

## **Onshore Grab Sample**

**Sample:** PI-21  
**Sample Taken By:** D. Phelps  
**Sample Collected On:** 10/8/09  
**Splits?** N/A

**County:** Pinellas  
**Latitude:** 27° 54' 50.1"  
**Longitude:** 82° 50' 47.4"  
**Datum:** WGS 84  
**Surf. Elev:** N/A  
**Datum:** N/A

### **Fine Data Summary**

Total Sample Weight	57.72 grams
Total Fines in Sample	0.134 grams
Total Percent Fines	0.23 %

### **Dry Sieving Summary**

Total Sample Weight	57.737 grams
Total Digested Weight	22.010 grams
Total Carbonate Weight	35.727 grams
Total Silica %	38.12 %
Total Carbonate %	61.88 %
Carbonate/Silica Ratio	1.623

### **General Comments:**

None

### **Description**

Worked By: M. Ladle

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: PI-21

Total Sample Mass: 57.737 grams

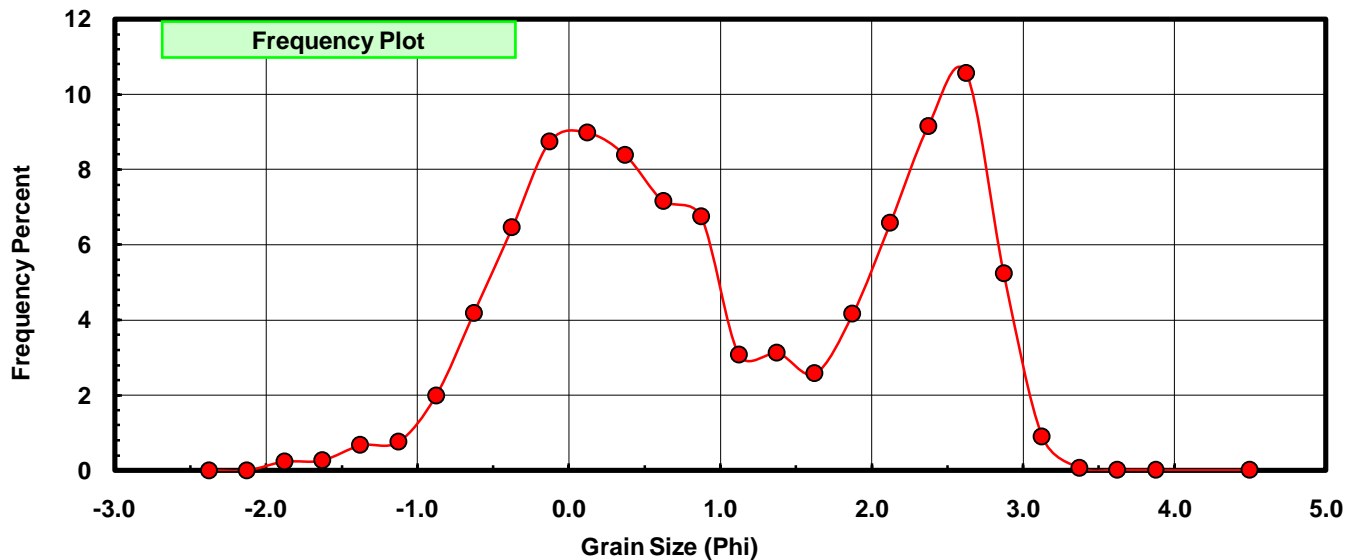
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.136	0.236	0.236
-1.50	-1.625	0.155	0.268	0.504
-1.25	-1.375	0.386	0.669	1.173
-1.00	-1.125	0.437	0.757	1.929
-0.75	-0.875	1.146	1.985	3.914
-0.50	-0.625	2.414	4.181	8.095
-0.25	-0.375	3.729	6.459	14.554
0.00	-0.125	5.050	8.747	23.300
0.25	0.125	5.180	8.972	32.272
0.50	0.375	4.837	8.378	40.650
0.75	0.625	4.131	7.155	47.805
1.00	0.875	3.892	6.741	54.546
1.25	1.125	1.778	3.079	57.625
1.50	1.375	1.807	3.130	60.755
1.75	1.625	1.486	2.574	63.329
2.00	1.875	2.399	4.155	67.484
2.25	2.125	3.800	6.582	74.065
2.50	2.375	5.283	9.150	83.215
2.75	2.625	6.101	10.567	93.782
3.00	2.875	3.021	5.232	99.014
3.25	3.125	0.517	0.895	99.910
3.50	3.375	0.036	0.062	99.972
3.75	3.625	0.007	0.012	99.984
4.00	3.875	0.005	0.009	99.993
5.00	4.50	0.004	0.007	100.000

