

## **Onshore Grab Sample**

**Sample:** BW-01-BB  
**Sample Taken By:** D. Phelps  
**Sample Collected On:** 1/27/09  
**Splits?** N/A

**County:** Broward  
**Latitude:** 26° 18' 56.2"  
**Longitude:** 80° 04' 31.5"  
**Datum:** WGS 84  
**Surf. Elev:** N/A  
**Datum:** N/A

### **Fine Data Summary**

Total Sample Weight	67.178 grams
Total Fines in Sample	0.180 grams
Total Percent Fines	0.27 %

### **Dry Sieving Summary**

Total Sample Weight	66.969 grams
Total Digested Weight	32.766 grams
Total Carbonate Weight	34.203 grams
Total Silica %	48.93 %
Total Carbonate %	51.07 %
Carbonate/Silica Ratio	1.044

### **General Comments:**

None

### **Description**

Worked By: M. Ladle

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: BW-01-BB

Total Sample Mass: 66.969 grams

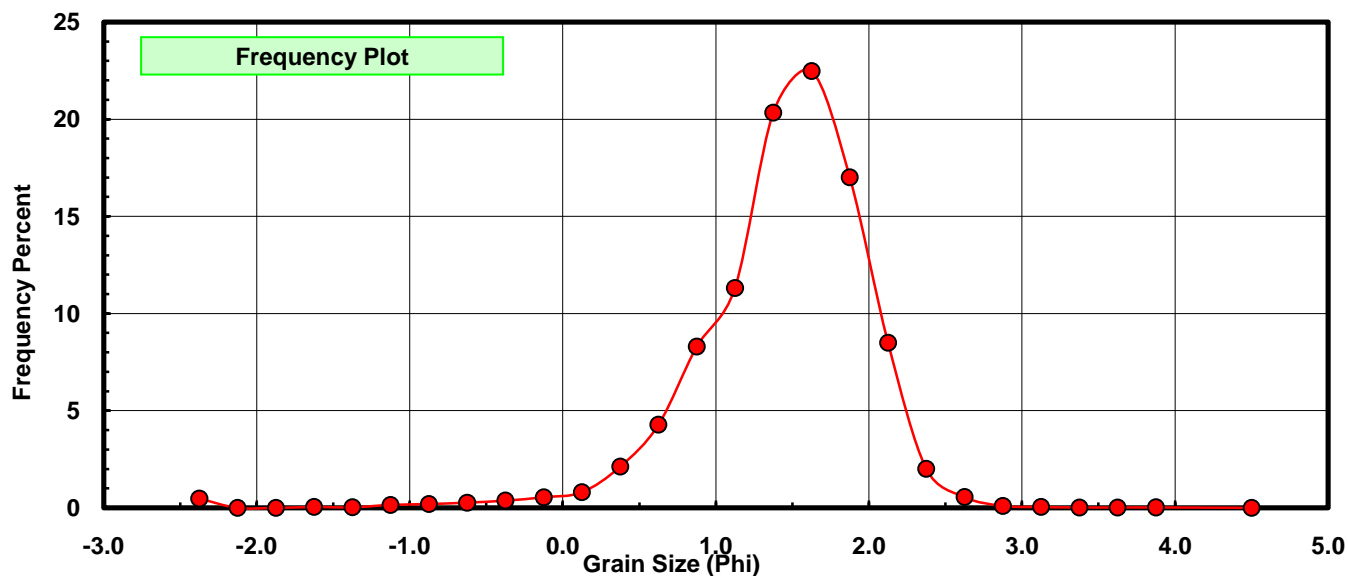
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.322	0.481	0.481
-2.00	-2.125	0.000	0.000	0.481
-1.75	-1.875	0.000	0.000	0.481
-1.50	-1.625	0.030	0.045	0.526
-1.25	-1.375	0.019	0.028	0.554
-1.00	-1.125	0.102	0.152	0.706
-0.75	-0.875	0.131	0.196	0.902
-0.50	-0.625	0.181	0.270	1.172
-0.25	-0.375	0.249	0.372	1.544
0.00	-0.125	0.366	0.547	2.091
0.25	0.125	0.538	0.803	2.894
0.50	0.375	1.419	2.119	5.013
0.75	0.625	2.862	4.274	9.286
1.00	0.875	5.554	8.293	17.580
1.25	1.125	7.578	11.316	28.895
1.50	1.375	13.619	20.336	49.232
1.75	1.625	15.056	22.482	71.714
2.00	1.875	11.396	17.017	88.731
2.25	2.125	5.691	8.498	97.229
2.50	2.375	1.343	2.005	99.234
2.75	2.625	0.372	0.555	99.789
3.00	2.875	0.068	0.102	99.891
3.25	3.125	0.029	0.043	99.934
3.50	3.375	0.015	0.022	99.957
3.75	3.625	0.013	0.019	99.976
4.00	3.875	0.016	0.024	100.000
5.00	4.50	0.000	0.000	100.000

