

Onshore Grab Sample

Sample: BV-33-BB
Sample Taken By: D. Phelps
Sample Collected On: 3/18/09
Splits? N/A

County: Brevard
Latitude: 28° 25' 32.4"
Longitude: 80° 34' 37.7"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 52.431 grams
Total Fines in Sample 0.104 grams
Total Percent Fines 0.20 %

Dry Sieving Summary

Total Sample Weight 52.299 grams
Total Digested Weight 36.205 grams
Total Carbonate Weight 16.094 grams
Total Silica % 69.23 %
Total Carbonate % 30.77 %
Carbonate/Silica Ratio 0.445

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: BV-33-BB

Total Sample Mass: 52.299 grams

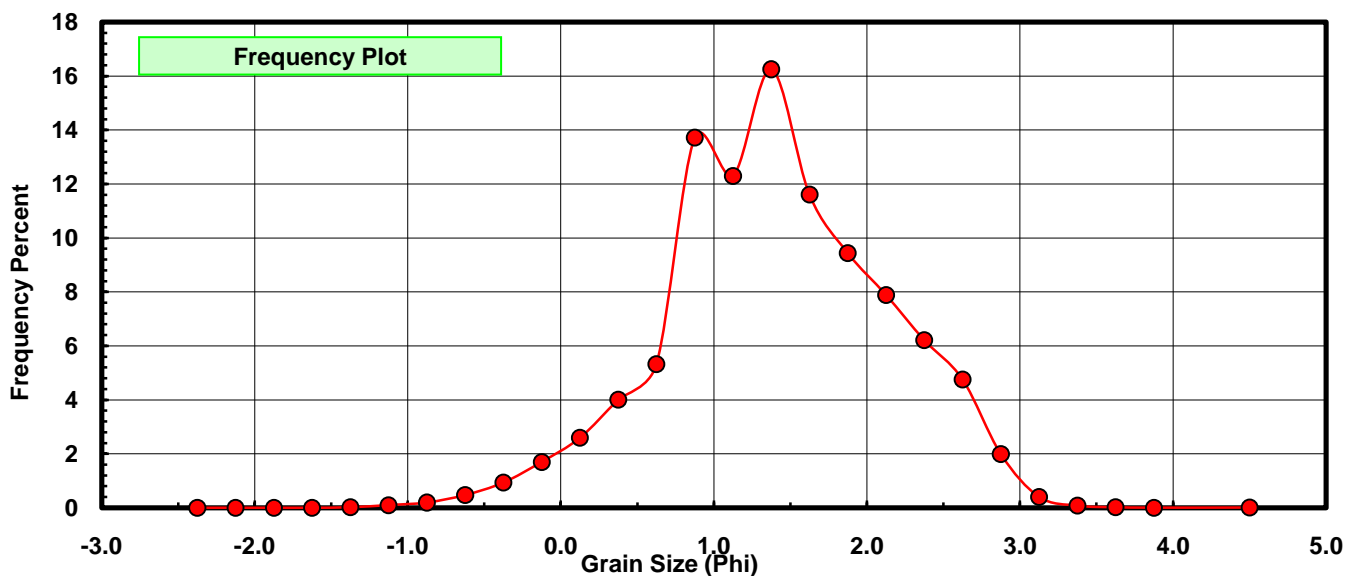
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.010	0.019	0.019
-1.00	-1.125	0.052	0.099	0.119
-0.75	-0.875	0.102	0.195	0.314
-0.50	-0.625	0.247	0.472	0.786
-0.25	-0.375	0.488	0.933	1.719
0.00	-0.125	0.889	1.700	3.419
0.25	0.125	1.355	2.591	6.010
0.50	0.375	2.094	4.004	10.014
0.75	0.625	2.783	5.321	15.335
1.00	0.875	7.175	13.719	29.054
1.25	1.125	6.431	12.297	41.351
1.50	1.375	8.499	16.251	57.601
1.75	1.625	6.069	11.604	69.206
2.00	1.875	4.938	9.442	78.648
2.25	2.125	4.126	7.889	86.537
2.50	2.375	3.248	6.210	92.747
2.75	2.625	2.486	4.753	97.501
3.00	2.875	1.039	1.987	99.488
3.25	3.125	0.211	0.403	99.891
3.50	3.375	0.041	0.078	99.969
3.75	3.625	0.010	0.019	99.989
4.00	3.875	0.002	0.004	99.992
5.00	4.50	0.004	0.008	100.000

