

**Onshore Grab Sample**

**Sample:** SJ-24-SS  
**Sample Taken By:** J. Ladner  
**Sample Collected On:** 12/3/03  
**Splits?** N/A

**County:** St. Johns  
**Latitude:** 29° 56' 6.6"  
**Longitude:** 81° 17' 53.8"  
**Datum:** WGS 84  
**Surf. Elev:** N/A  
**Datum:** N/A

**Fine Data Summary**

Total Sample Weight 64.654 grams  
Total Fines in Sample 0.111 grams  
Total Percent Fines 0.17 %

**Dry Sieving Summary**

Total Sample Weight 64.220 grams  
Total Digested Weight 36.990 grams  
Total Carbonate Weight 27.230 grams  
Total Silica % 57.60 %  
Total Carbonate % 42.40 %  
Carbonate/Silica Ratio 0.736

**General Comments:**

None

**Description**

Worked By: M. Lachance

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-24-SS

Total Sample Mass: 64.220 grams

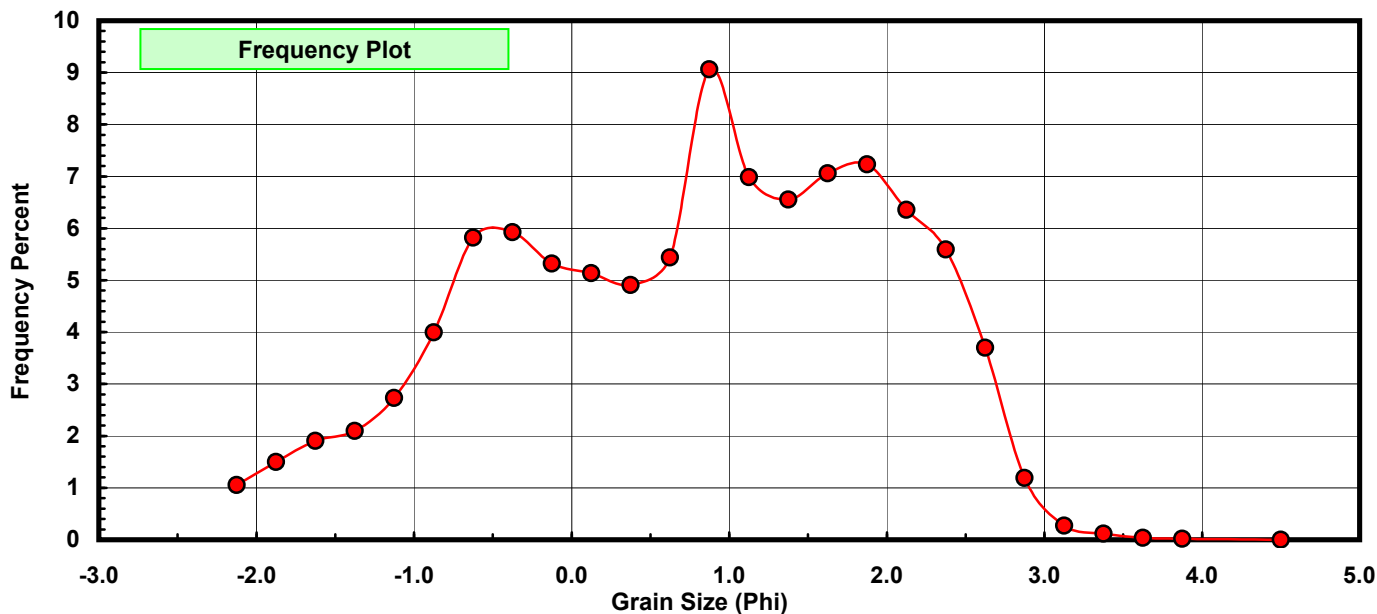
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.679	1.057	1.057
-1.75	-1.875	0.961	1.496	2.554
-1.50	-1.625	1.224	1.906	4.460
-1.25	-1.375	1.347	2.097	6.557
-1.00	-1.125	1.752	2.728	9.285
-0.75	-0.875	2.565	3.994	13.279
-0.50	-0.625	3.736	5.818	19.097
-0.25	-0.375	3.804	5.923	25.020
0.00	-0.125	3.417	5.321	30.341
0.25	0.125	3.299	5.137	35.478
0.50	0.375	3.150	4.905	40.383
0.75	0.625	3.491	5.436	45.819
1.00	0.875	5.820	9.063	54.882
1.25	1.125	4.485	6.984	61.865
1.50	1.375	4.209	6.554	68.419
1.75	1.625	4.535	7.062	75.481
2.00	1.875	4.644	7.231	82.713
2.25	2.125	4.083	6.358	89.070
2.50	2.375	3.592	5.593	94.664
2.75	2.625	2.375	3.698	98.362
3.00	2.875	0.765	1.191	99.553
3.25	3.125	0.175	0.273	99.826
3.50	3.375	0.076	0.118	99.944
3.75	3.625	0.024	0.037	99.981
4.00	3.875	0.011	0.017	99.998
5.00	4.500	0.001	0.002	100.000