Statistical Results			
Mean:	1.4293	phi	(0.3713 mm)
Standard Dev:	0.5965	phi-units	(0.6614 mm)
Skewness:	-1.8985	dimensionless	
Kurtosis:	11.6917	dimensionless	
5th Moment:	-60.4201	dimensionless	
6th Moment:	370.3802	dimensionless	
RARD *	0.4173	dimensionless	
Median	1.3835	phi	(0.3833 mm)

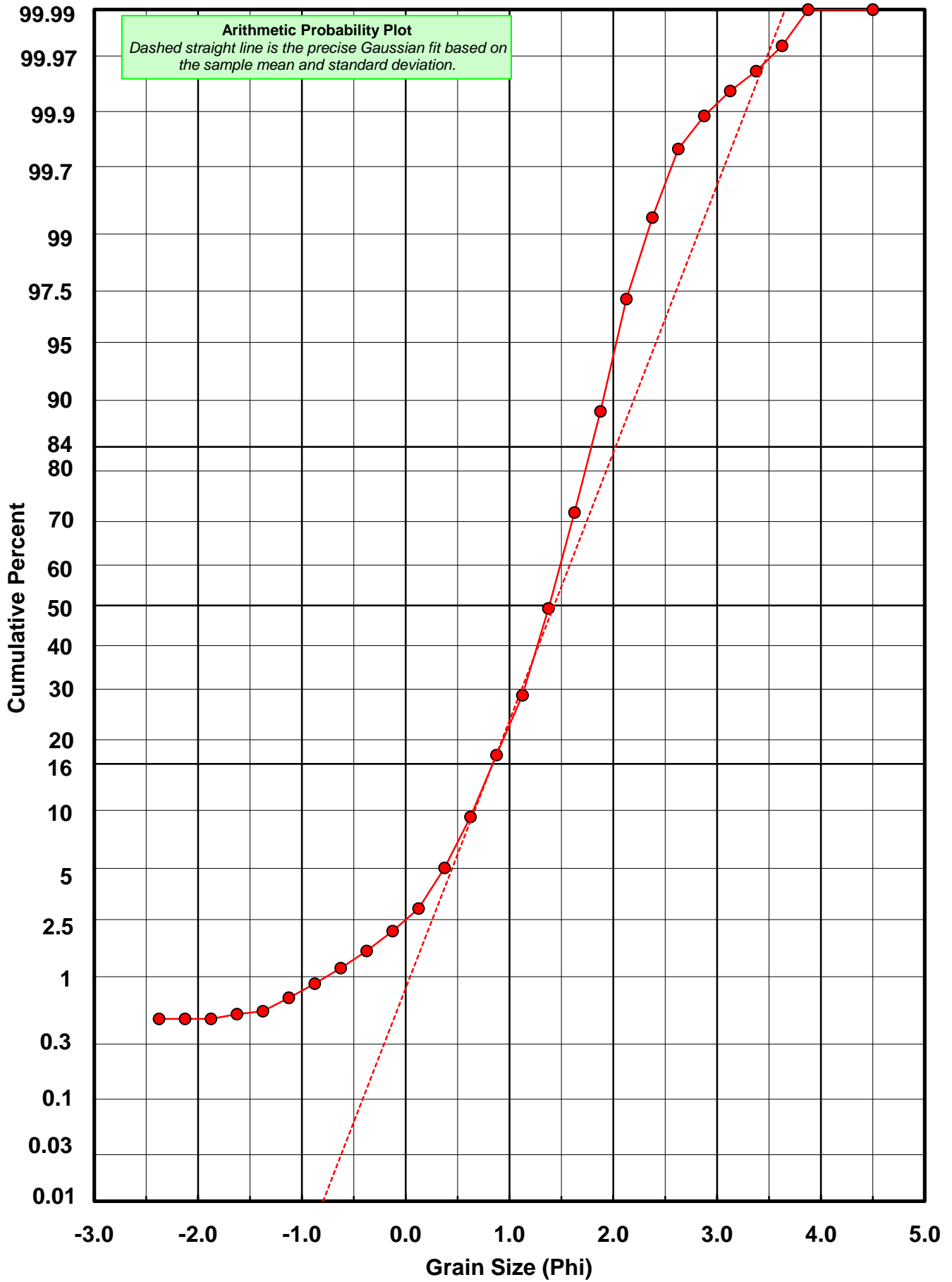
\* RARD = reciprocal absolute relative dispersion (see below)

