Onshore Grab Sample

Sample: OA-16-BB
Sample Taken By: J. Ladner
Sample Collected On: 9/14/06
Splits? Yes

County: Okaloosa
Latitude: 30° 23' 35.61"
Longitude: 86° 34' 47.19"
Datum: NAD 83
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	66.205	grams
Total Fines in Sample	0.032	grams
Total Percent Fines	0.05	%

Dry Sieving Summary

Total Sample Weight	66.167	grams
Total Digested Weight	66.129	grams
Total Carbonate Weight	0.038	grams
Total Silica %	99.94	%
Total Carbonate %	0.06	%
Carbonate/Silica Ratio	0.001	

General Comments:

Not enough Carbonate Material to run a Post-Digestion Analysis

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: OA-16-BB

Total Sample Mass: 66.167 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	0.004	0.006	0.006
0.50	0.375	0.004	0.006	0.012
0.75	0.625	0.018	0.027	0.039
1.00	0.875	0.135	0.204	0.243
1.25	1.125	1.014	1.532	1.776
1.50	1.375	8.541	12.908	14.684
1.75	1.625	29.082	43.952	58.636
2.00	1.875	20.553	31.062	89.699
2.25	2.125	5.606	8.473	98.171
2.50	2.375	1.027	1.552	99.723
2.75	2.625	0.137	0.207	99.930
3.00	2.875	0.030	0.045	99.976
3.25	3.125	0.006	0.009	99.985
3.50	3.375	0.005	0.008	99.992
3.75	3.625	0.002	0.003	99.995
4.00	3.875	0.001	0.002	99.997
5.00	4.500	0.000	0.000	99.997
5.00	4.50	0.002	0.003	100.000

Statistical Results			
Mean:	1.7178	phi	(0.304 mm)
Standard Dev:	0.2425	phi-units	(0.8453 mm)
Skewness:	0.3184	dimensionless	
Kurtosis:	4.9338	dimensionless	
5th Moment:	11.0570	dimensionless	
6th Moment:	132.6101	dimensionless	
RARD *	0.1412	dimensionless	
Median	1.5759	phi	(0.3354 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

