Onshore Grab Sample

Sample: SJ-37-BB
Sample Taken By: J. Ladner
Sample Collected On: 12/1/03
Splits? N/A

County: St. Johns
Latitude: 29° 45' 12.4"
Longitude: 81° 14' 46.9"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	79.487	grams
Total Fines in Sample	0.215	grams
Total Percent Fines	0.27	%

Dry Sieving Summary

Total Sample Weight	79.151	grams
Total Digested Weight	77.798	grams
Total Carbonate Weight	1.353	grams
Total Silica %	98.29	%
Total Carbonate %	1.71	%
Carbonate/Silica Ratio	0.017	

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-37-BB

Total Sample Mass: 79.151 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	0.000	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	0.000	0.000	0.000
0.25	0.125	0.000	0.000	0.000
0.50	0.375	0.000	0.000	0.000
0.75	0.625	0.007	0.009	0.009
1.00	0.875	0.005	0.006	0.015
1.25	1.125	0.011	0.014	0.029
1.50	1.375	0.017	0.021	0.051
1.75	1.625	0.023	0.029	0.080
2.00	1.875	0.261	0.330	0.409
2.25	2.125	1.378	1.741	2.150
2.50	2.375	9.290	11.737	13.887
2.75	2.625	30.003	37.906	51.793
3.00	2.875	27.343	34.545	86.339
3.25	3.125	8.393	10.604	96.943
3.50	3.375	1.607	2.030	98.973
3.75	3.625	0.572	0.723	99.696
4.00	3.875	0.183	0.231	99.927
5.00	4.500	0.058	0.073	100.000

Statistical Results			
Mean:	2.7495	phi	(0.1487 mm)
Standard Dev:	0.2709	phi-units	(0.8288 mm)
Skewness:	0.3650	dimensionless	
Kurtosis:	5.9981	dimensionless	
5th Moment:	6.9597	dimensionless	
6th Moment:	125.1729	dimensionless	
RARD *	0.0985	dimensionless	
Median	2.6132	phi	(0.1634 mm)

* RARD = reciprocal absolute relative dispersion (see below)