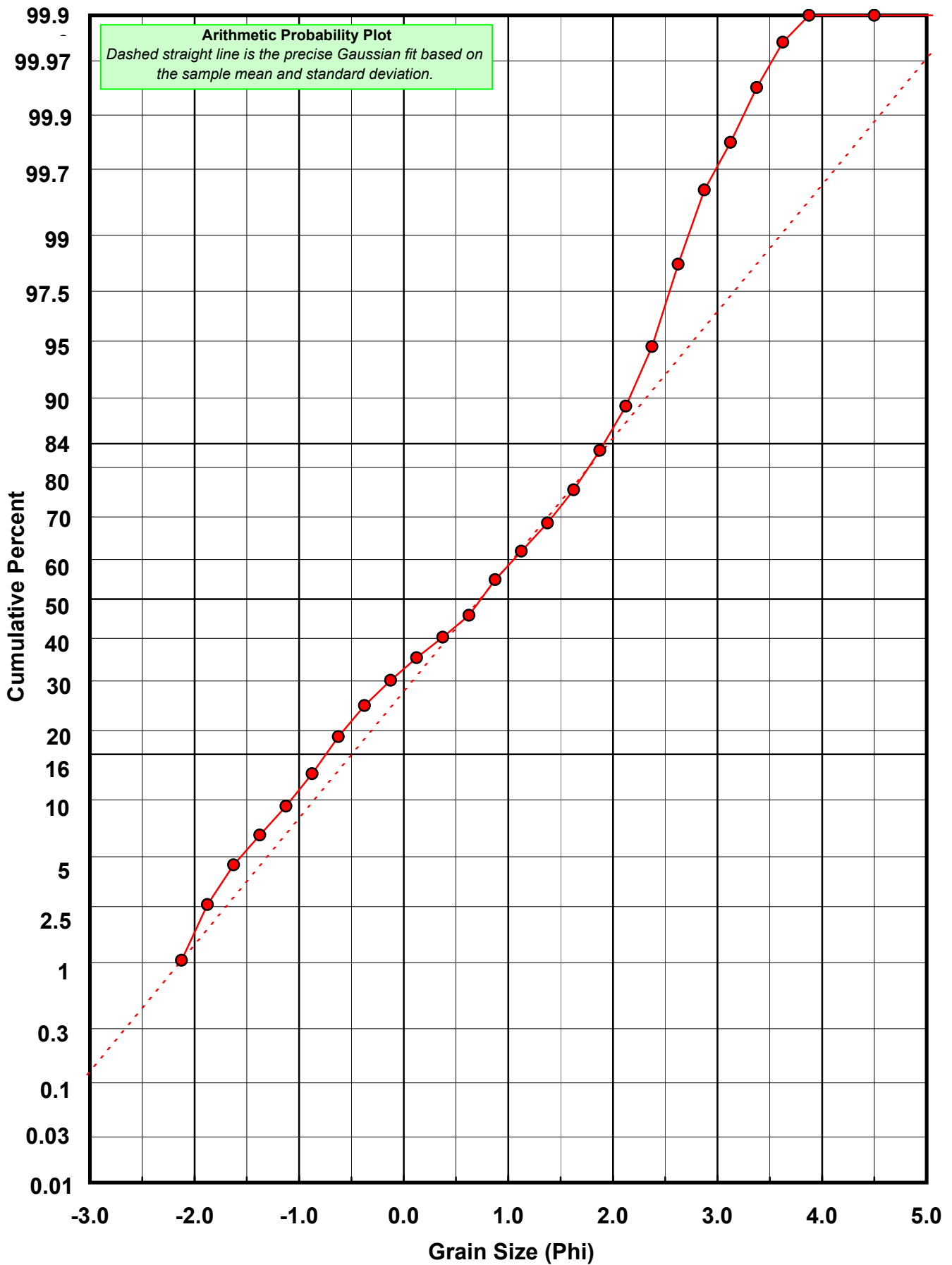
Statistical Results			
Mean:	0.7298	phi	(0.603 mm)
Standard Dev:	1.2384	phi-units	(0.4238 mm)
Skewness:	-0.2772	dimensionless	
Kurtosis:	2.1823	dimensionless	
5th Moment:	-1.5014	dimensionless	
6th Moment:	6.6905	dimensionless	
RARD *	1.6970	dimensionless	
Median	0.7403	phi	(0.5986 mm)

