

Onshore Grab Sample

Sample: BV-48
Sample Taken By: D. Phelps
Sample Collected On: 9/25/08
Splits? N/A

County: Brevard
Latitude: 28° 14' 23.1"
Longitude: 80° 36' 3.6"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 50.617 grams
Total Fines in Sample 0.309 grams
Total Percent Fines 0.61 %

Dry Sieving Summary

Total Sample Weight 50.405 grams
Total Digested Weight 39.543 grams
Total Carbonate Weight 10.862 grams
Total Silica % 78.45 %
Total Carbonate % 21.55 %
Carbonate/Silica Ratio 0.275

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: BV-48

Total Sample Mass: 50.405 grams

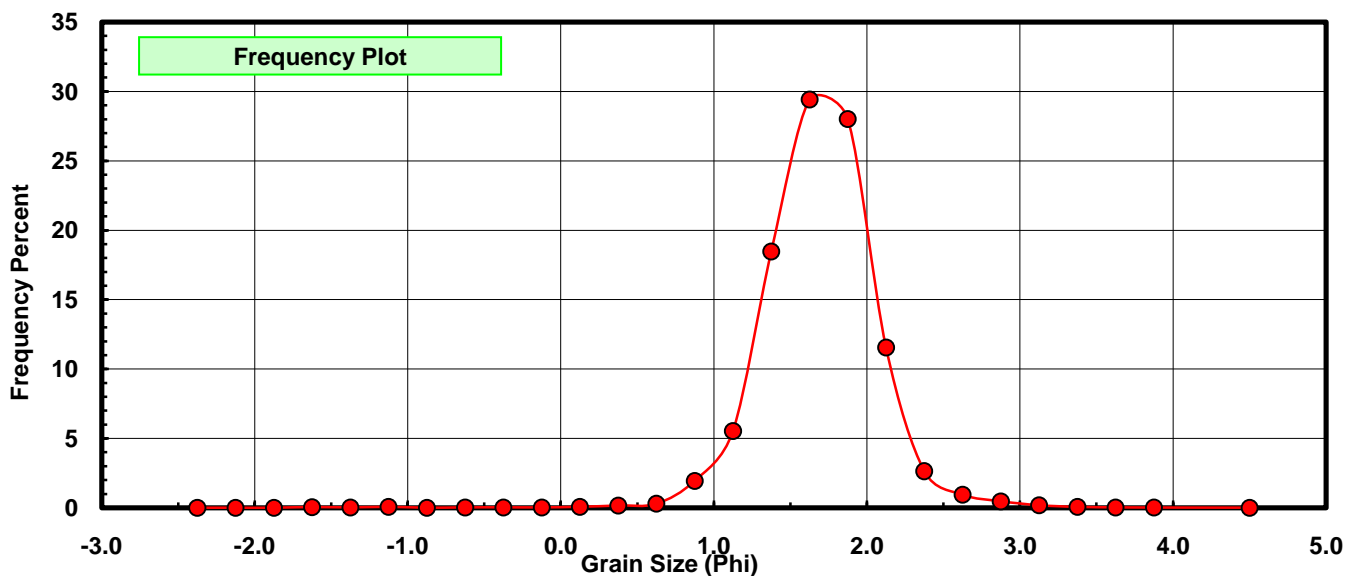
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.026	0.052	0.052
-1.25	-1.375	0.012	0.024	0.075
-1.00	-1.125	0.033	0.065	0.141
-0.75	-0.875	0.000	0.000	0.141
-0.50	-0.625	0.013	0.026	0.167
-0.25	-0.375	0.015	0.030	0.196
0.00	-0.125	0.012	0.024	0.220
0.25	0.125	0.035	0.069	0.290
0.50	0.375	0.081	0.161	0.450
0.75	0.625	0.146	0.290	0.740
1.00	0.875	0.980	1.944	2.684
1.25	1.125	2.790	5.535	8.219
1.50	1.375	9.305	18.460	26.680
1.75	1.625	14.829	29.420	56.100
2.00	1.875	14.122	28.017	84.117
2.25	2.125	5.820	11.546	95.663
2.50	2.375	1.330	2.639	98.302
2.75	2.625	0.476	0.944	99.246
3.00	2.875	0.235	0.466	99.712
3.25	3.125	0.091	0.181	99.893
3.50	3.375	0.031	0.062	99.954
3.75	3.625	0.014	0.028	99.982
4.00	3.875	0.007	0.014	99.996
5.00	4.50	0.002	0.004	100.000

