

Onshore Grab Sample

Sample: BV-02-BB
Sample Taken By: D. Phelps
Sample Collected On: 3/19/09
Splits? N/A

County: Brevard
Latitude: 28° 46' 12.6"
Longitude: 80° 43' 08.7"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 62.956 grams
Total Fines in Sample 0.129 grams
Total Percent Fines 0.20 %

Dry Sieving Summary

Total Sample Weight 62.729 grams
Total Digested Weight 40.343 grams
Total Carbonate Weight 22.386 grams
Total Silica % 64.31 %
Total Carbonate % 35.69 %
Carbonate/Silica Ratio 0.555

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: BV-02-BB

Total Sample Mass: 62.729 grams

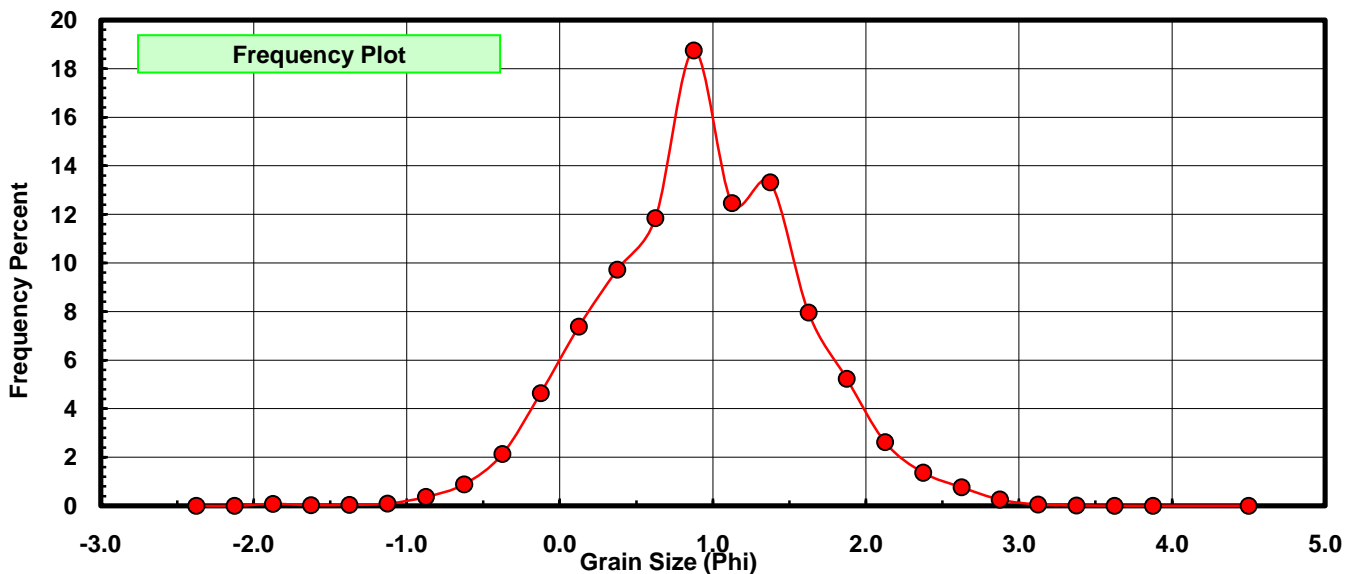
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.049	0.078	0.078
-1.50	-1.625	0.018	0.029	0.107
-1.25	-1.375	0.025	0.040	0.147
-1.00	-1.125	0.055	0.088	0.234
-0.75	-0.875	0.230	0.367	0.601
-0.50	-0.625	0.555	0.885	1.486
-0.25	-0.375	1.335	2.128	3.614
0.00	-0.125	2.909	4.637	8.251
0.25	0.125	4.630	7.381	15.632
0.50	0.375	6.097	9.720	25.352
0.75	0.625	7.427	11.840	37.192
1.00	0.875	11.761	18.749	55.941
1.25	1.125	7.817	12.462	68.402
1.50	1.375	8.357	13.322	81.725
1.75	1.625	4.988	7.952	89.676
2.00	1.875	3.283	5.234	94.910
2.25	2.125	1.646	2.624	97.534
2.50	2.375	0.855	1.363	98.897
2.75	2.625	0.479	0.764	99.660
3.00	2.875	0.161	0.257	99.917
3.25	3.125	0.034	0.054	99.971
3.50	3.375	0.011	0.018	99.989
3.75	3.625	0.003	0.005	99.994
4.00	3.875	0.001	0.002	99.995
5.00	4.50	0.003	0.005	100.000