\* 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-24-SS

Total Carbonate Mass: 27.236 grams

% Carbonate: 42.4 %

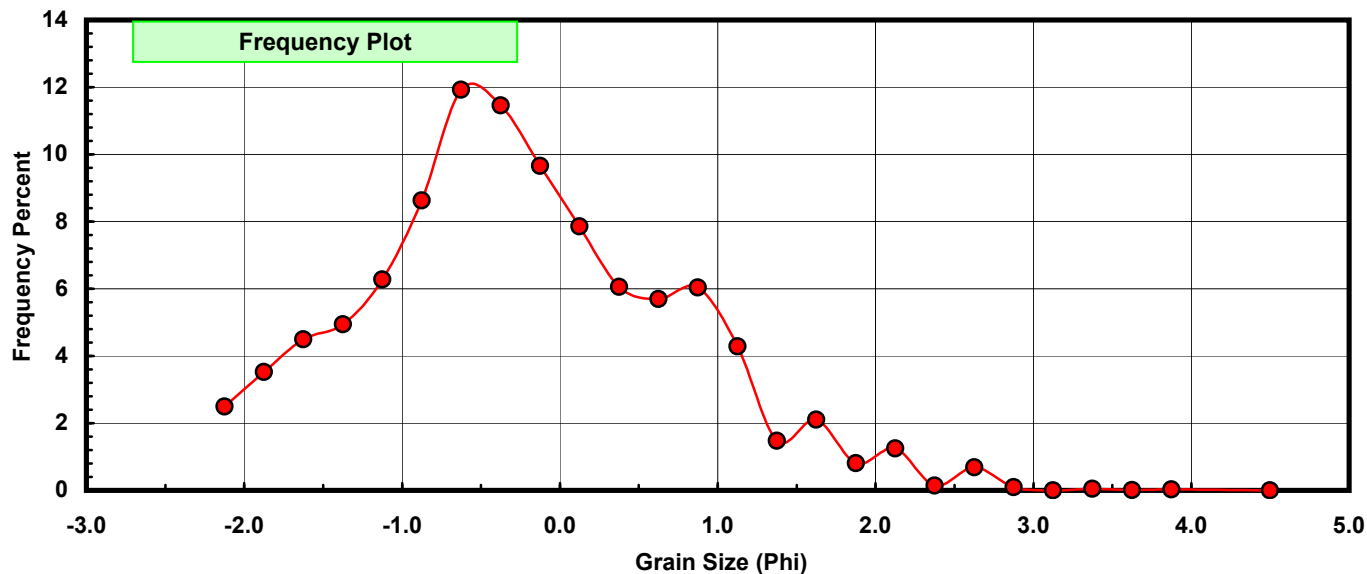
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.679	2.493	2.493
-1.75	-1.875	0.961	3.528	6.021
-1.50	-1.625	1.224	4.494	10.515
-1.25	-1.375	1.347	4.946	15.461
-1.00	-1.125	1.709	6.275	21.736
-0.75	-0.875	2.349	8.625	30.361
-0.50	-0.625	3.247	11.922	42.282
-0.25	-0.375	3.120	11.455	53.738
0.00	-0.125	2.630	9.656	63.394
0.25	0.125	2.139	7.854	71.248
0.50	0.375	1.651	6.062	77.309
0.75	0.625	1.552	5.698	83.008
1.00	0.875	1.644	6.036	89.044
1.25	1.125	1.168	4.288	93.332
1.50	1.375	0.403	1.480	94.812
1.75	1.625	0.573	2.104	96.916
2.00	1.875	0.221	0.811	97.727
2.25	2.125	0.341	1.252	98.979
2.50	2.375	0.039	0.143	99.122
2.75	2.625	0.186	0.683	99.805
3.00	2.875	0.027	0.099	99.905
3.25	3.125	0.000	0.000	99.905
3.50	3.375	0.014	0.051	99.956
3.75	3.625	0.003	0.011	99.967
4.00	3.875	0.009	0.033	100.000
5.00	4.500	0.000	0.000	100.000