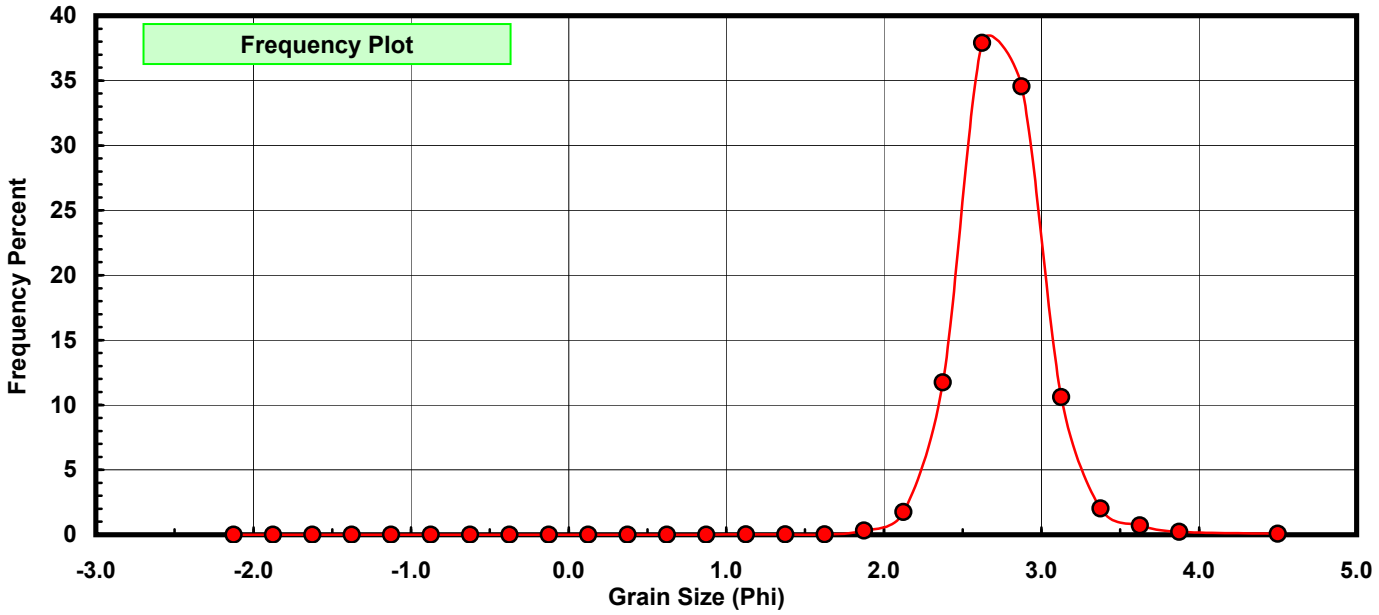
Statistical Explanation

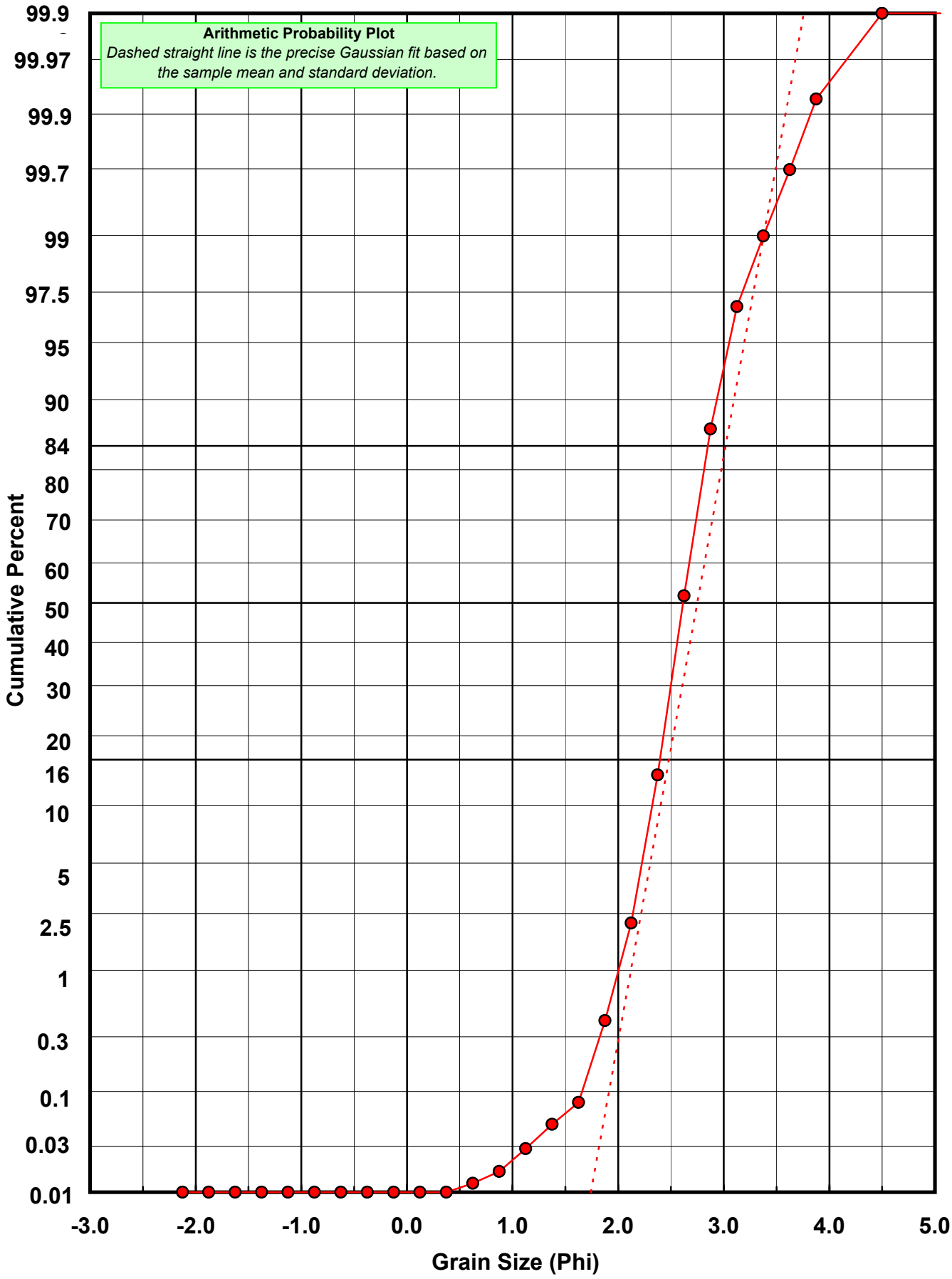
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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)




Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.9
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)

Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: SJ-37-BB

Total Carbonate Mass: 2.007 grams

% Carbonate: 1.7 %

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	0.000	0.000	0.000
0.25	0.125	0.000	0.000	0.000
0.50	0.375	0.000	0.000	0.000
0.75	0.625	0.000	0.000	0.000
1.00	0.875	0.000	0.000	0.000
1.25	1.125	0.008	0.399	0.399
1.50	1.375	0.016	0.797	1.196
1.75	1.625	0.017	0.847	2.043
2.00	1.875	0.169	8.421	10.463
2.25	2.125	0.178	8.869	19.332
2.50	2.375	0.000	0.000	19.332
2.75	2.625	0.777	38.714	58.047
3.00	2.875	0.000	0.000	58.047
3.25	3.125	0.646	32.187	90.234
3.50	3.375	0.191	9.517	99.751
3.75	3.625	0.000	0.000	99.751
4.00	3.875	0.005	0.249	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.7285	phi	(0.1509 mm)
Standard Dev:	0.4760	phi-units	(0.719 mm)
Skewness:	-0.6520	dimensionless	
Kurtosis:	2.9414	dimensionless	
5th Moment:	-4.8575	dimensionless	
6th Moment:	15.7058	dimensionless	
RARD *	0.1745	dimensionless	
Median	2.5730	phi	(0.1681 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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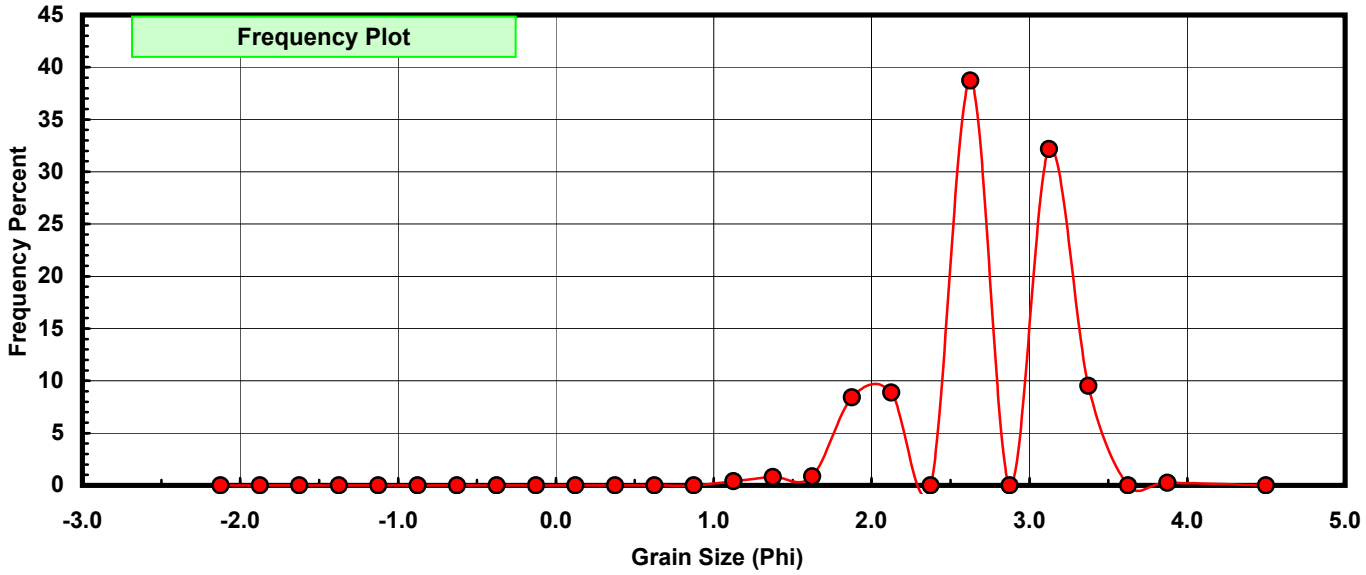

