

Onshore Grab Sample

Sample: SJ-22-BB
Sample Taken By: J. Ladner
Sample Collected On: 12/3/03
Splits? N/A

County: St. Johns
Latitude: 29° 57' 43.1"
Longitude: 81° 18' 24.5"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 67.245 grams
Total Fines in Sample 0.161 grams
Total Percent Fines 0.24 %

Dry Sieving Summary

Total Sample Weight 67.019 grams
Total Digested Weight 49.439 grams
Total Carbonate Weight 17.580 grams
Total Silica % 73.77 %
Total Carbonate % 26.23 %
Carbonate/Silica Ratio 0.356

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-22-BB

Total Sample Mass: 67.019 grams

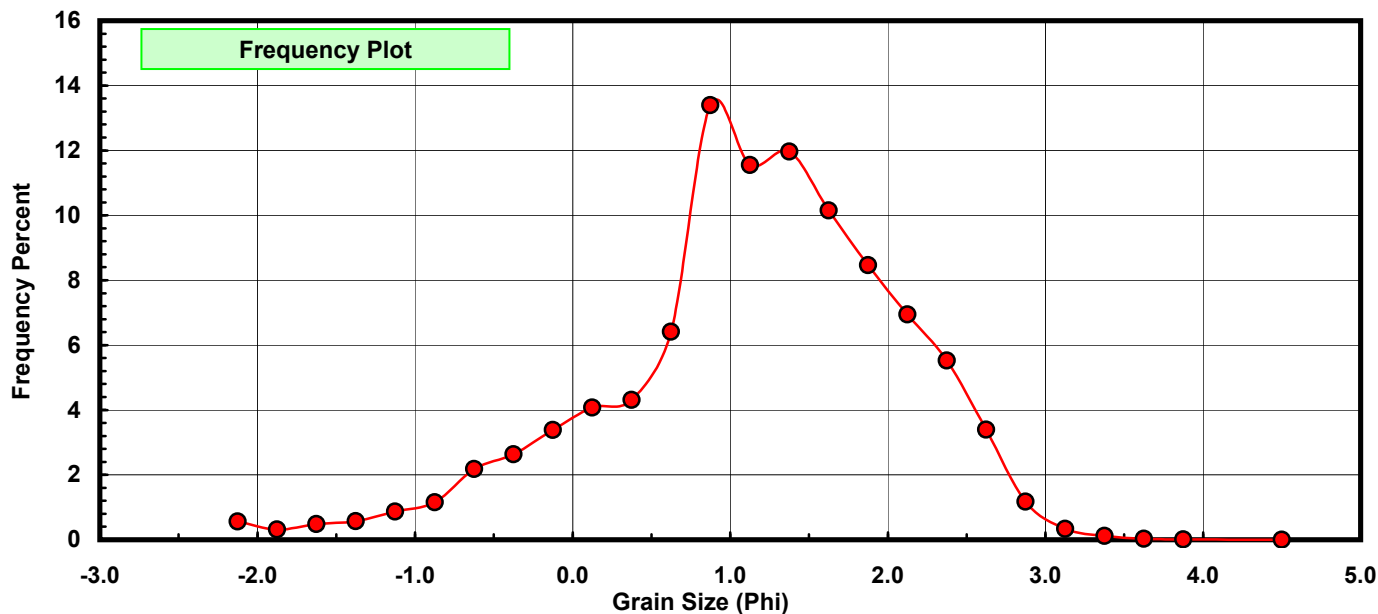
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.374	0.558	0.558
-1.75	-1.875	0.209	0.312	0.870
-1.50	-1.625	0.326	0.486	1.356
-1.25	-1.375	0.381	0.568	1.925
-1.00	-1.125	0.582	0.868	2.793
-0.75	-0.875	0.774	1.155	3.948
-0.50	-0.625	1.462	2.181	6.130
-0.25	-0.375	1.768	2.638	8.768
0.00	-0.125	2.268	3.384	12.152
0.25	0.125	2.730	4.073	16.225
0.50	0.375	2.889	4.311	20.536
0.75	0.625	4.295	6.409	26.945
1.00	0.875	8.981	13.401	40.345
1.25	1.125	7.742	11.552	51.897
1.50	1.375	8.017	11.962	63.860
1.75	1.625	6.803	10.151	74.010
2.00	1.875	5.674	8.466	82.477
2.25	2.125	4.653	6.943	89.419
2.50	2.375	3.702	5.524	94.943
2.75	2.625	2.271	3.389	98.332
3.00	2.875	0.786	1.173	99.505
3.25	3.125	0.224	0.334	99.839
3.50	3.375	0.079	0.118	99.957
3.75	3.625	0.022	0.033	99.990
4.00	3.875	0.005	0.007	99.997
5.00	4.500	0.002	0.003	100.000

