

## **Onshore Grab Sample**

**Sample:** SJ-01-B  
**Sample Taken By:** J. Ladner  
**Sample Collected On:** 12/4/02  
**Splits?** N/A

**County:** St. Johns  
**Latitude:** 30° 14' 43.8"  
**Longitude:** 81° 22' 43.5"  
**Datum:** WGS 84  
**Surf. Elev:** N/A  
**Datum:** N/A

### **Fine Data Summary**

Total Sample Weight	69.161 grams
Total Fines in Sample	0.042 grams
Total Percent Fines	0.06 %

### **Dry Sieving Summary**

Total Sample Weight	69.110 grams
Total Digested Weight	66.657 grams
Total Carbonate Weight	2.453 grams
Total Silica %	96.45 %
Total Carbonate %	3.55 %
Carbonate/Silica Ratio	0.037

### **General Comments:**

None

### **Description**

Worked By: C. Fischler  
Reviewed and Edited By: M. Ladle

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-01-B

Total Sample Mass: 69.110 grams

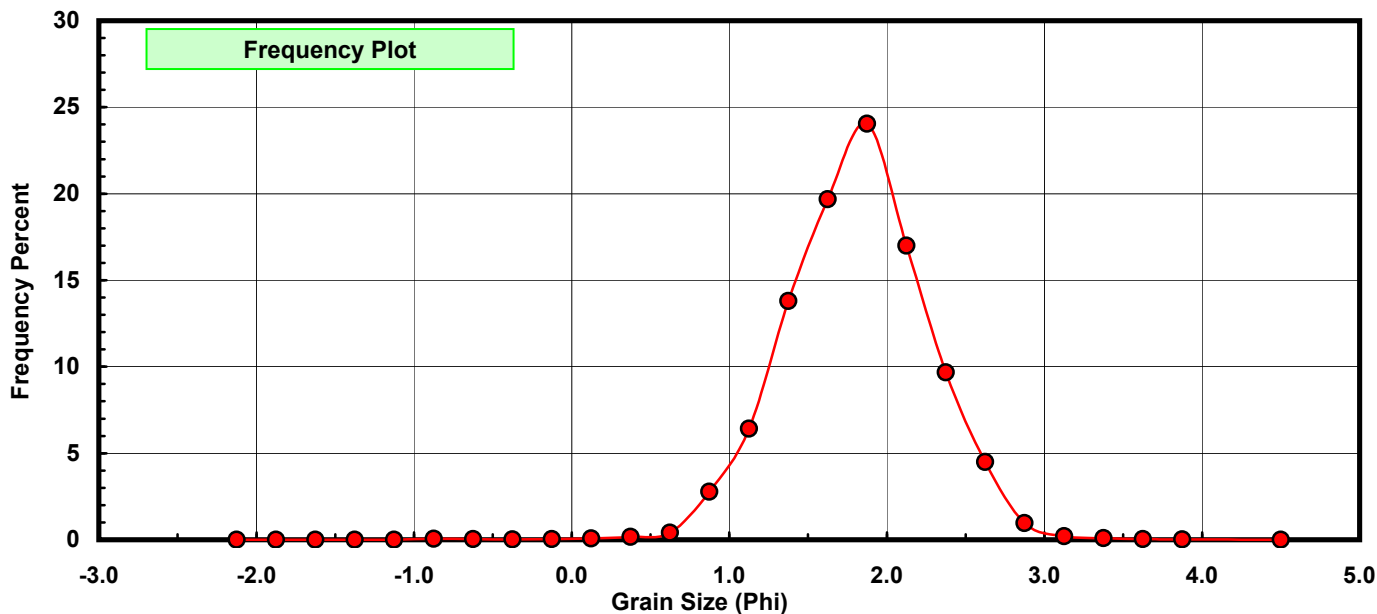
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.033	0.048	0.048
-0.50	-0.625	0.029	0.042	0.090
-0.25	-0.375	0.019	0.027	0.117
0.00	-0.125	0.029	0.042	0.159
0.25	0.125	0.049	0.071	0.230
0.50	0.375	0.110	0.159	0.389
0.75	0.625	0.277	0.401	0.790
1.00	0.875	1.920	2.778	3.568
1.25	1.125	4.432	6.413	9.981
1.50	1.375	9.542	13.807	23.788
1.75	1.625	13.604	19.685	43.473
2.00	1.875	16.615	24.041	67.514
2.25	2.125	11.750	17.002	84.516
2.50	2.375	6.686	9.674	94.190
2.75	2.625	3.106	4.494	98.685
3.00	2.875	0.663	0.959	99.644
3.25	3.125	0.140	0.203	99.847
3.50	3.375	0.061	0.088	99.935
3.75	3.625	0.029	0.042	99.977
4.00	3.875	0.013	0.019	99.996
5.00	4.500	0.003	0.004	100.000