Statistical Results			
Mean:	1.4008	phi	(0.3787 mm)
Standard Dev:	0.7342	phi-units	(0.6011 mm)
Skewness:	-0.1495	dimensionless	
Kurtosis:	3.0032	dimensionless	
5th Moment:	-1.9610	dimensionless	
6th Moment:	14.9967	dimensionless	
RARD *	0.5242	dimensionless	
Median	1.2581	phi	(0.4181 mm)

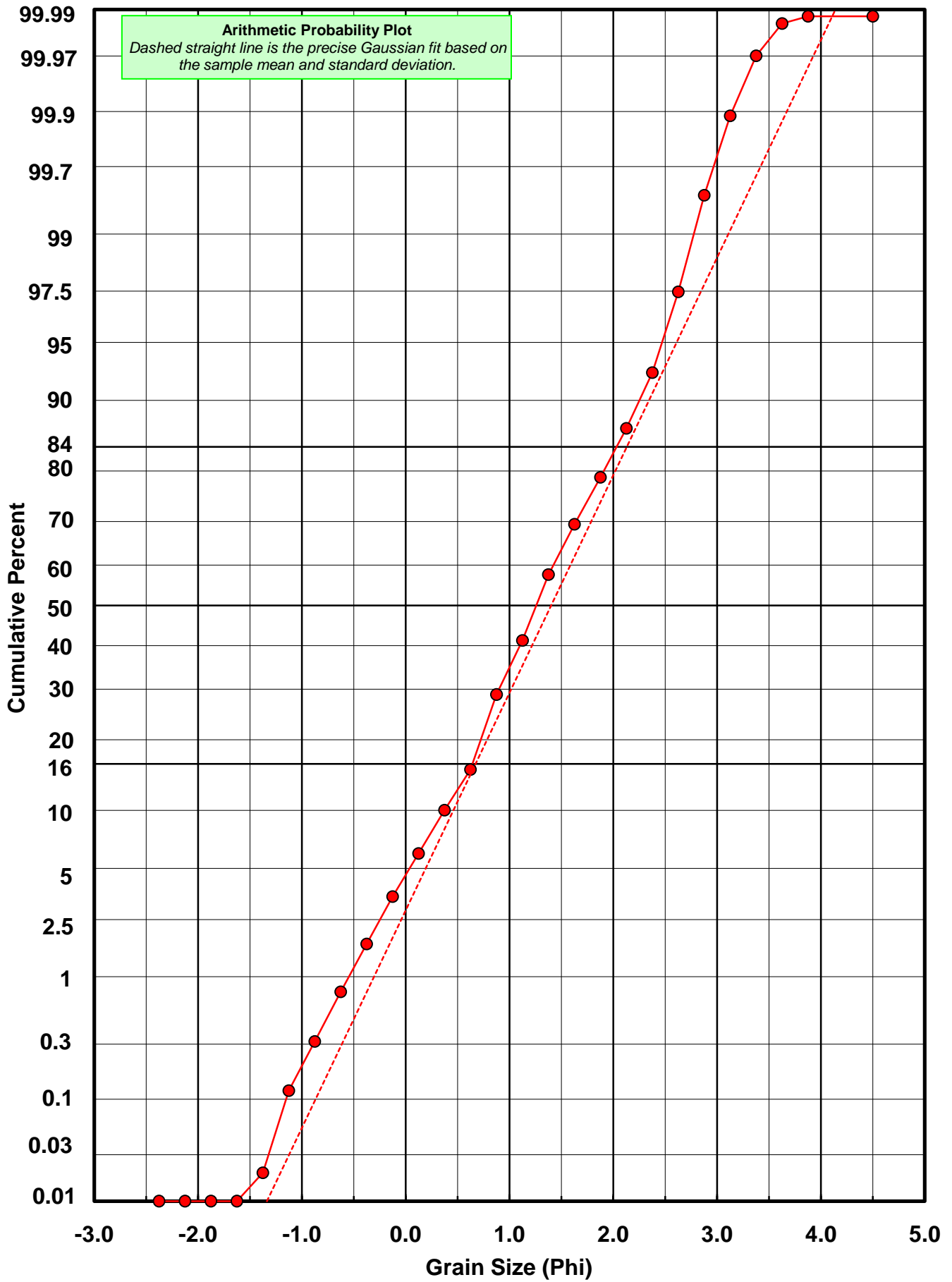
* RARD = reciprocal absolute relative dispersion (see below)