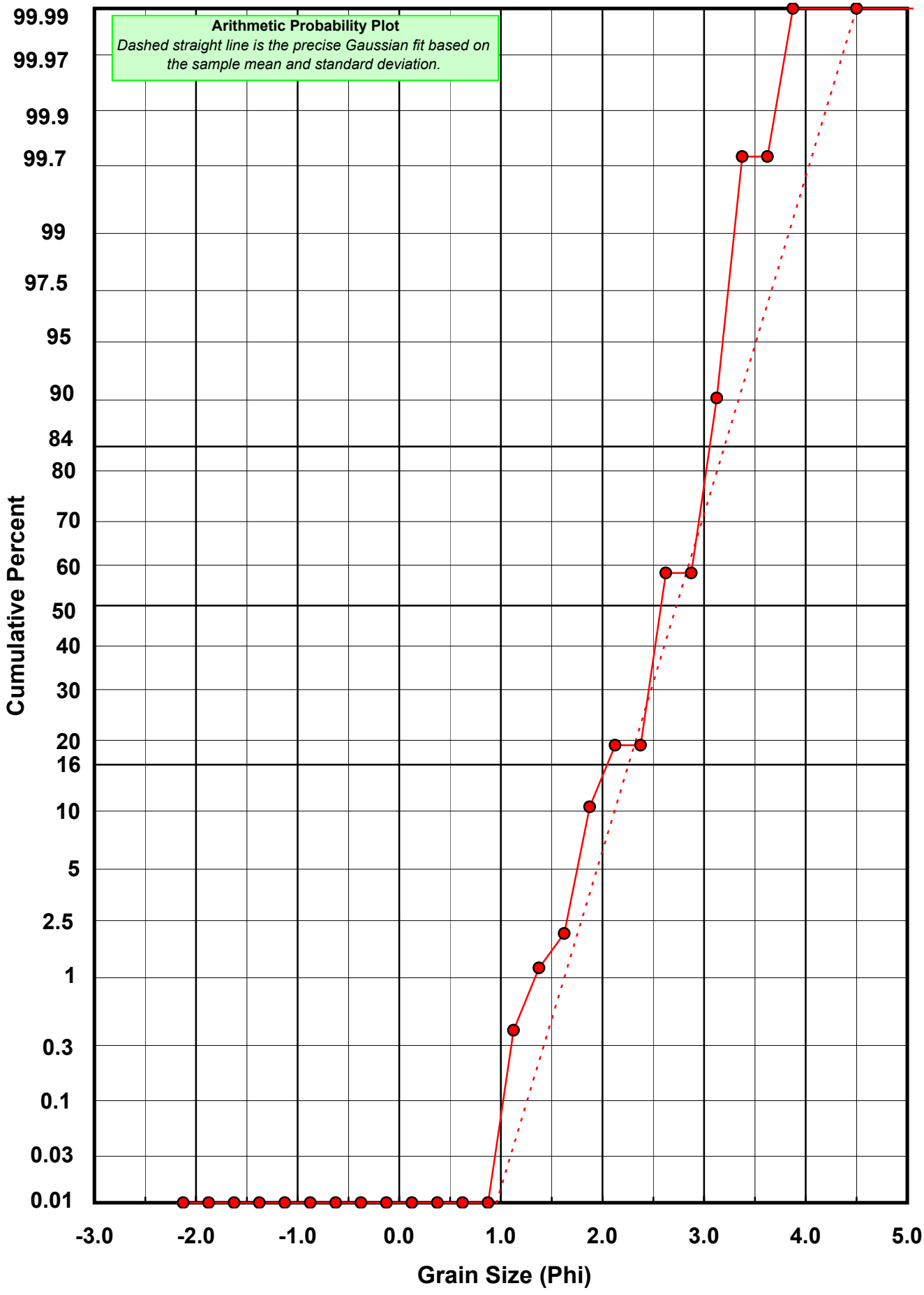
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)

Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-37-BB

Total Digested Mass: 77.740 grams

% Silica: 98.3 %

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	0.000	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	0.000	0.000	0.000
0.25	0.125	0.000	0.000	0.000
0.50	0.375	0.000	0.000	0.000
0.75	0.625	0.008	0.010	0.010
1.00	0.875	0.005	0.006	0.017
1.25	1.125	0.003	0.004	0.021
1.50	1.375	0.001	0.001	0.022
1.75	1.625	0.006	0.008	0.030
2.00	1.875	0.092	0.118	0.148
2.25	2.125	1.200	1.544	1.692
2.50	2.375	9.589	12.335	14.026
2.75	2.625	29.226	37.595	51.621
3.00	2.875	27.664	35.585	87.206
3.25	3.125	7.747	9.965	97.171
3.50	3.375	1.416	1.821	98.993
3.75	3.625	0.605	0.778	99.771
4.00	3.875	0.178	0.229	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.7482	phi	(0.1488 mm)
Standard Dev:	0.2598	phi-units	(0.8352 mm)
Skewness:	0.3302	dimensionless	
Kurtosis:	4.8985	dimensionless	
5th Moment:	1.0364	dimensionless	
6th Moment:	80.8723	dimensionless	
RARD *	0.0945	dimensionless	
Median	2.6142	phi	(0.1633 mm)

* RARD = reciprocal absolute relative dispersion (see below)

Statistical Explanation

Calculations based on the Method of Moments
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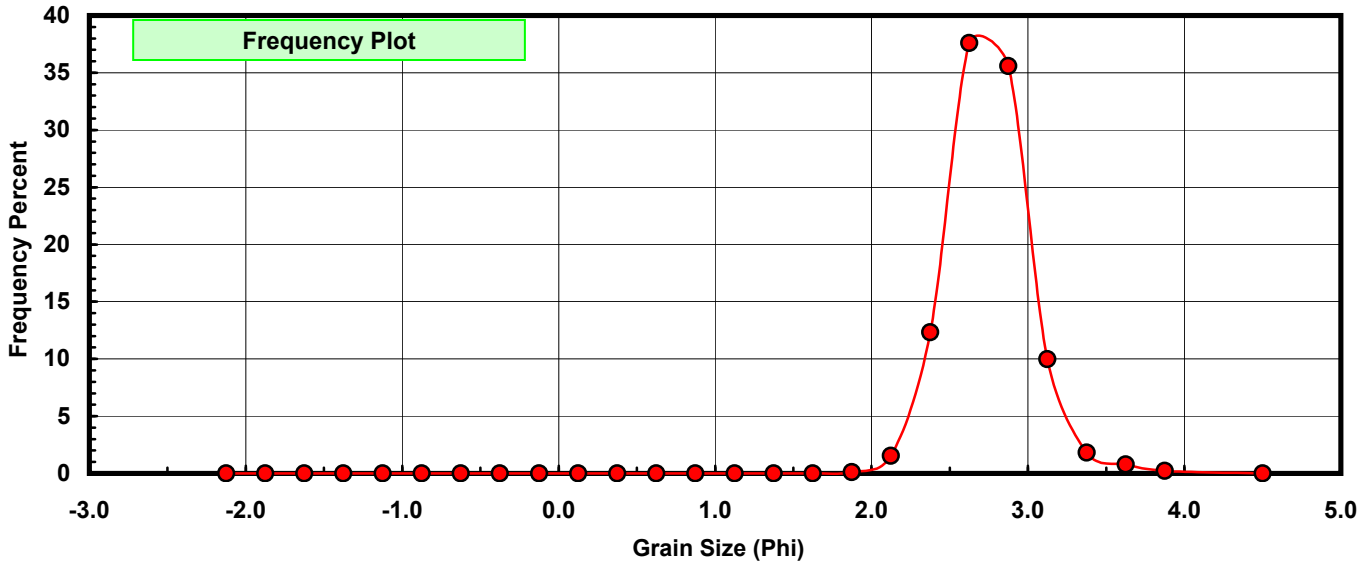