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)



# BW-01-BB



# Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: BW-01-BB

Total Carbonate Mass: 34.216 grams

% Carbonate: 51.1 %

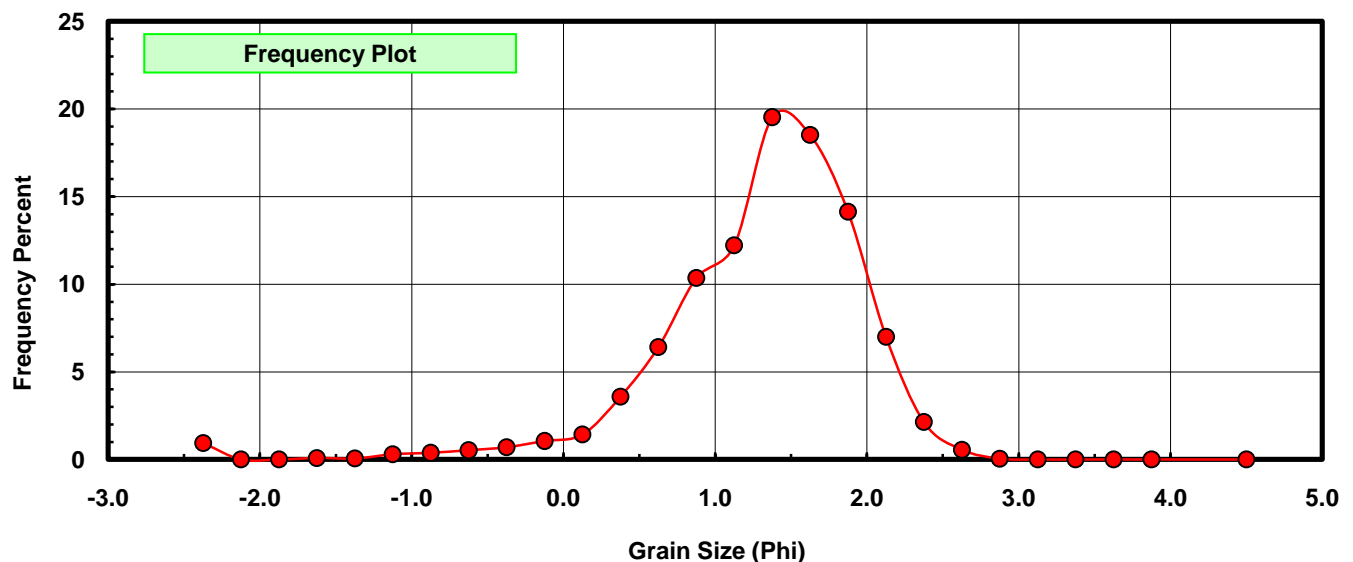
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.322	0.941	0.941
-2.00	-2.125	0.000	0.000	0.941
-1.75	-1.875	0.000	0.000	0.941
-1.50	-1.625	0.030	0.088	1.029
-1.25	-1.375	0.019	0.056	1.084
-1.00	-1.125	0.102	0.298	1.382
-0.75	-0.875	0.131	0.383	1.765
-0.50	-0.625	0.181	0.529	2.294
-0.25	-0.375	0.240	0.701	2.996
0.00	-0.125	0.362	1.058	4.054
0.25	0.125	0.488	1.426	5.480
0.50	0.375	1.226	3.583	9.063
0.75	0.625	2.195	6.415	15.478
1.00	0.875	3.545	10.361	25.839
1.25	1.125	4.180	12.217	38.055
1.50	1.375	6.685	19.538	57.593
1.75	1.625	6.338	18.523	76.116
2.00	1.875	4.836	14.134	90.250
2.25	2.125	2.396	7.003	97.253
2.50	2.375	0.731	2.136	99.389
2.75	2.625	0.192	0.561	99.950
3.00	2.875	0.016	0.047	99.997
3.25	3.125	0.000	0.000	99.997
3.50	3.375	0.000	0.000	99.997
3.75	3.625	0.001	0.003	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:	1.2953	phi	(0.4075 mm)
Standard Dev:	0.7089	phi-units	(0.6118 mm)
Skewness:	-1.8543	dimensionless	
Kurtosis:	9.4895	dimensionless	
5th Moment:	-41.5205	dimensionless	
6th Moment:	206.2867	dimensionless	
RARD *	0.5473	dimensionless	
Median	1.2778	phi	(0.4124 mm)