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-33-BB



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: BV-33-BB

Total Carbonate Mass: 16.109 grams

% Carbonate: 30.8 %

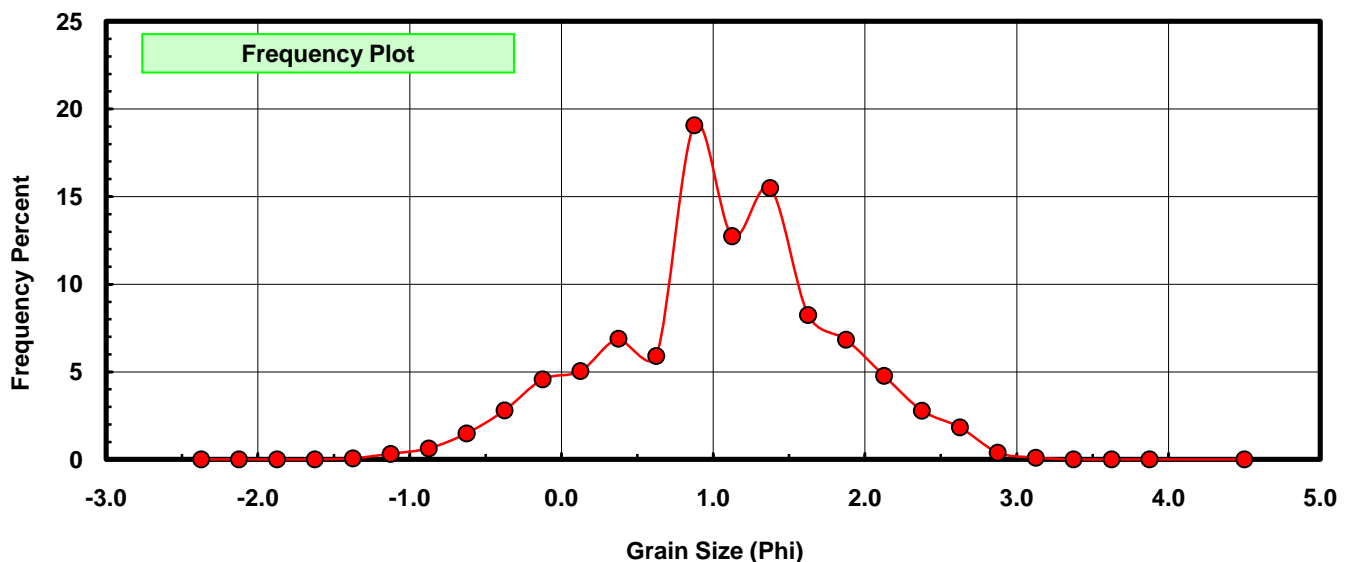
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.010	0.062	0.062
-1.00	-1.125	0.052	0.323	0.385
-0.75	-0.875	0.102	0.633	1.018
-0.50	-0.625	0.240	1.490	2.508
-0.25	-0.375	0.451	2.800	5.308
0.00	-0.125	0.736	4.569	9.876
0.25	0.125	0.812	5.041	14.917
0.50	0.375	1.110	6.891	21.808
0.75	0.625	0.952	5.910	27.717
1.00	0.875	3.073	19.076	46.794
1.25	1.125	2.053	12.744	59.538
1.50	1.375	2.495	15.488	75.026
1.75	1.625	1.328	8.244	83.270
2.00	1.875	1.102	6.841	90.111
2.25	2.125	0.770	4.780	94.891
2.50	2.375	0.449	2.787	97.678
2.75	2.625	0.295	1.831	99.510
3.00	2.875	0.063	0.391	99.901
3.25	3.125	0.016	0.099	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:	1.0492	phi	(0.4832 mm)
Standard Dev:	0.7678	phi-units	(0.5873 mm)
Skewness:	-0.2116	dimensionless	
Kurtosis:	2.8226	dimensionless	
5th Moment:	-1.4846	dimensionless	
6th Moment:	11.7759	dimensionless	
RARD *	0.7318	dimensionless	
Median	0.9379	phi	(0.522 mm)