Statistical Results			
Mean:	1.6925	phi	(0.3094 mm)
Standard Dev:	0.3787	phi-units	(0.7692 mm)
Skewness:	-0.6925	dimensionless	
Kurtosis:	10.8064	dimensionless	
5th Moment:	-50.5465	dimensionless	
6th Moment:	490.4469	dimensionless	
RARD *	0.2237	dimensionless	
Median	1.5732	phi	(0.3361 mm)

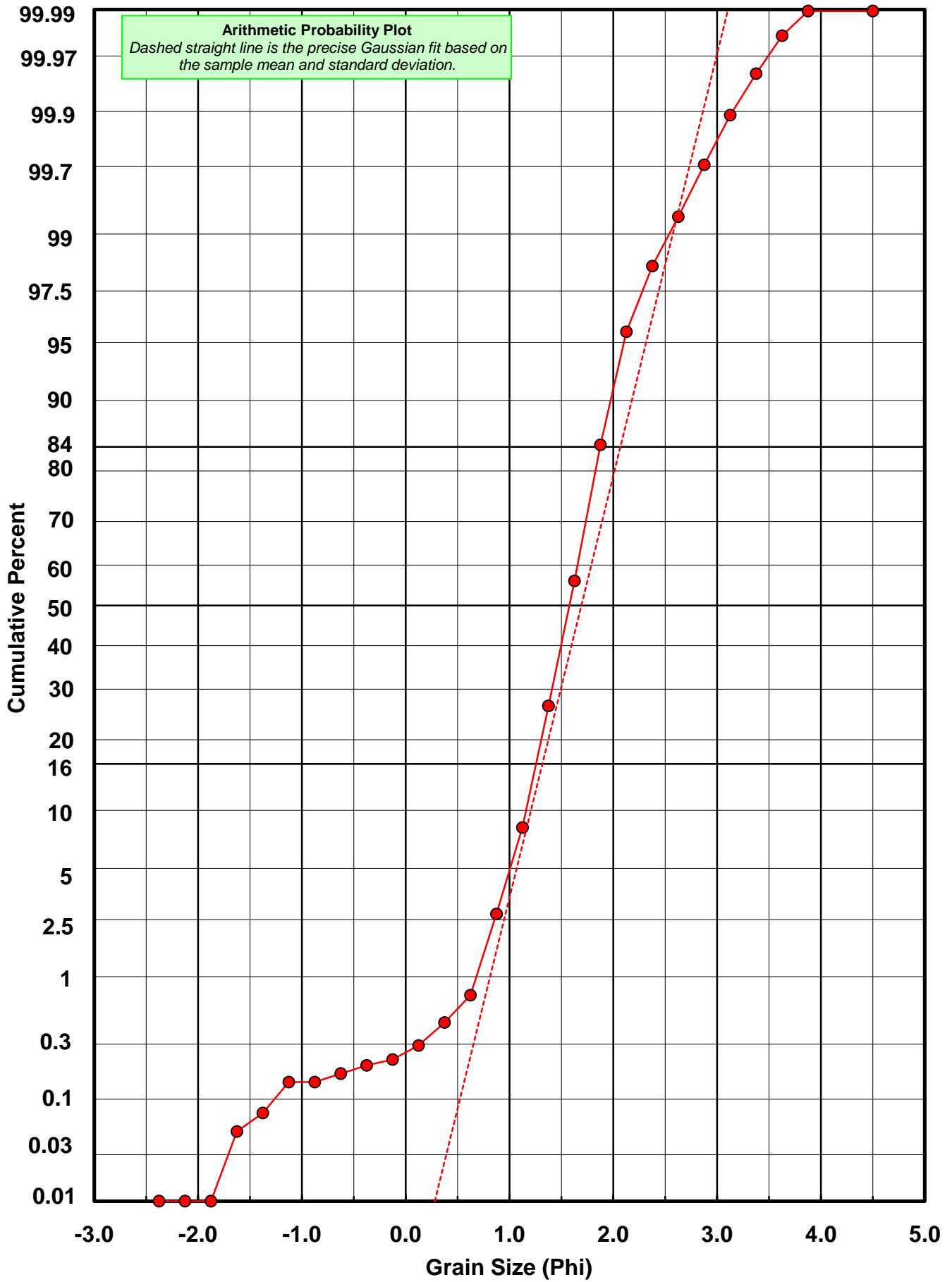
* RARD = reciprocal absolute relative dispersion (see below)

