

Onshore Grab Sample

Sample: SJ-07-BB
Sample Taken By: J. Ladner
Sample Collected On: 12/2/03
Splits? N/A

County: St. Johns
Latitude: 30° 10' 21.2"
Longitude: 81° 21' 30.6"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 78.277 grams
Total Fines in Sample 0.157 grams
Total Percent Fines 0.20 %

Dry Sieving Summary

Total Sample Weight 78.005 grams
Total Digested Weight 49.401 grams
Total Carbonate Weight 28.604 grams
Total Silica % 63.33 %
Total Carbonate % 36.67 %
Carbonate/Silica Ratio 0.579

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-07-BB

Total Sample Mass: 78.005 grams

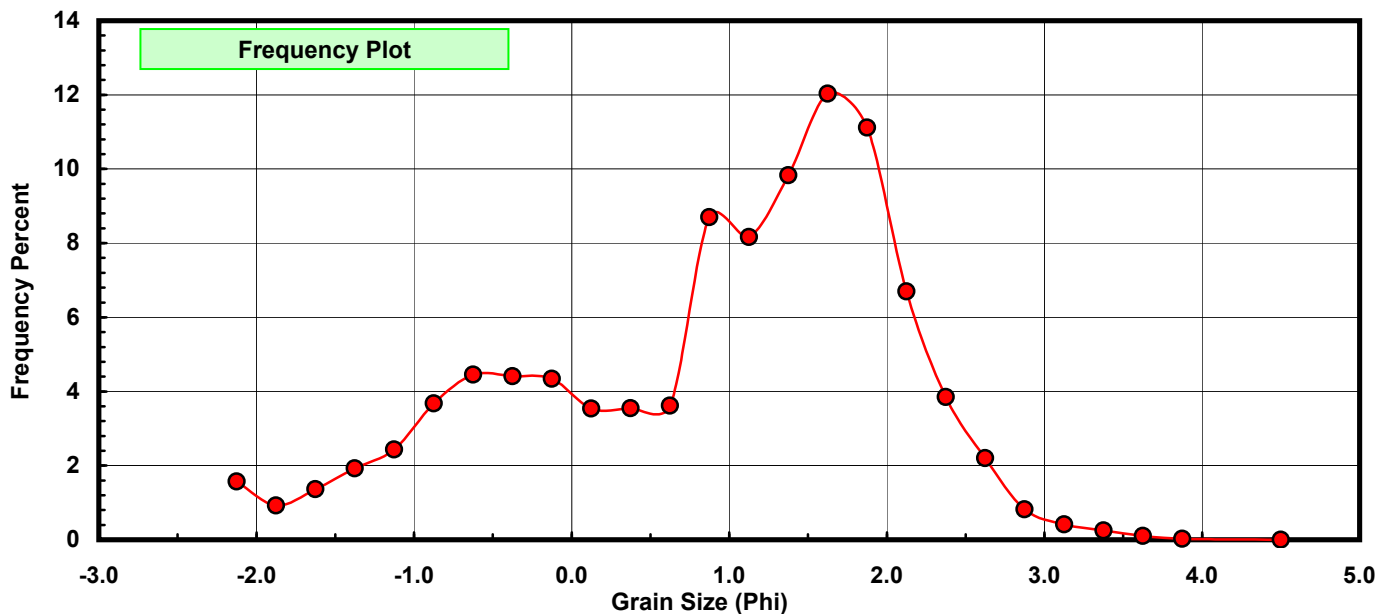
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	1.224	1.569	1.569
-1.75	-1.875	0.720	0.923	2.492
-1.50	-1.625	1.064	1.364	3.856
-1.25	-1.375	1.501	1.924	5.780
-1.00	-1.125	1.897	2.432	8.212
-0.75	-0.875	2.868	3.677	11.889
-0.50	-0.625	3.477	4.457	16.346
-0.25	-0.375	3.439	4.409	20.755
0.00	-0.125	3.387	4.342	25.097
0.25	0.125	2.763	3.542	28.639
0.50	0.375	2.766	3.546	32.185
0.75	0.625	2.821	3.616	35.802
1.00	0.875	6.787	8.701	44.502
1.25	1.125	6.367	8.162	52.665
1.50	1.375	7.666	9.828	62.492
1.75	1.625	9.387	12.034	74.526
2.00	1.875	8.672	11.117	85.643
2.25	2.125	5.224	6.697	92.340
2.50	2.375	3.005	3.852	96.193
2.75	2.625	1.716	2.200	98.392
3.00	2.875	0.640	0.820	99.213
3.25	3.125	0.321	0.412	99.624
3.50	3.375	0.196	0.251	99.876
3.75	3.625	0.078	0.100	99.976
4.00	3.875	0.017	0.022	99.997
5.00	4.500	0.002	0.003	100.000