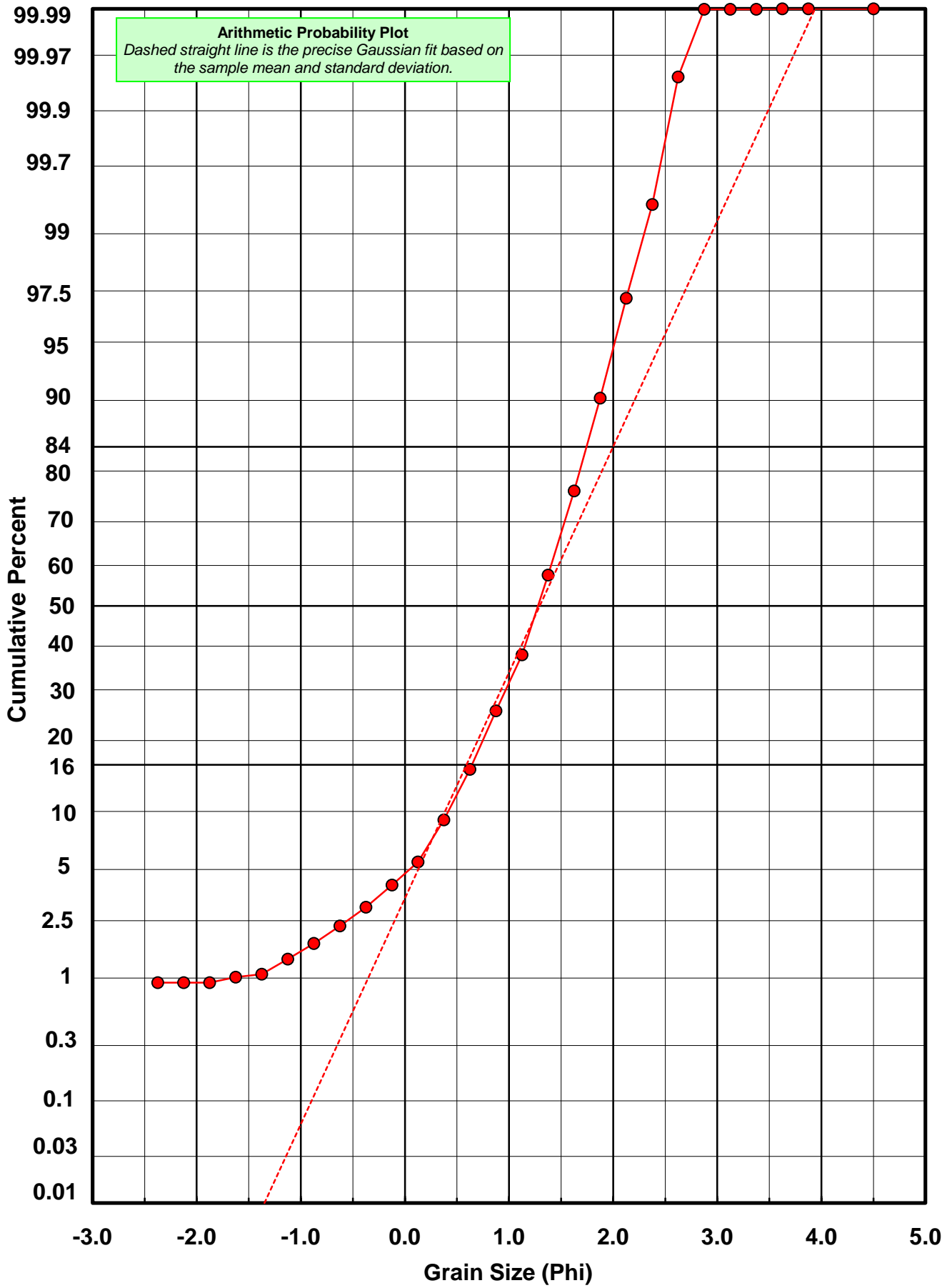
\* RARD = reciprocal absolute relative dispersion (see below)