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-48



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: BV-48

Total Carbonate Mass: 10.862 grams

% Carbonate: 21.5 %

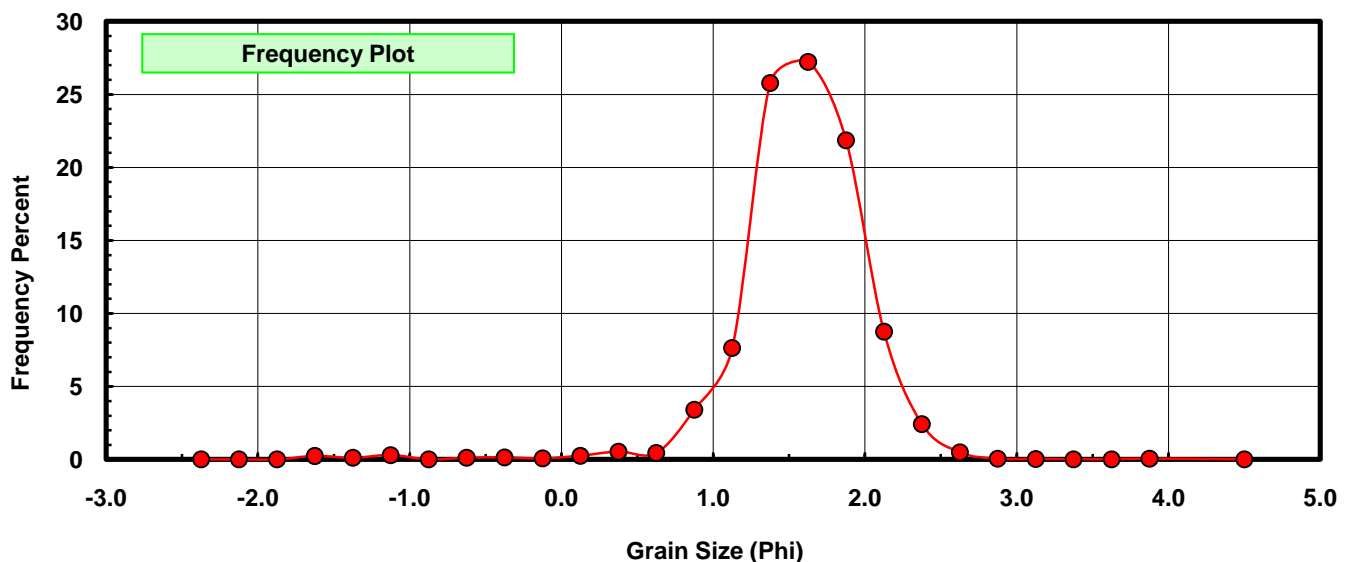
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.026	0.239	0.239
-1.25	-1.375	0.012	0.110	0.350
-1.00	-1.125	0.033	0.304	0.654
-0.75	-0.875	0.000	0.000	0.654
-0.50	-0.625	0.013	0.120	0.773
-0.25	-0.375	0.015	0.138	0.911
0.00	-0.125	0.008	0.074	0.985
0.25	0.125	0.028	0.258	1.243
0.50	0.375	0.059	0.543	1.786
0.75	0.625	0.048	0.442	2.228
1.00	0.875	0.371	3.416	5.644
1.25	1.125	0.829	7.632	13.276
1.50	1.375	2.801	25.787	39.063
1.75	1.625	2.958	27.233	66.295
2.00	1.875	2.375	21.865	88.161
2.25	2.125	0.950	8.746	96.907
2.50	2.375	0.263	2.421	99.328
2.75	2.625	0.053	0.488	99.816
3.00	2.875	0.006	0.055	99.871
3.25	3.125	0.004	0.037	99.908
3.50	3.375	0.002	0.018	99.926
3.75	3.625	0.001	0.009	99.936
4.00	3.875	0.006	0.055	99.991
5.00	4.500	0.001	0.009	100.000