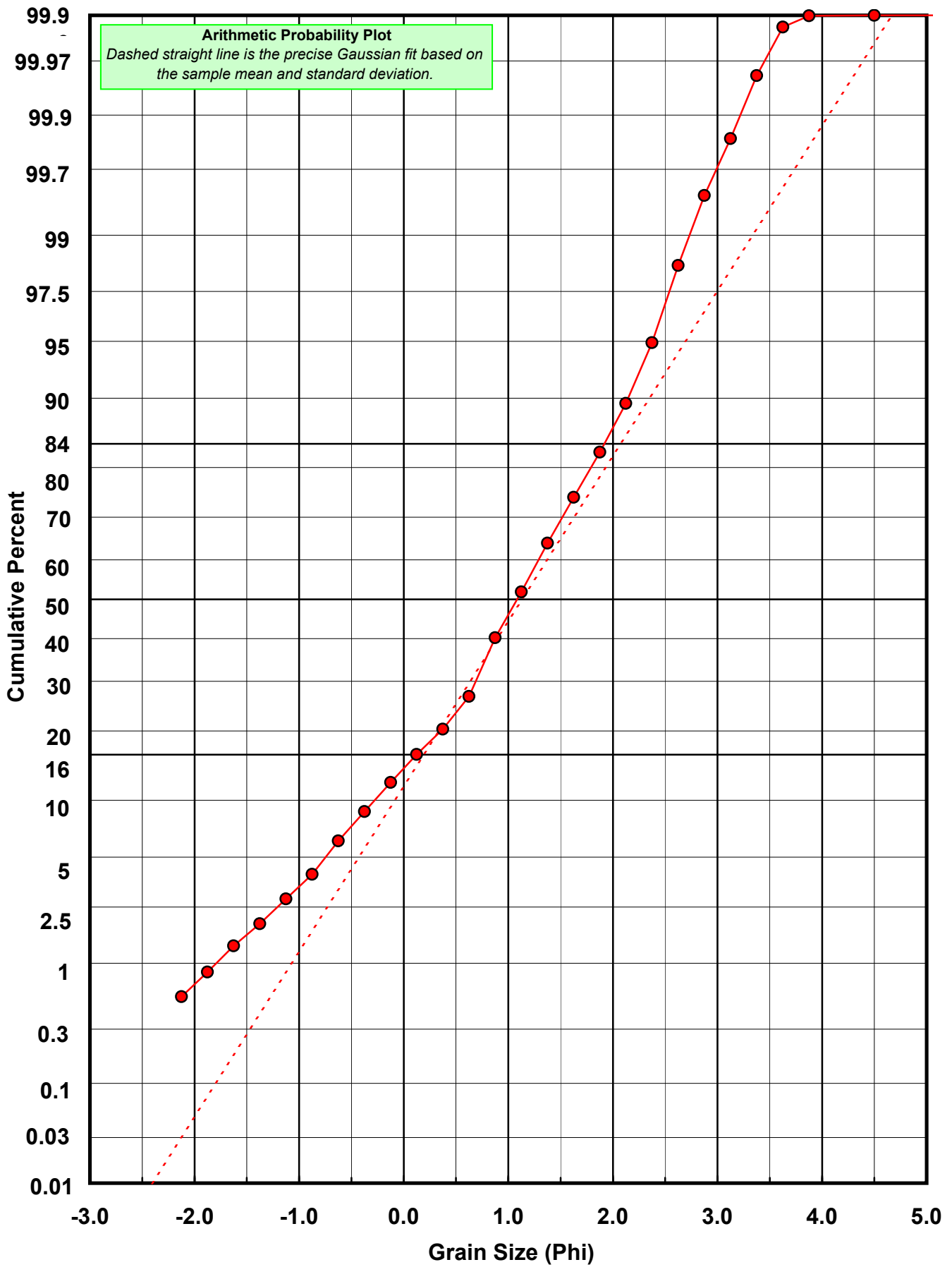
Statistical Results			
Mean:	1.1331	phi	(0.4559 mm)
Standard Dev:	0.9497	phi-units	(0.5177 mm)
Skewness:	-0.6718	dimensionless	
Kurtosis:	3.6243	dimensionless	
5th Moment:	-6.3860	dimensionless	
6th Moment:	23.6406	dimensionless	
RARD *	0.8382	dimensionless	
Median	1.0839	phi	(0.4717 mm)