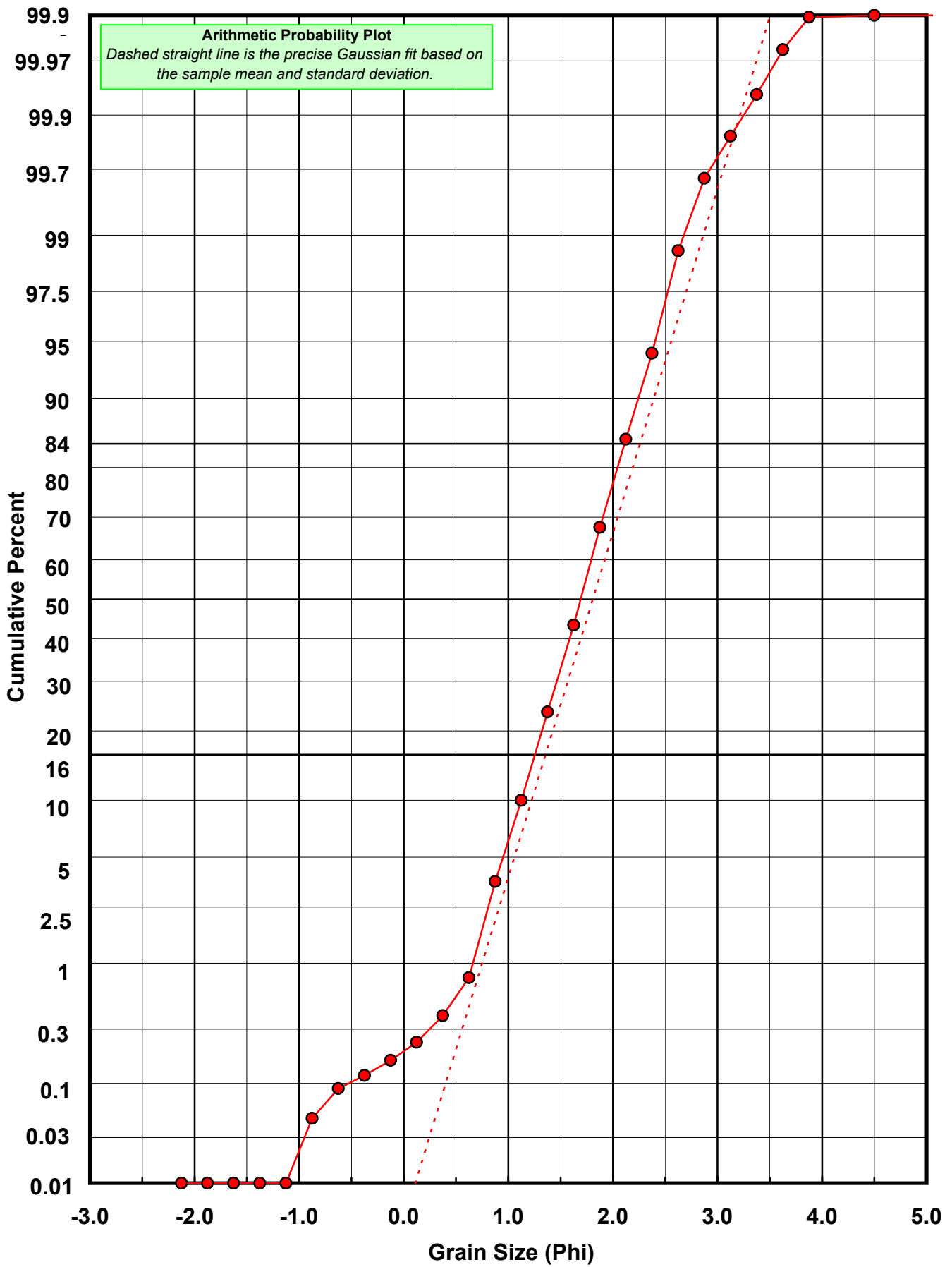
Statistical Results			
Mean:	1.8077	phi	(0.2857 mm)
Standard Dev:	0.4557	phi-units	(0.7292 mm)
Skewness:	-0.2009	dimensionless	
Kurtosis:	4.1830	dimensionless	
5th Moment:	-5.8293	dimensionless	
6th Moment:	54.8638	dimensionless	
RARD *	0.2521	dimensionless	
Median	1.6929	phi	(0.3093 mm)