Statistical Results			
Mean:	0.9268	phi	(0.526 mm)
Standard Dev:	0.6709	phi-units	(0.6281 mm)
Skewness:	-0.0269	dimensionless	
Kurtosis:	3.2453	dimensionless	
5th Moment:	-0.5448	dimensionless	
6th Moment:	20.2995	dimensionless	
RARD *	0.7240	dimensionless	
Median	0.7958	phi	(0.576 mm)

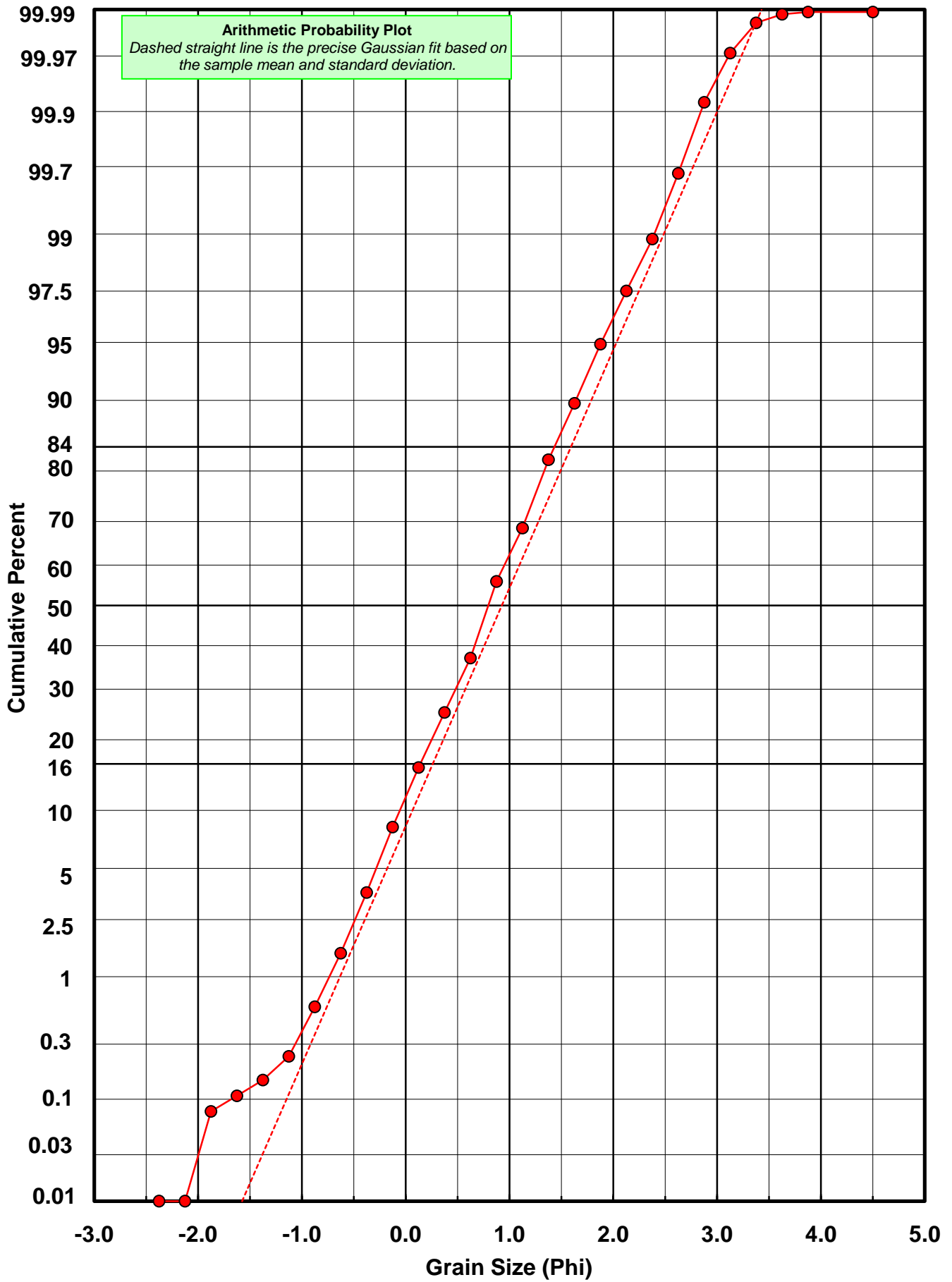
* RARD = reciprocal absolute relative dispersion (see below)