Statistical Results			
Mean:	1.5802	phi	(0.3344 mm)
Standard Dev:	0.4733	phi-units	(0.7203 mm)
Skewness:	-1.9338	dimensionless	
Kurtosis:	14.2088	dimensionless	
5th Moment:	-72.7346	dimensionless	
6th Moment:	487.8578	dimensionless	
RARD *	0.2995	dimensionless	
Median	1.4754	phi	(0.3596 mm)

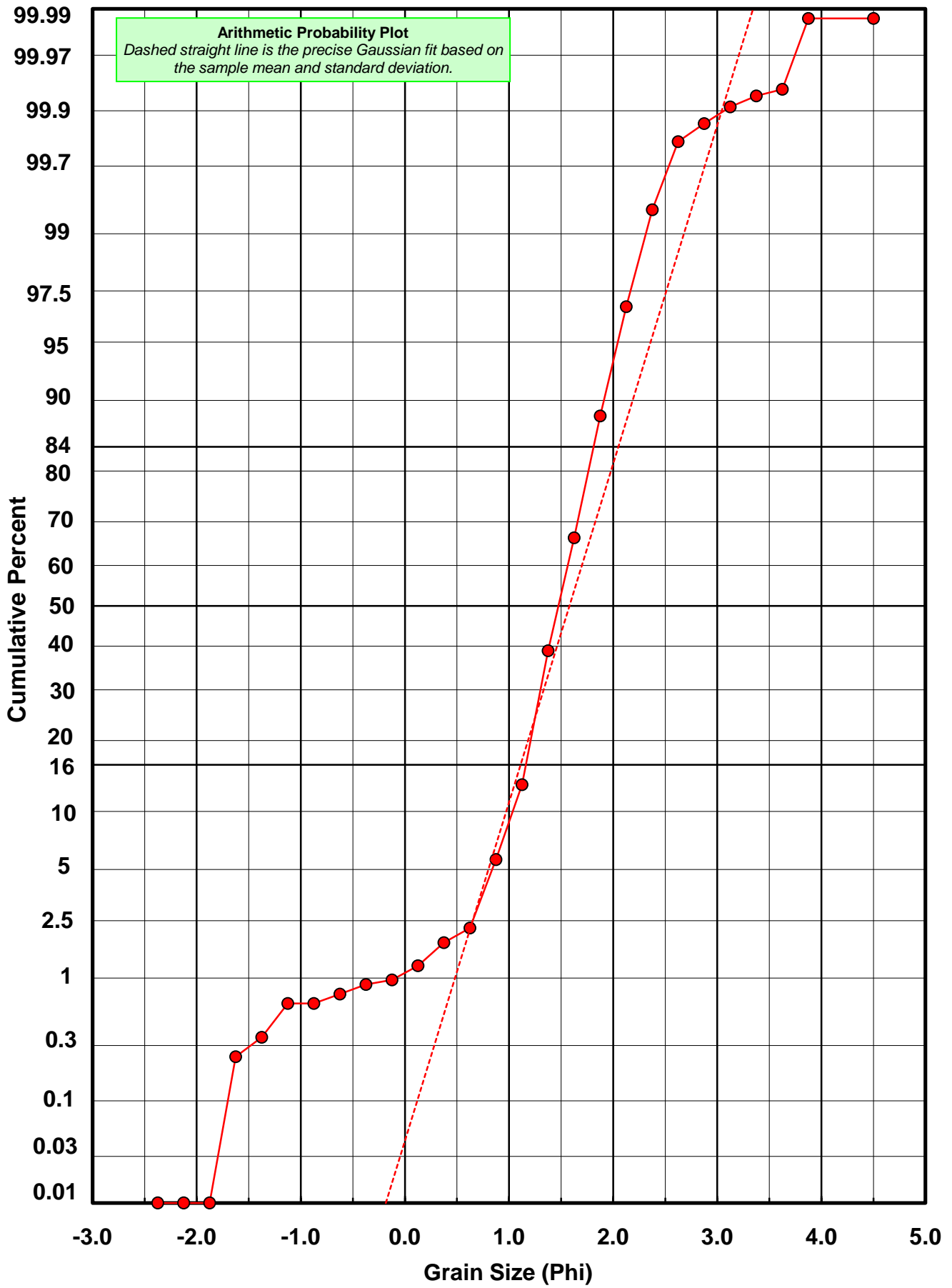
* RARD = reciprocal absolute relative dispersion (see below)