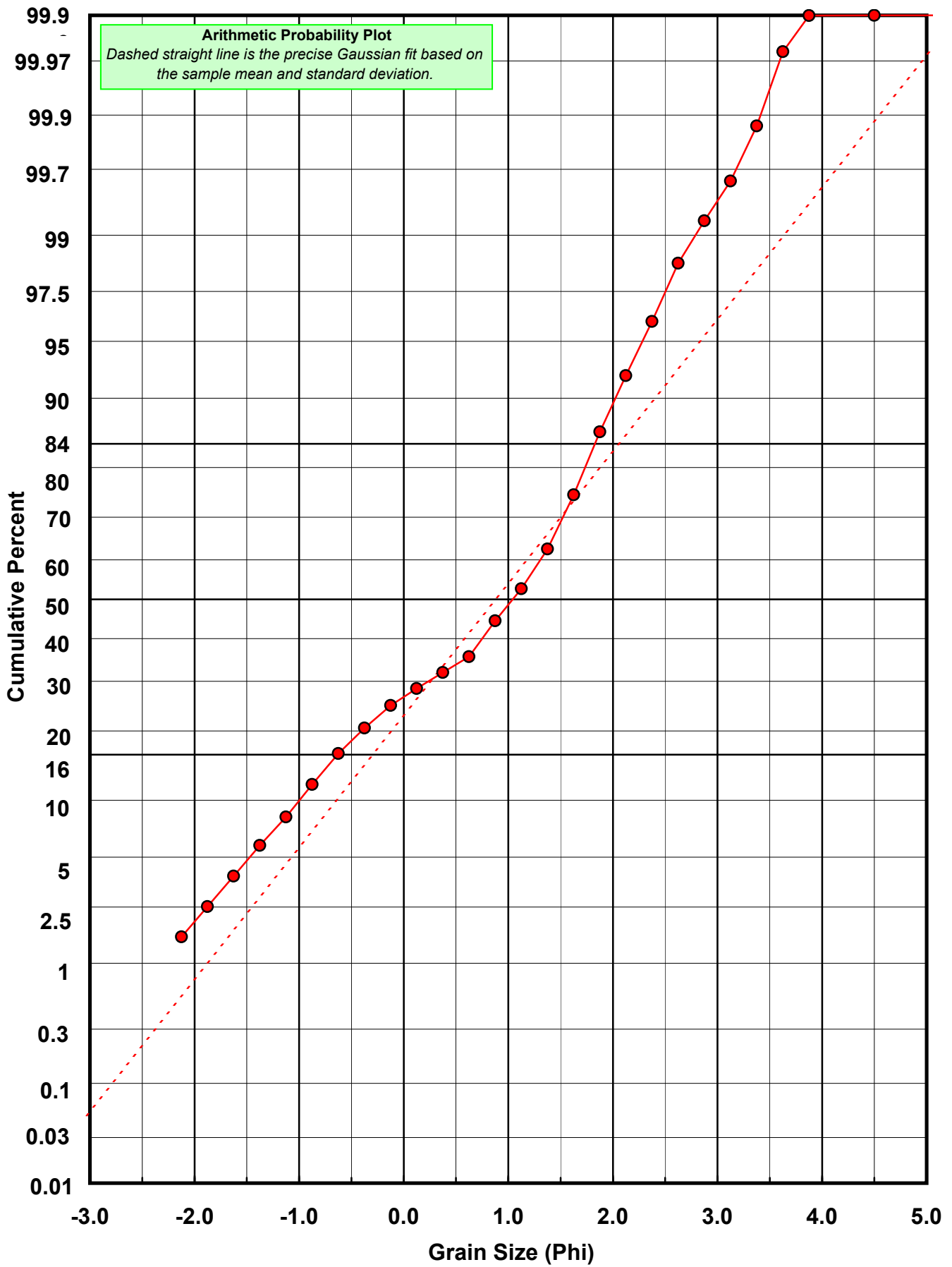
Statistical Results			
Mean:	0.8799	phi	(0.5434 mm)
Standard Dev:	1.1882	phi-units	(0.4389 mm)
Skewness:	-0.6195	dimensionless	
Kurtosis:	2.5940	dimensionless	
5th Moment:	-3.3219	dimensionless	
6th Moment:	10.2983	dimensionless	
RARD *	1.3504	dimensionless	
Median	1.0434	phi	(0.4852 mm)