\* 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-01-B

Total Carbonate Mass: 2.653 grams

% Carbonate: 3.5 %

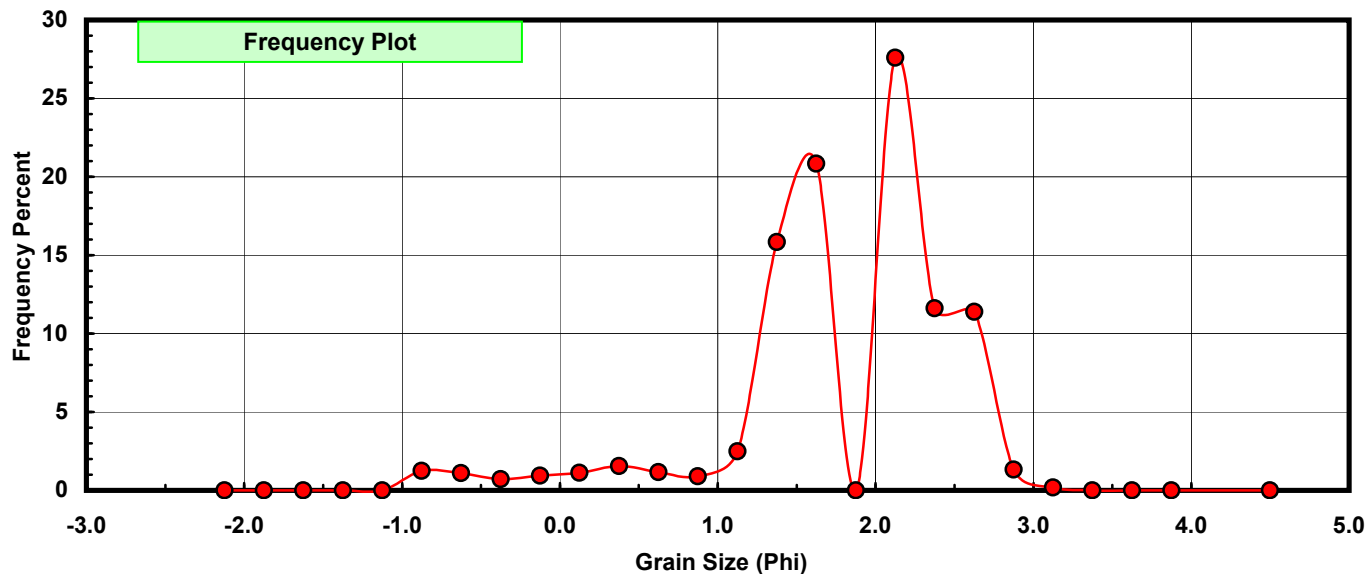
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.033	1.244	1.244
-0.50	-0.625	0.029	1.093	2.337
-0.25	-0.375	0.019	0.716	3.053
0.00	-0.125	0.025	0.942	3.995
0.25	0.125	0.030	1.131	5.126
0.50	0.375	0.041	1.545	6.672
0.75	0.625	0.031	1.168	7.840
1.00	0.875	0.024	0.905	8.745
1.25	1.125	0.066	2.488	11.233
1.50	1.375	0.420	15.831	27.064
1.75	1.625	0.553	20.844	47.908
2.00	1.875	0.000	0.000	47.908
2.25	2.125	0.732	27.591	75.499
2.50	2.375	0.308	11.609	87.109
2.75	2.625	0.302	11.383	98.492
3.00	2.875	0.035	1.319	99.812
3.25	3.125	0.005	0.188	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