Statistical Results			
Mean:	1.0548	phi	(0.4814 mm)
Standard Dev:	1.2125	phi-units	(0.4315 mm)
Skewness:	0.0433	dimensionless	
Kurtosis:	1.7216	dimensionless	
5th Moment:	-0.2305	dimensionless	
6th Moment:	4.0253	dimensionless	
RARD *	1.1496	dimensionless	
Median	0.7064	phi	(0.6128 mm)

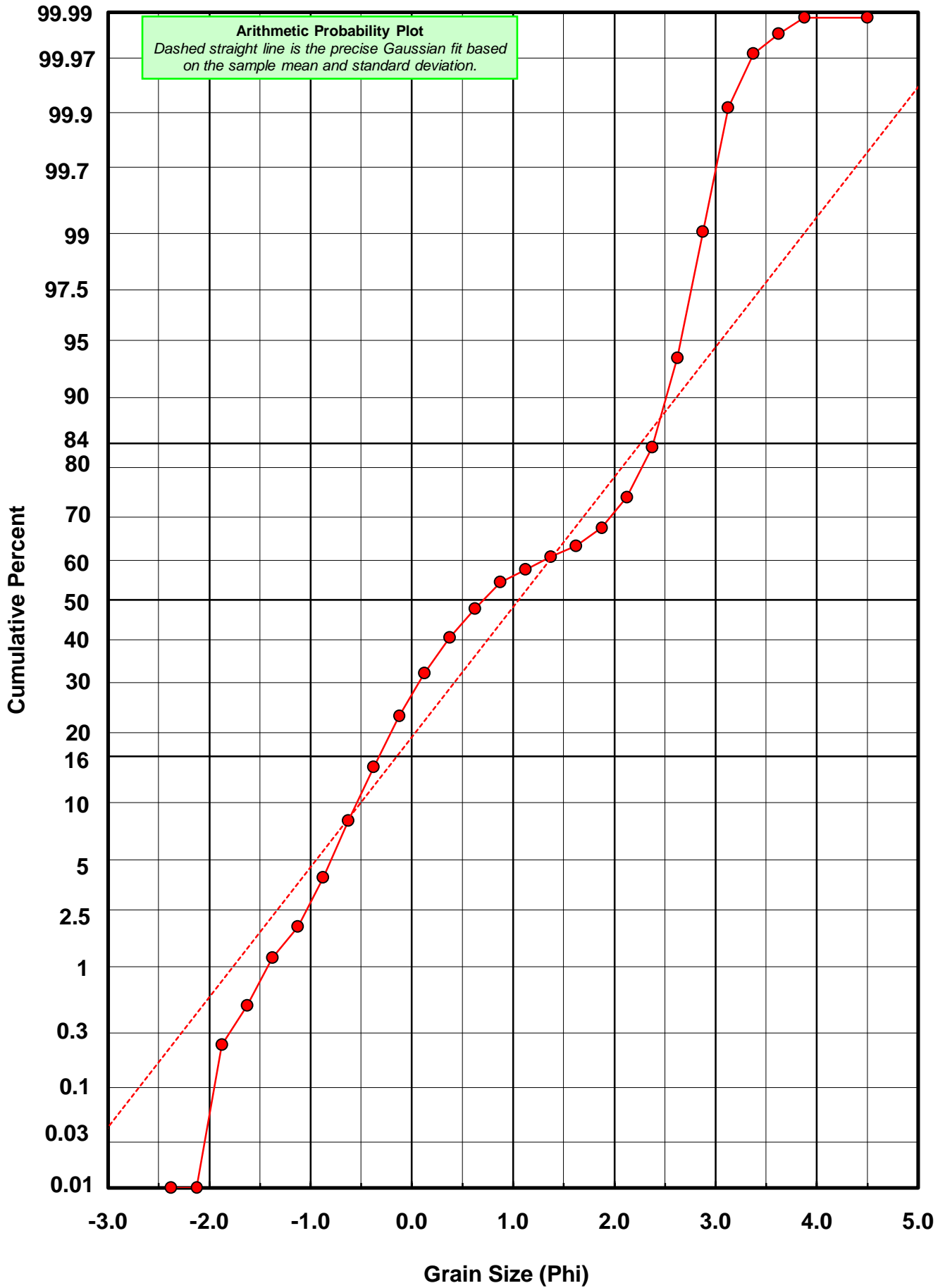
\* RARD = reciprocal absolute relative dispersion (see below)