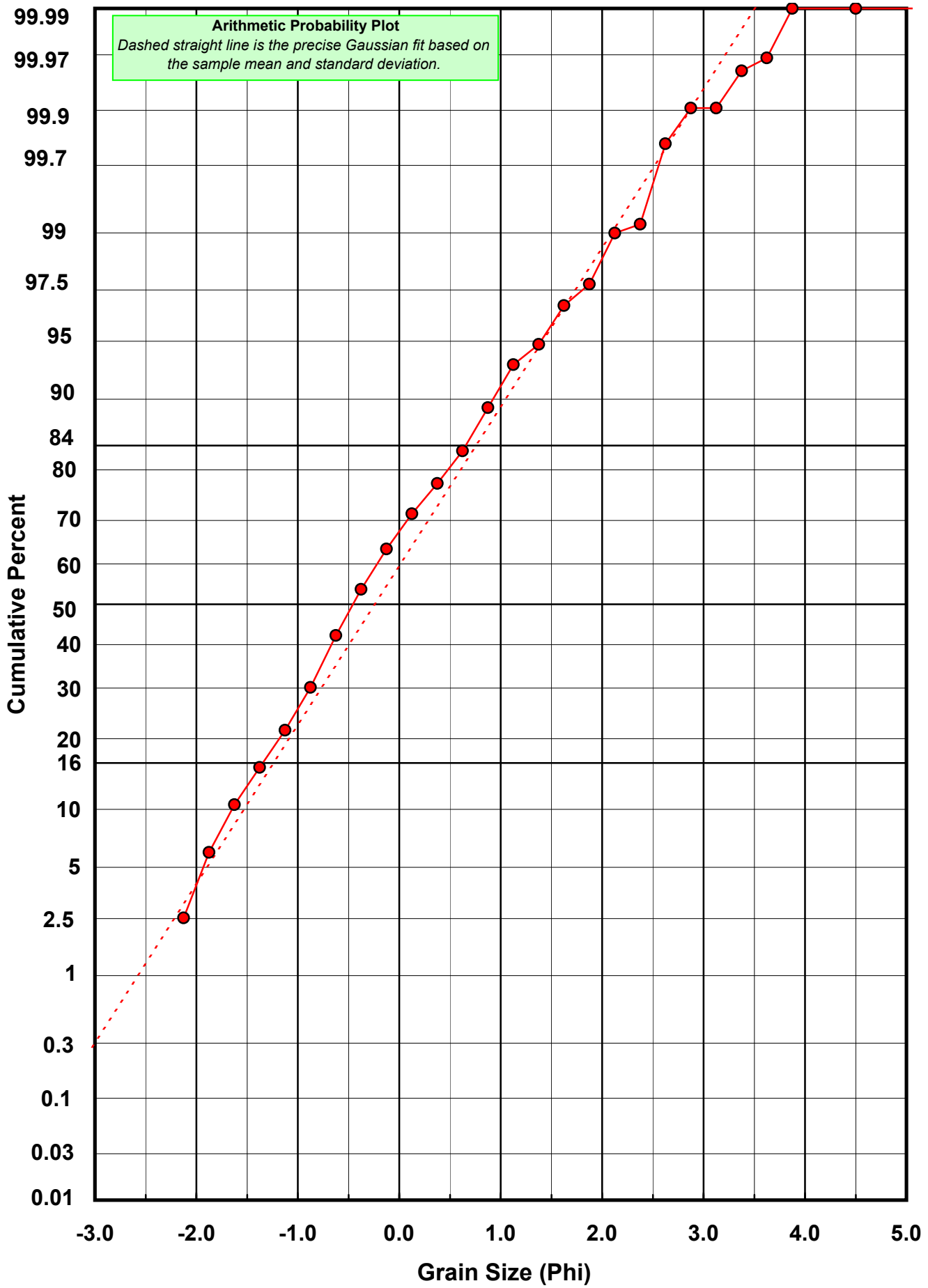
Statistical Results			
Mean:	-0.2426	phi	(1.1831 mm)
Standard Dev:	1.0067	phi-units	(0.4977 mm)
Skewness:	0.3874	dimensionless	
Kurtosis:	2.9253	dimensionless	
5th Moment:	3.5136	dimensionless	
6th Moment:	15.0090	dimensionless	
RARD *	4.1498	dimensionless	
Median	-0.4566	phi	(1.3723 mm)