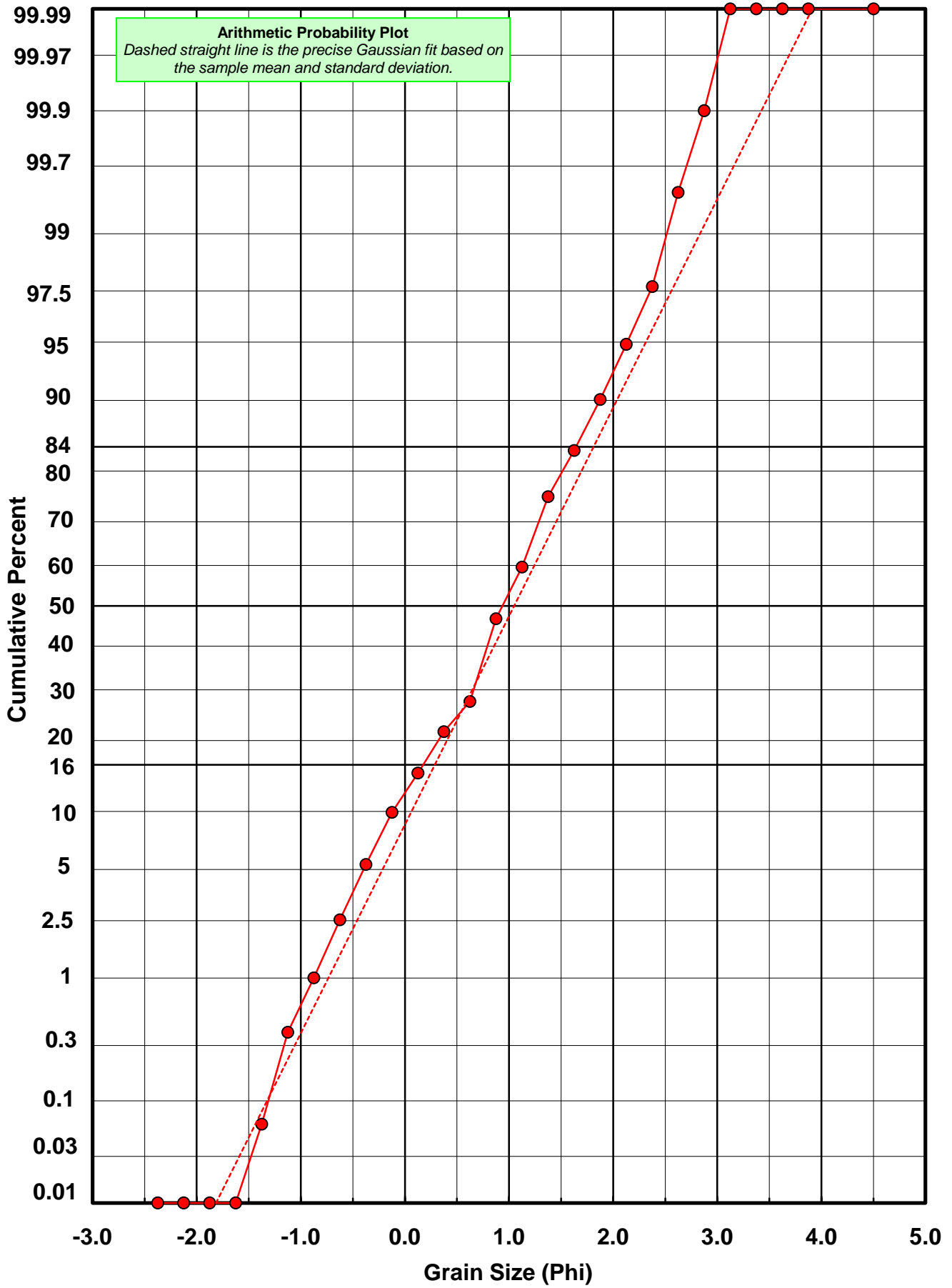
* RARD = reciprocal absolute relative dispersion (see below)