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-48



Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: BV-48

Total Digested Mass: 39.543 grams

% Silica: 78.5 %

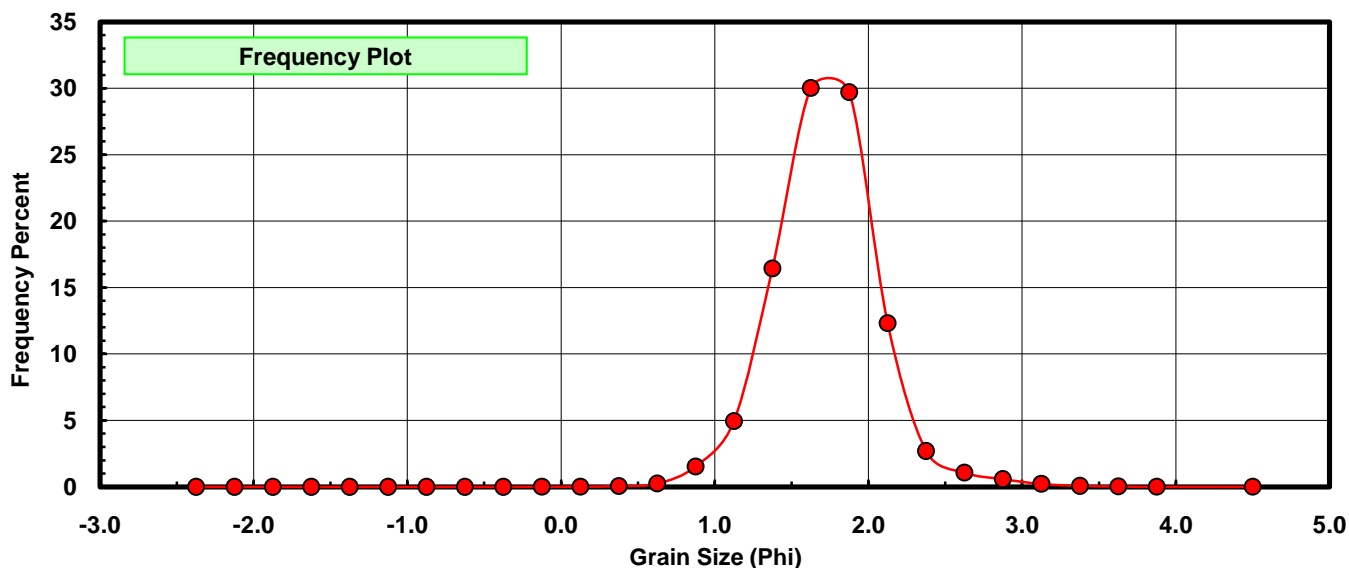
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	0.000
0.00	-0.125	0.004	0.010	0.010
0.25	0.125	0.007	0.018	0.028
0.50	0.375	0.022	0.056	0.083
0.75	0.625	0.098	0.248	0.331
1.00	0.875	0.609	1.540	1.871
1.25	1.125	1.961	4.959	6.831
1.50	1.375	6.504	16.448	23.278
1.75	1.625	11.871	30.020	53.299
2.00	1.875	11.747	29.707	83.006
2.25	2.125	4.870	12.316	95.322
2.50	2.375	1.067	2.698	98.020
2.75	2.625	0.423	1.070	99.090
3.00	2.875	0.229	0.579	99.669
3.25	3.125	0.087	0.220	99.889
3.50	3.375	0.029	0.073	99.962
3.75	3.625	0.013	0.033	99.995
4.00	3.875	0.001	0.003	99.997
5.00	4.500	0.001	0.003	100.000

Statistical Results			
Mean:	1.7233	phi	(0.3029 mm)
Standard Dev:	0.3492	phi-units	(0.785 mm)
Skewness:	0.2970	dimensionless	
Kurtosis:	4.8534	dimensionless	
5th Moment:	6.9443	dimensionless	
6th Moment:	60.0069	dimensionless	
RARD *	0.2026	dimensionless	
Median	1.5975	phi	(0.3304 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-48