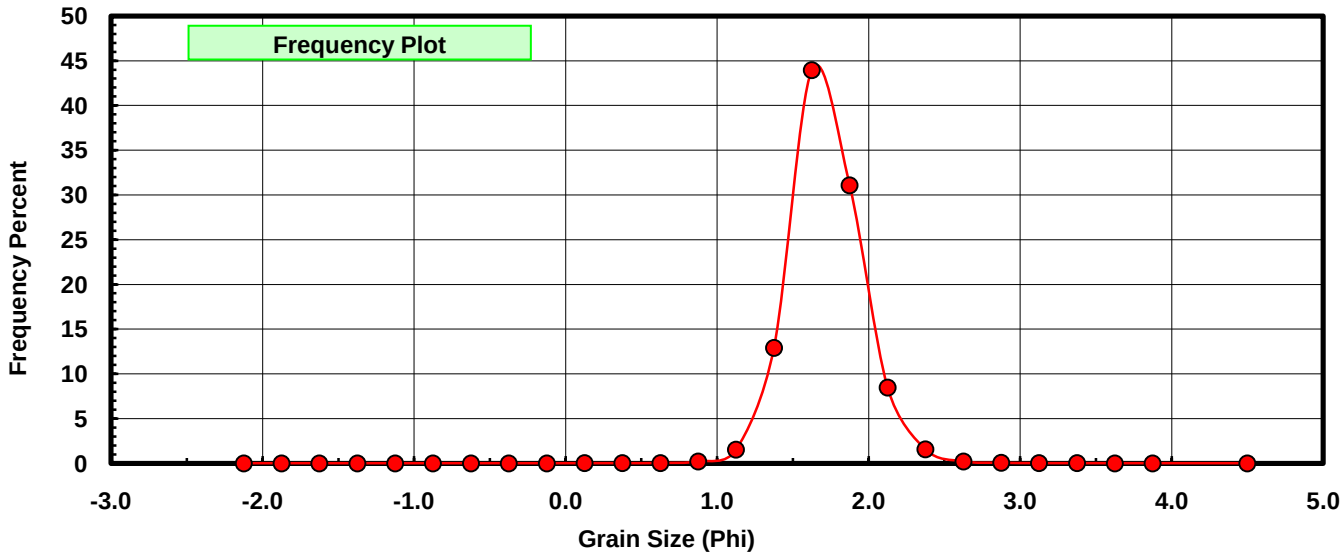
Statistical Explanation

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

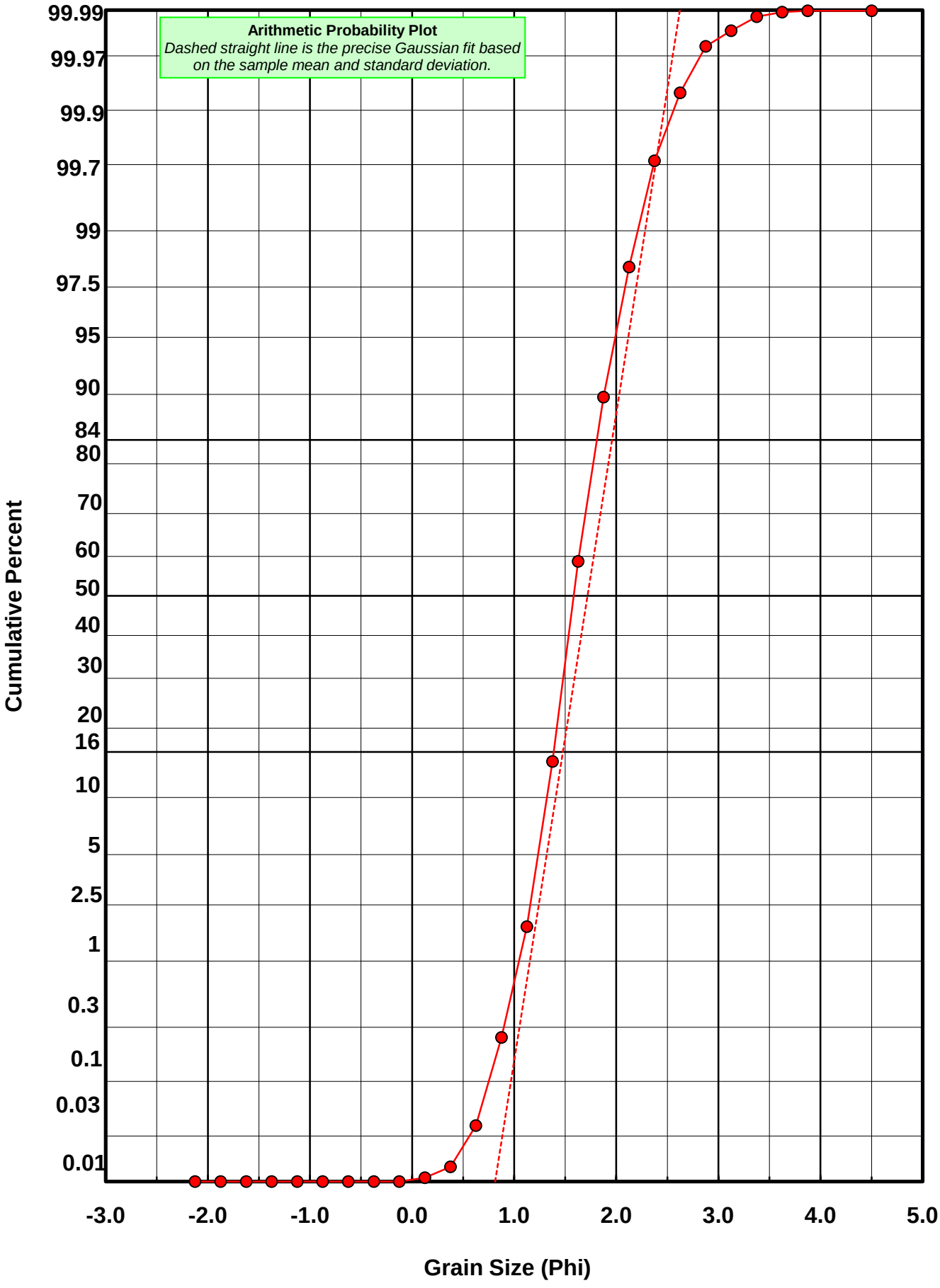
For Further Explanation, See Basillle et al. 2002

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)



OA-16-BB


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)