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-33-BB



Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: BV-33-BB

Total Digested Mass: 36.205 grams

% Silica: 69.2 %

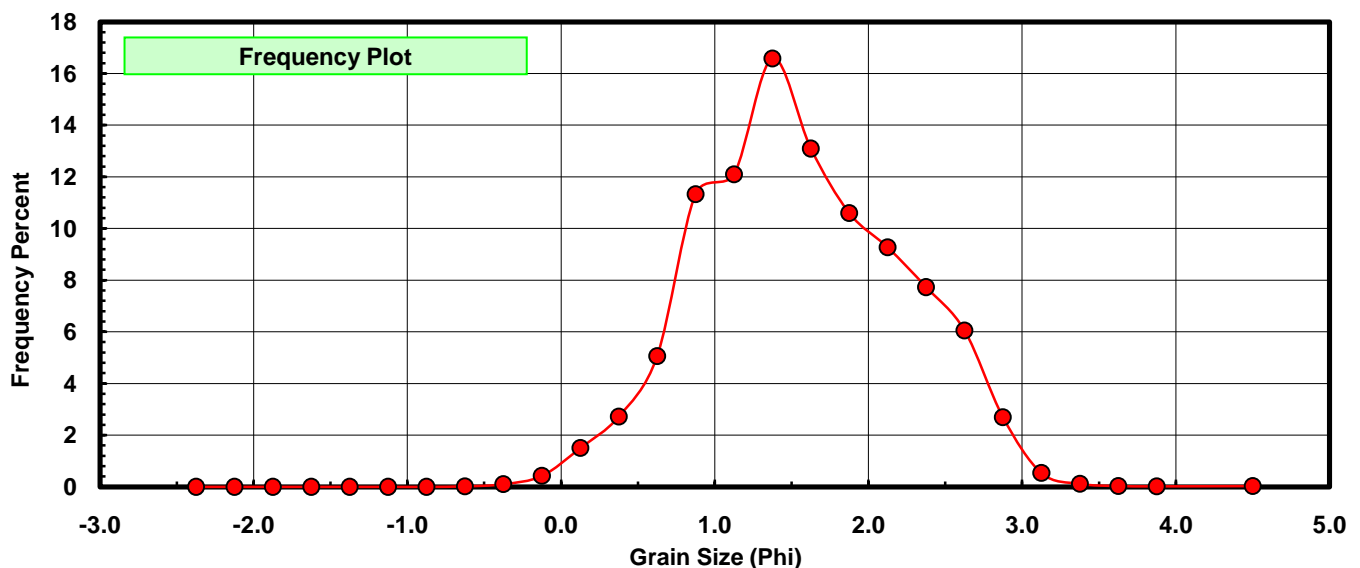
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.007	0.019	0.019
-0.25	-0.375	0.037	0.102	0.122
0.00	-0.125	0.153	0.423	0.544
0.25	0.125	0.543	1.500	2.044
0.50	0.375	0.984	2.718	4.762
0.75	0.625	1.831	5.057	9.819
1.00	0.875	4.102	11.330	21.149
1.25	1.125	4.378	12.092	33.241
1.50	1.375	6.004	16.583	49.825
1.75	1.625	4.741	13.095	62.919
2.00	1.875	3.836	10.595	73.515
2.25	2.125	3.356	9.269	82.784
2.50	2.375	2.799	7.731	90.515
2.75	2.625	2.191	6.052	96.567
3.00	2.875	0.976	2.696	99.263
3.25	3.125	0.195	0.539	99.801
3.50	3.375	0.042	0.116	99.917
3.75	3.625	0.012	0.033	99.950
4.00	3.875	0.007	0.019	99.970
5.00	4.500	0.011	0.030	100.000

Statistical Results			
Mean:	1.5583	phi	(0.3396 mm)
Standard Dev:	0.6735	phi-units	(0.627 mm)
Skewness:	0.1052	dimensionless	
Kurtosis:	2.6018	dimensionless	
5th Moment:	0.6500	dimensionless	
6th Moment:	11.5756	dimensionless	
RARD *	0.4322	dimensionless	
Median	1.3783	phi	(0.3847 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-33-BB