* 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-22-BB

Total Carbonate Mass: 17.641 grams

% Carbonate: 26.2 %

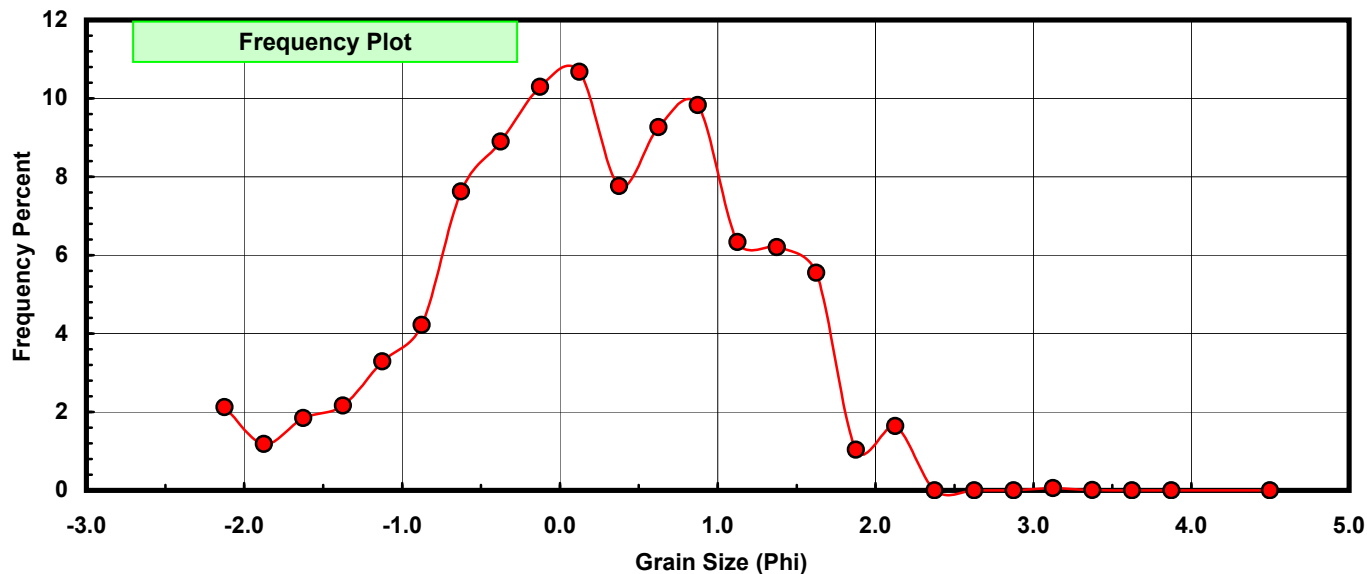
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.374	2.120	2.120
-1.75	-1.875	0.209	1.185	3.305
-1.50	-1.625	0.326	1.848	5.153
-1.25	-1.375	0.381	2.160	7.313
-1.00	-1.125	0.581	3.293	10.606
-0.75	-0.875	0.744	4.217	14.823
-0.50	-0.625	1.345	7.624	22.448
-0.25	-0.375	1.569	8.894	31.342
0.00	-0.125	1.816	10.294	41.636
0.25	0.125	1.884	10.680	52.316
0.50	0.375	1.370	7.766	60.082
0.75	0.625	1.634	9.263	69.344
1.00	0.875	1.734	9.829	79.174
1.25	1.125	1.117	6.332	85.505
1.50	1.375	1.094	6.201	91.707
1.75	1.625	0.979	5.550	97.256
2.00	1.875	0.183	1.037	98.294
2.25	2.125	0.289	1.638	99.932
2.50	2.375	0.000	0.000	99.932
2.75	2.625	0.000	0.000	99.932
3.00	2.875	0.000	0.000	99.932
3.25	3.125	0.010	0.057	99.989
3.50	3.375	0.002	0.011	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