* 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-07-BB

Total Carbonate Mass: 28.694 grams

% Carbonate: 36.7 %

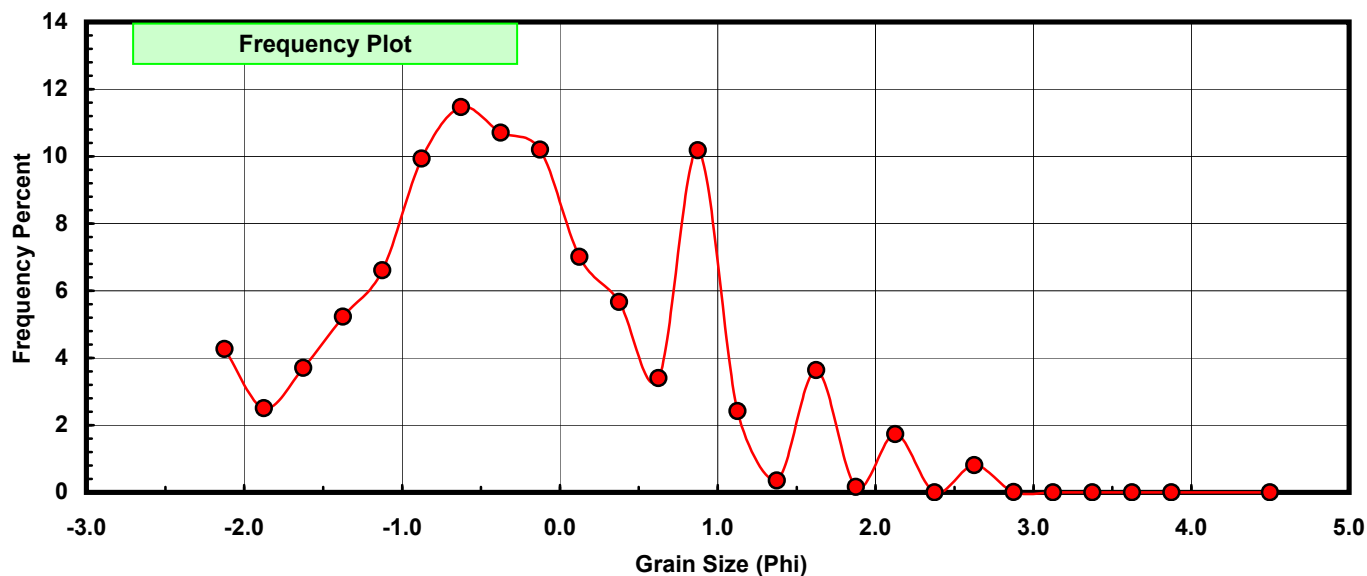
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	1.224	4.266	4.266
-1.75	-1.875	0.720	2.509	6.775
-1.50	-1.625	1.064	3.708	10.483
-1.25	-1.375	1.501	5.231	15.714
-1.00	-1.125	1.897	6.611	22.325
-0.75	-0.875	2.849	9.929	32.254
-0.50	-0.625	3.290	11.466	43.720
-0.25	-0.375	3.072	10.706	54.426
0.00	-0.125	2.926	10.197	64.623
0.25	0.125	2.010	7.005	71.628
0.50	0.375	1.625	5.663	77.291
0.75	0.625	0.976	3.401	80.693
1.00	0.875	2.920	10.176	90.869
1.25	1.125	0.695	2.422	93.291
1.50	1.375	0.101	0.352	93.643
1.75	1.625	1.045	3.642	97.285
2.00	1.875	0.046	0.160	97.445
2.25	2.125	0.498	1.736	99.181
2.50	2.375	0.000	0.000	99.181
2.75	2.625	0.232	0.809	99.990
3.00	2.875	0.003	0.010	100.000
3.25	3.125	0.000	0.000	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