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 Basille et al. 2002
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)



BV-02-BB



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: BV-02-BB

Total Carbonate Mass: 22.397 grams

% Carbonate: 35.7 %

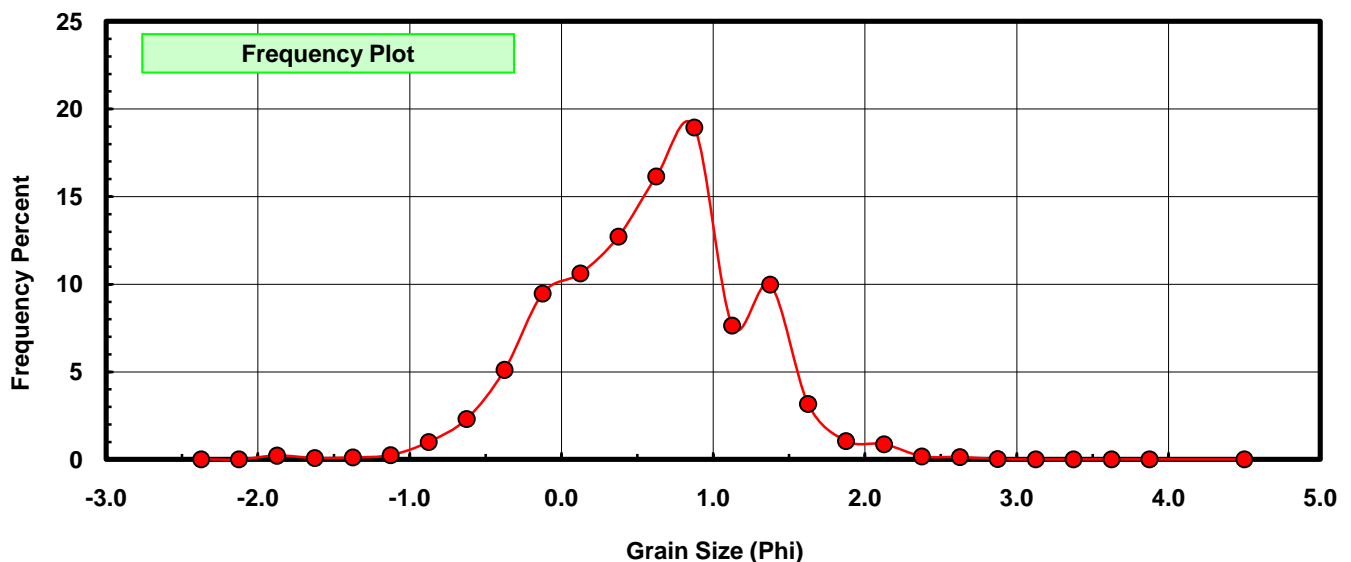
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.049	0.219	0.219
-1.50	-1.625	0.018	0.080	0.299
-1.25	-1.375	0.025	0.112	0.411
-1.00	-1.125	0.055	0.246	0.656
-0.75	-0.875	0.224	1.000	1.656
-0.50	-0.625	0.518	2.313	3.969
-0.25	-0.375	1.145	5.112	9.082
0.00	-0.125	2.120	9.466	18.547
0.25	0.125	2.377	10.613	29.160
0.50	0.375	2.849	12.720	41.881
0.75	0.625	3.617	16.149	58.030
1.00	0.875	4.243	18.945	76.975
1.25	1.125	1.711	7.639	84.614
1.50	1.375	2.233	9.970	94.584
1.75	1.625	0.708	3.161	97.745
2.00	1.875	0.235	1.049	98.794
2.25	2.125	0.195	0.871	99.665
2.50	2.375	0.040	0.179	99.844
2.75	2.625	0.030	0.134	99.978
3.00	2.875	0.005	0.022	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:	0.5847	phi	(0.6668 mm)
Standard Dev:	0.6407	phi-units	(0.6414 mm)
Skewness:	-0.1764	dimensionless	
Kurtosis:	3.1901	dimensionless	
5th Moment:	-2.0763	dimensionless	
6th Moment:	20.3325	dimensionless	
RARD *	1.0957	dimensionless	
Median	0.5007	phi	(0.7068 mm)