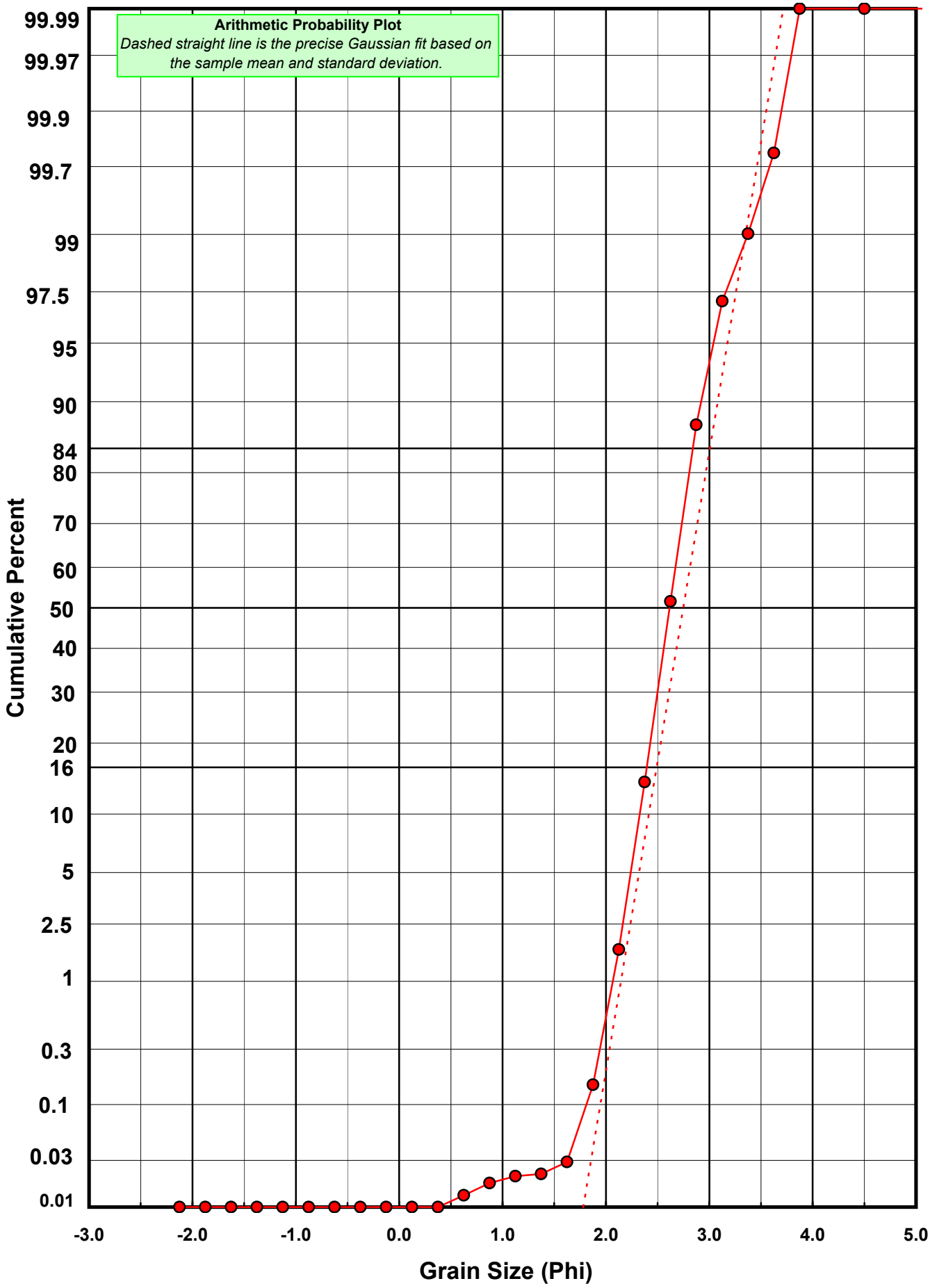
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0.03
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-2.0
-1.0
0.0
1.0
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3.0
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5.0
Grain Size (Phi)