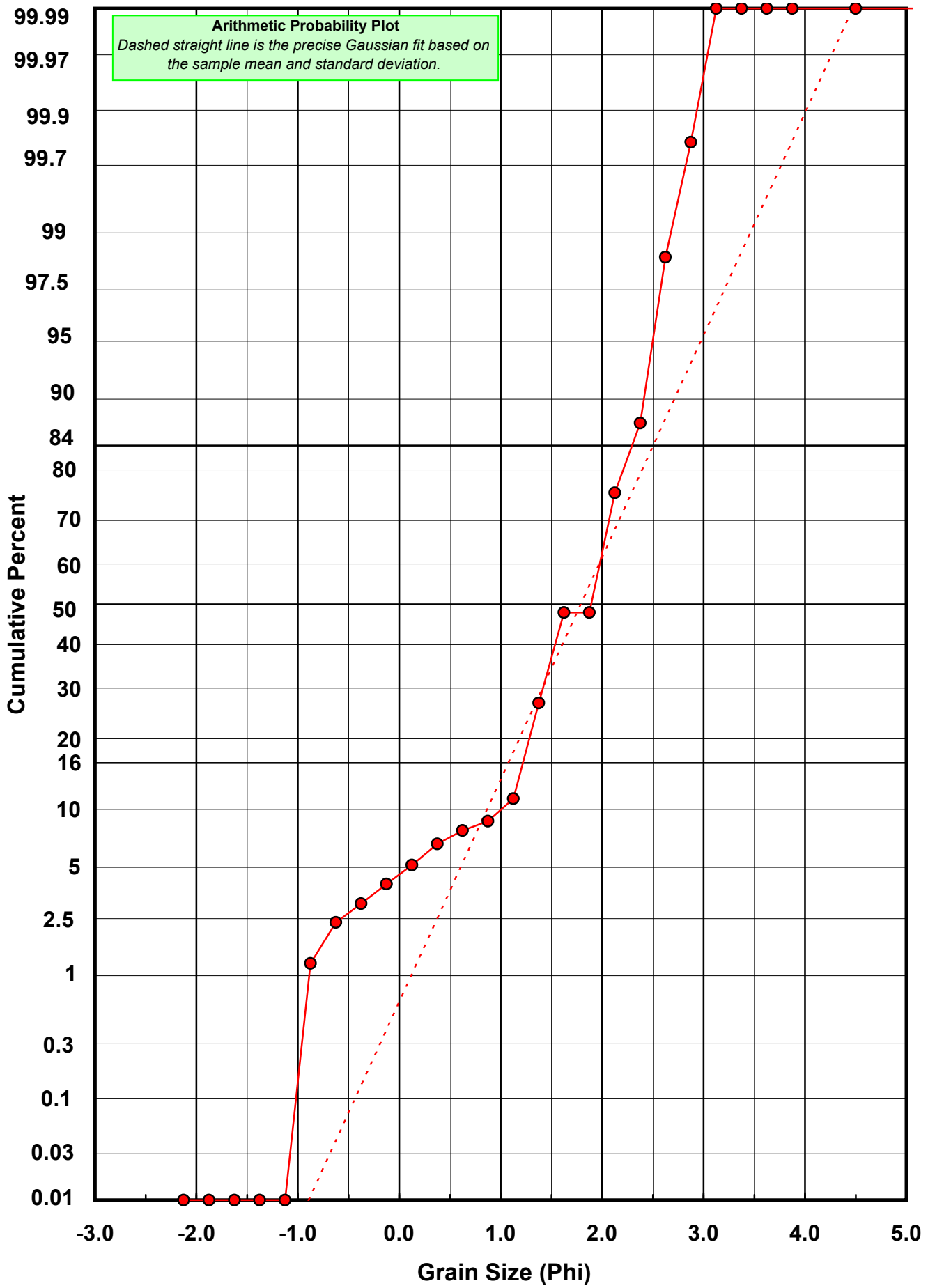
Statistical Results			
Mean:	1.7899	phi	(0.2892 mm)
Standard Dev:	0.7203	phi-units	(0.607 mm)
Skewness:	-1.4659	dimensionless	
Kurtosis:	5.8183	dimensionless	
5th Moment:	-17.2147	dimensionless	
6th Moment:	59.4507	dimensionless	
RARD *	0.4024	dimensionless	
Median	1.8940	phi	(0.2691 mm)

\* 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-01-B

Total Digested Mass: 66.652 grams

% Silica: 96.5 %

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	0.004	0.006	0.006
0.25	0.125	0.019	0.029	0.035
0.50	0.375	0.069	0.104	0.138
0.75	0.625	0.246	0.369	0.507
1.00	0.875	1.896	2.845	3.352
1.25	1.125	4.366	6.550	9.902
1.50	1.375	9.122	13.686	23.588
1.75	1.625	13.051	19.581	43.169
2.00	1.875	16.795	25.198	68.367
2.25	2.125	11.018	16.531	84.898
2.50	2.375	6.378	9.569	94.467
2.75	2.625	2.804	4.207	98.674
3.00	2.875	0.628	0.942	99.616
3.25	3.125	0.135	0.203	99.818
3.50	3.375	0.069	0.104	99.922
3.75	3.625	0.035	0.053	99.974
4.00	3.875	0.017	0.026	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.8089	phi	(0.2854 mm)
Standard Dev:	0.4416	phi-units	(0.7363 mm)
Skewness:	0.0404	dimensionless	
Kurtosis:	3.2255	dimensionless	
5th Moment:	1.1800	dimensionless	
6th Moment:	20.4562	dimensionless	
RARD *	0.2441	dimensionless	
Median	1.6928	phi	(0.3093 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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