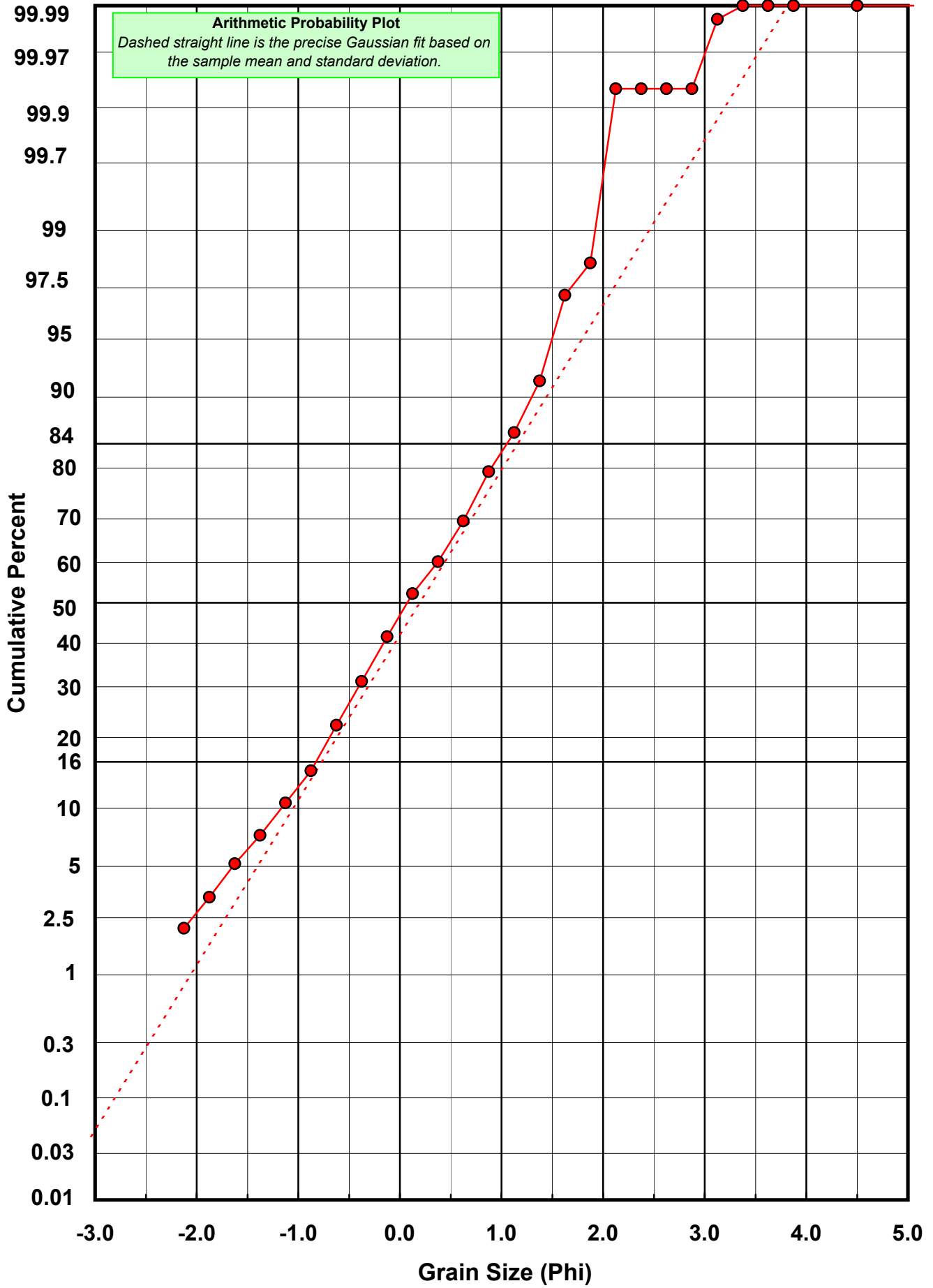
Statistical Results			
Mean:	0.1947	phi	(0.8738 mm)
Standard Dev:	0.9725	phi-units	(0.5096 mm)
Skewness:	-0.2472	dimensionless	
Kurtosis:	2.5511	dimensionless	
5th Moment:	-1.7074	dimensionless	
6th Moment:	9.7005	dimensionless	
RARD *	4.9963	dimensionless	
Median	0.0708	phi	(0.9521 mm)

* 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-22-BB

Total Digested Mass: 49.438 grams

% Silica: 73.8 %

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	0.001	0.002	0.002
-0.75	-0.875	0.030	0.061	0.063
-0.50	-0.625	0.117	0.237	0.299
-0.25	-0.375	0.199	0.403	0.702
0.00	-0.125	0.452	0.914	1.616
0.25	0.125	0.846	1.711	3.327
0.50	0.375	1.519	3.073	6.400
0.75	0.625	2.661	5.382	11.782
1.00	0.875	7.247	14.659	26.441
1.25	1.125	6.625	13.401	39.842
1.50	1.375	6.923	14.003	53.845
1.75	1.625	5.824	11.780	65.626
2.00	1.875	5.491	11.107	76.732
2.25	2.125	4.364	8.827	85.560
2.50	2.375	3.743	7.571	93.131
2.75	2.625	2.275	4.602	97.733
3.00	2.875	0.802	1.622	99.355
3.25	3.125	0.214	0.433	99.788
3.50	3.375	0.077	0.156	99.943
3.75	3.625	0.023	0.047	99.990
4.00	3.875	0.005	0.010	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.4696	phi	(0.3611 mm)
Standard Dev:	0.6858	phi-units	(0.6217 mm)
Skewness:	-0.0050	dimensionless	
Kurtosis:	2.7699	dimensionless	
5th Moment:	-0.7718	dimensionless	
6th Moment:	12.8505	dimensionless	
RARD *	0.4666	dimensionless	
Median	1.3064	phi	(0.4043 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)
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> 1.33	Poor homogeneity (e.g., glacial)