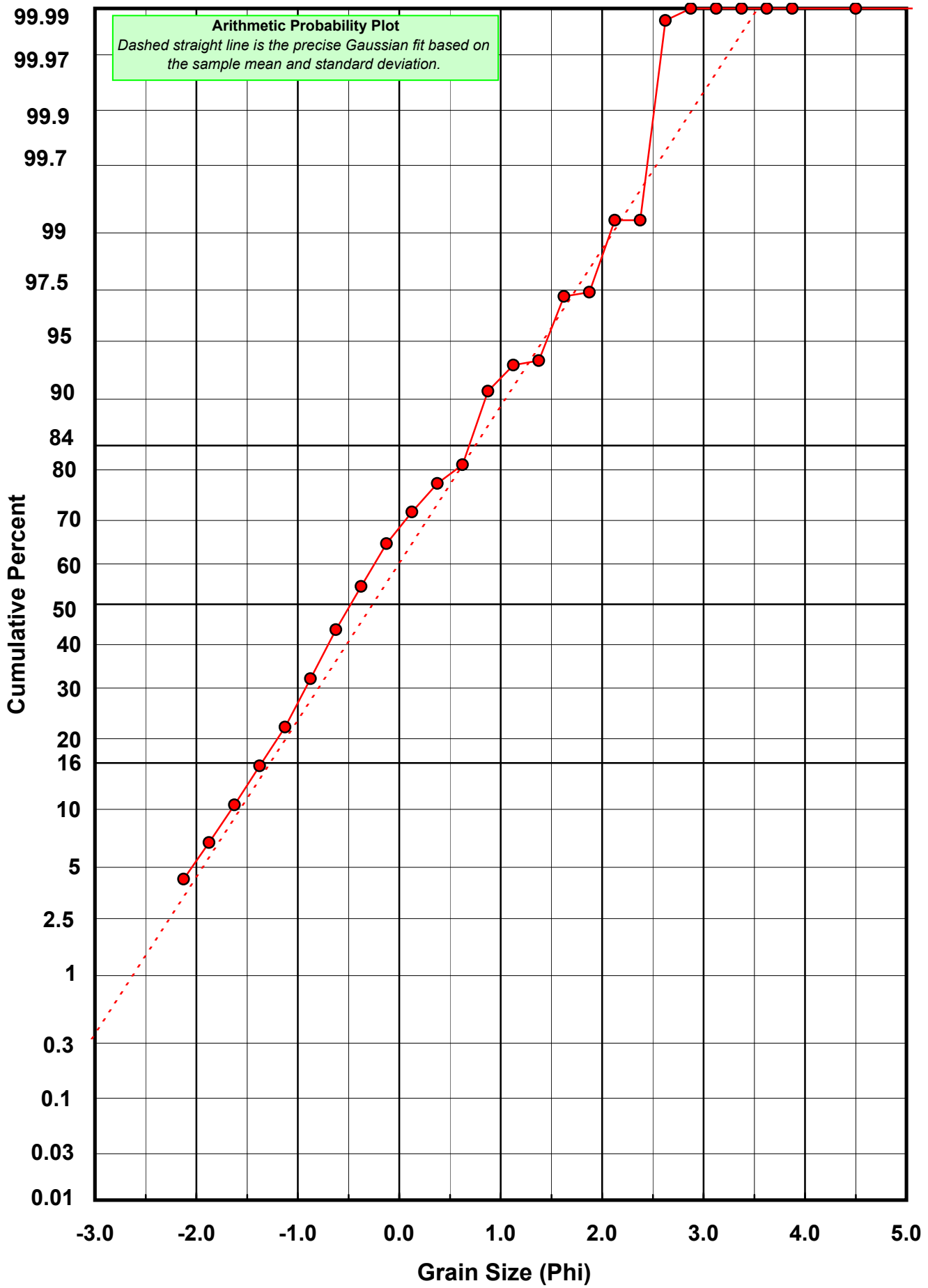
Statistical Results			
Mean:	-0.2627	phi	(1.1997 mm)
Standard Dev:	1.0200	phi-units	(0.4931 mm)
Skewness:	0.3423	dimensionless	
Kurtosis:	2.7696	dimensionless	
5th Moment:	2.6276	dimensionless	
6th Moment:	11.8487	dimensionless	
RARD *	3.8825	dimensionless	
Median	-0.4784	phi	(1.3932 mm)

* 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-07-BB

Total Digested Mass: 49.396 grams

% Silica: 63.3 %

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	0.019	0.038	0.038
-0.50	-0.625	0.187	0.379	0.417
-0.25	-0.375	0.367	0.743	1.160
0.00	-0.125	0.461	0.933	2.093
0.25	0.125	0.753	1.524	3.618
0.50	0.375	1.141	2.310	5.928
0.75	0.625	1.845	3.735	9.663
1.00	0.875	3.867	7.829	17.491
1.25	1.125	5.672	11.483	28.974
1.50	1.375	7.565	15.315	44.289
1.75	1.625	8.342	16.888	61.177
2.00	1.875	8.626	17.463	78.640
2.25	2.125	4.726	9.568	88.208
2.50	2.375	3.042	6.158	94.366
2.75	2.625	1.484	3.004	97.370
3.00	2.875	0.637	1.290	98.660
3.25	3.125	0.355	0.719	99.378
3.50	3.375	0.200	0.405	99.783
3.75	3.625	0.087	0.176	99.960
4.00	3.875	0.020	0.040	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.5470	phi	(0.3422 mm)
Standard Dev:	0.6556	phi-units	(0.6348 mm)
Skewness:	-0.2993	dimensionless	
Kurtosis:	3.7630	dimensionless	
5th Moment:	-2.7965	dimensionless	
6th Moment:	24.1560	dimensionless	
RARD *	0.4238	dimensionless	
Median	1.4595	phi	(0.3636 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)

