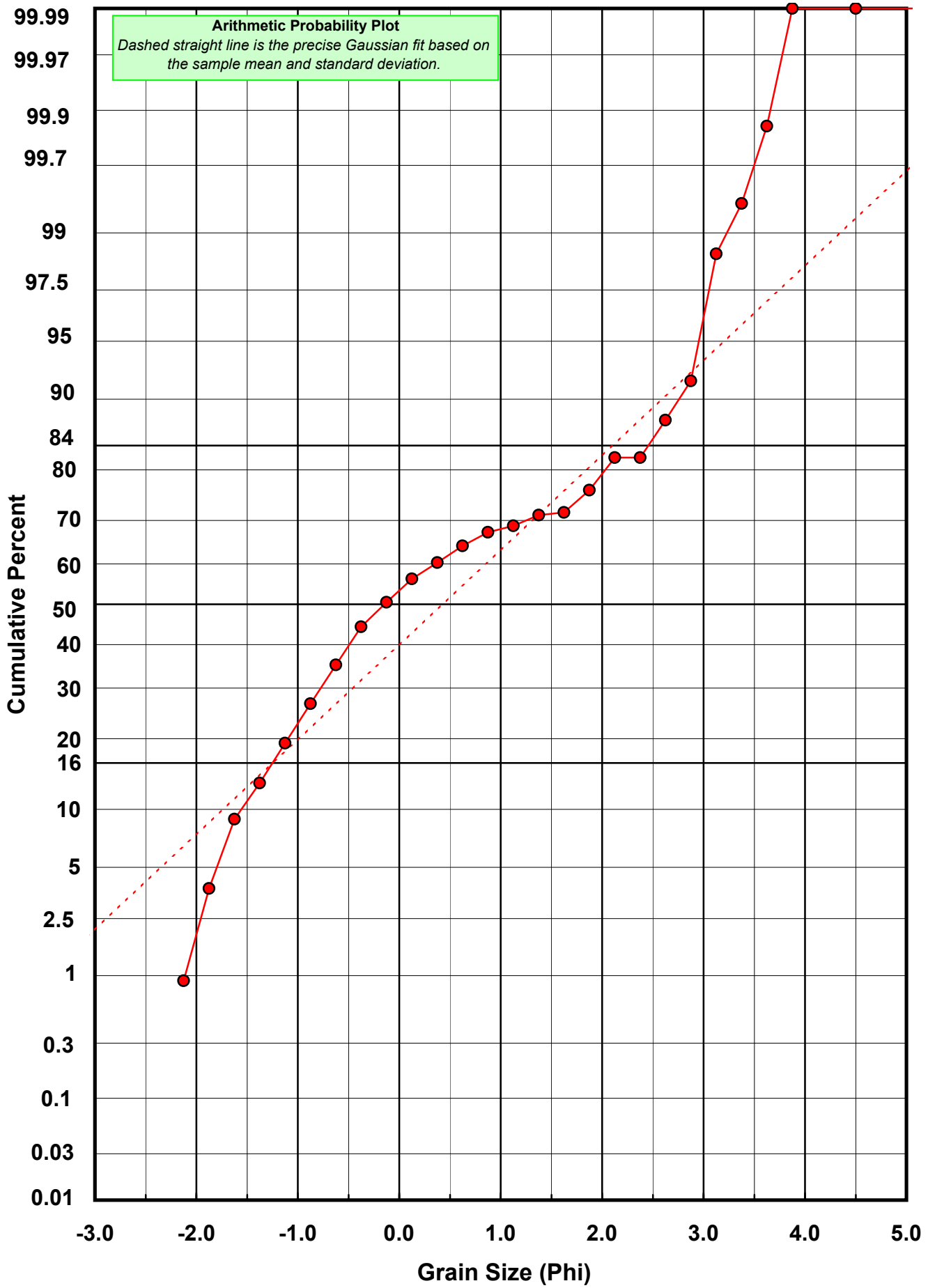
Statistical Results			
Mean:	0.4264	phi	(0.7441 mm)
Standard Dev:	1.6841	phi-units	(0.3112 mm)
Skewness:	0.4031	dimensionless	
Kurtosis:	1.6671	dimensionless	
5th Moment:	1.2668	dimensionless	
6th Moment:	3.4893	dimensionless	
RARD *	3.9498	dimensionless	
Median	-0.1452	phi	(1.1058 mm)

* 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-05-SS

Total Digested Mass: 67.470 grams

% Silica: 90.0 %

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	0.025	0.037	0.037
-1.00	-1.125	0.020	0.030	0.067
-0.75	-0.875	0.014	0.021	0.087
-0.50	-0.625	0.032	0.047	0.135
-0.25	-0.375	0.049	0.073	0.207
0.00	-0.125	0.089	0.132	0.339
0.25	0.125	0.146	0.216	0.556
0.50	0.375	0.223	0.331	0.886
0.75	0.625	0.323	0.479	1.365
1.00	0.875	0.844	1.251	2.616
1.25	1.125	1.019	1.510	4.126
1.50	1.375	2.015	2.987	7.113
1.75	1.625	3.887	5.761	12.874
2.00	1.875	6.760	10.019	22.893
2.25	2.125	9.934	14.724	37.617
2.50	2.375	15.198	22.526	60.142
2.75	2.625	16.636	24.657	84.799
3.00	2.875	7.448	11.039	95.838
3.25	3.125	1.631	2.417	98.256
3.50	3.375	0.666	0.987	99.243
3.75	3.625	0.358	0.531	99.773
4.00	3.875	0.153	0.227	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.3026	phi	(0.2027 mm)
Standard Dev:	0.5433	phi-units	(0.6862 mm)
Skewness:	-1.1778	dimensionless	
Kurtosis:	6.6129	dimensionless	
5th Moment:	-23.4213	dimensionless	
6th Moment:	126.9245	dimensionless	
RARD *	0.2359	dimensionless	
Median	2.2624	phi	(0.2084 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	
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