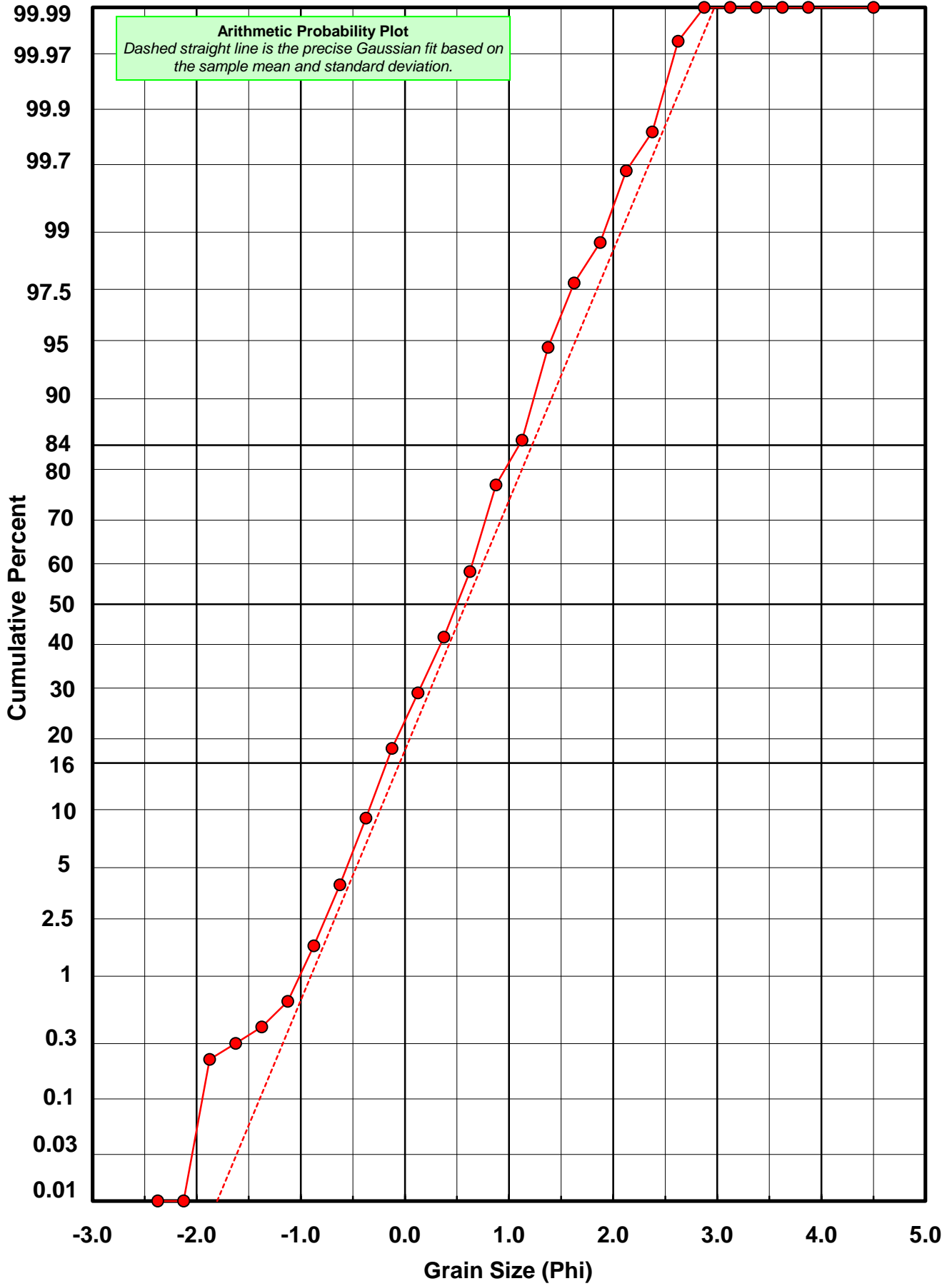
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Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0	
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BV-02-BB



Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: BV-02-BB

Total Digested Mass: 40.343 grams

% Silica: 64.3 %

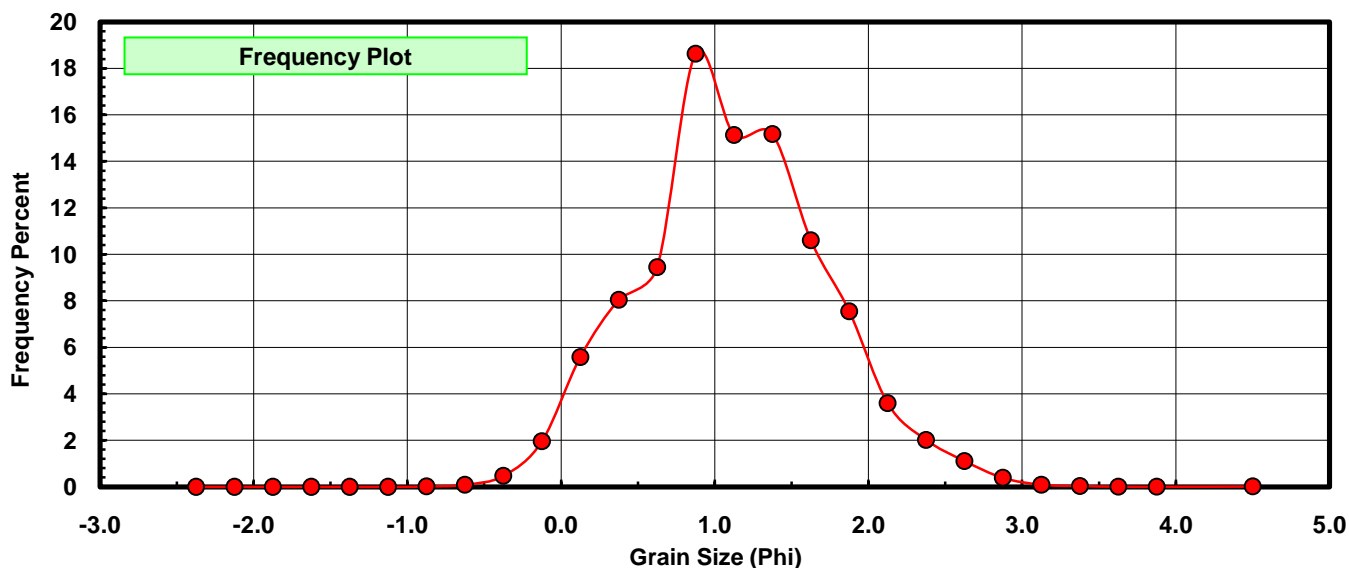
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
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-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.006	0.015	0.015
-0.50	-0.625	0.037	0.092	0.107
-0.25	-0.375	0.190	0.471	0.578
0.00	-0.125	0.789	1.956	2.533
0.25	0.125	2.253	5.585	8.118
0.50	0.375	3.248	8.051	16.169
0.75	0.625	3.810	9.444	25.613
1.00	0.875	7.518	18.635	44.248
1.25	1.125	6.106	15.135	59.383
1.50	1.375	6.124	15.180	74.563
1.75	1.625	4.280	10.609	85.172
2.00	1.875	3.048	7.555	92.727
2.25	2.125	1.451	3.597	96.324
2.50	2.375	0.815	2.020	98.344
2.75	2.625	0.449	1.113	99.457
3.00	2.875	0.156	0.387	99.844
3.25	3.125	0.038	0.094	99.938
3.50	3.375	0.014	0.035	99.973
3.75	3.625	0.004	0.010	99.983
4.00	3.875	0.001	0.002	99.985
5.00	4.500	0.006	0.015	100.000

Statistical Results			
Mean:	1.1174	phi	(0.4609 mm)
Standard Dev:	0.6175	phi-units	(0.6518 mm)
Skewness:	0.1928	dimensionless	
Kurtosis:	3.0281	dimensionless	
5th Moment:	2.4999	dimensionless	
6th Moment:	17.9710	dimensionless	
RARD *	0.5526	dimensionless	
Median	0.9700	phi	(0.5105 mm)

* RARD = reciprocal absolute relative dispersion (see below)

Statistical Explanation	
Calculations based on the Method of Moments	
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For Further Explanation, See Basille et al. 2002	
Millimeter data calculated by $mm = 2^{(-phi)}$	

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