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)



# BW-01-BB



# Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: BW-01-BB

Total Digested Mass: 32.766 grams

% Silica: 48.9 %

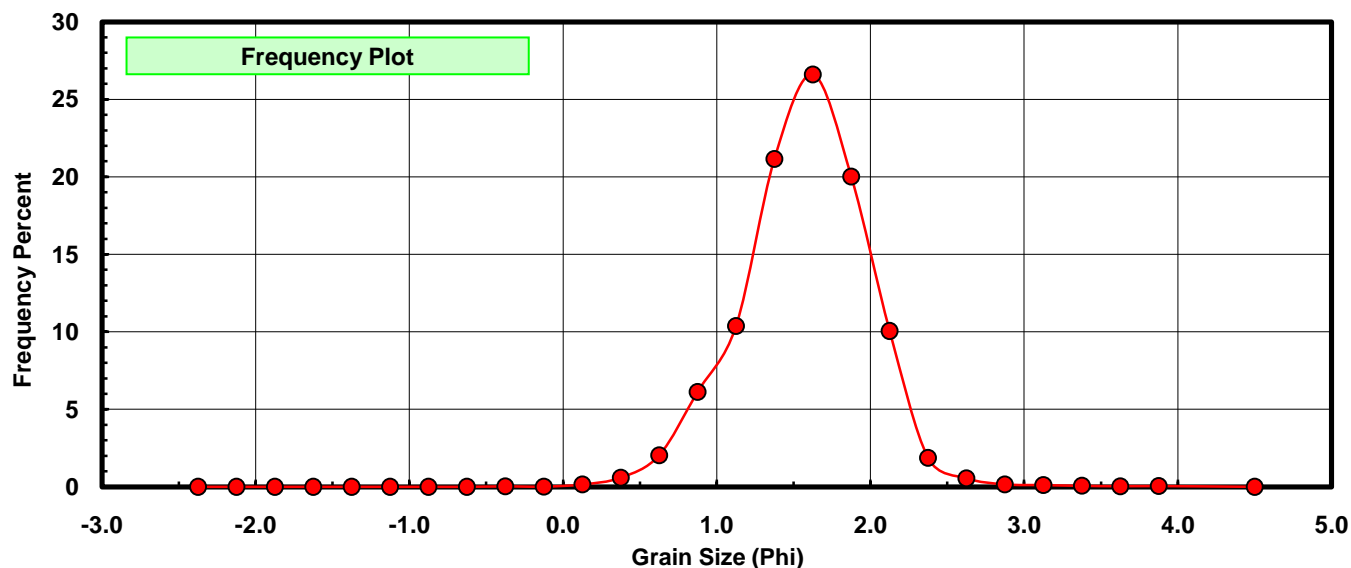
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.009	0.027	0.027
0.00	-0.125	0.004	0.012	0.040
0.25	0.125	0.050	0.153	0.192
0.50	0.375	0.193	0.589	0.781
0.75	0.625	0.667	2.036	2.817
1.00	0.875	2.009	6.131	8.948
1.25	1.125	3.398	10.371	19.319
1.50	1.375	6.934	21.162	40.481
1.75	1.625	8.718	26.607	67.088
2.00	1.875	6.560	20.021	87.109
2.25	2.125	3.295	10.056	97.165
2.50	2.375	0.612	1.868	99.033
2.75	2.625	0.180	0.549	99.582
3.00	2.875	0.052	0.159	99.741
3.25	3.125	0.036	0.110	99.850
3.50	3.375	0.021	0.064	99.915
3.75	3.625	0.012	0.037	99.951
4.00	3.875	0.016	0.049	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.5699	phi	(0.3368 mm)
Standard Dev:	0.4182	phi-units	(0.7483 mm)
Skewness:	-0.0846	dimensionless	
Kurtosis:	4.1327	dimensionless	
5th Moment:	2.6095	dimensionless	
6th Moment:	44.9410	dimensionless	
RARD *	0.2664	dimensionless	
Median	1.4644	phi	(0.3624 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)



# BW-01-BB