\* 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-24-SS

Total Digested Mass: 36.988 grams

% Silica: 57.6 %

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	0.043	0.116	0.116
-0.75	-0.875	0.216	0.584	0.700
-0.50	-0.625	0.489	1.322	2.022
-0.25	-0.375	0.684	1.849	3.872
0.00	-0.125	0.787	2.128	5.999
0.25	0.125	1.160	3.136	9.135
0.50	0.375	1.499	4.053	13.188
0.75	0.625	1.939	5.242	18.430
1.00	0.875	4.176	11.290	29.720
1.25	1.125	3.317	8.968	38.688
1.50	1.375	3.806	10.290	48.978
1.75	1.625	3.962	10.712	59.690
2.00	1.875	4.423	11.958	71.648
2.25	2.125	3.742	10.117	81.764
2.50	2.375	3.553	9.606	91.370
2.75	2.625	2.189	5.918	97.288
3.00	2.875	0.738	1.995	99.284
3.25	3.125	0.180	0.487	99.770
3.50	3.375	0.062	0.168	99.938
3.75	3.625	0.021	0.057	99.995
4.00	3.875	0.002	0.005	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.4460	phi	(0.367 mm)
Standard Dev:	0.8444	phi-units	(0.5569 mm)
Skewness:	-0.4504	dimensionless	
Kurtosis:	2.7358	dimensionless	
5th Moment:	-3.1908	dimensionless	
6th Moment:	11.9142	dimensionless	
RARD *	0.5840	dimensionless	
Median	1.3989	phi	(0.3792 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)