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)



# PI-21



# Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: PI-21

Total Carbonate Mass: 36.138 grams

% Carbonate: 61.9 %

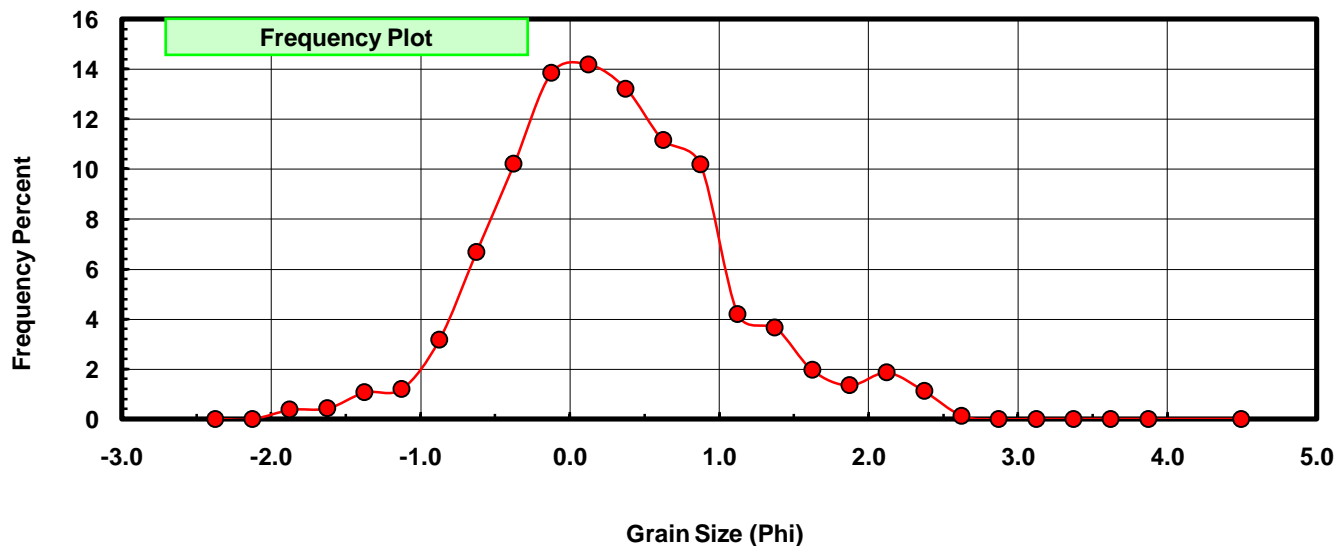
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.136	0.376	0.376
-1.50	-1.625	0.155	0.429	0.805
-1.25	-1.375	0.386	1.068	1.873
-1.00	-1.125	0.437	1.209	3.083
-0.75	-0.875	1.146	3.171	6.254
-0.50	-0.625	2.411	6.672	12.925
-0.25	-0.375	3.688	10.205	23.131
0.00	-0.125	5.001	13.839	36.969
0.25	0.125	5.128	14.190	51.159
0.50	0.375	4.775	13.213	64.373
0.75	0.625	4.029	11.149	75.522
1.00	0.875	3.683	10.191	85.713
1.25	1.125	1.515	4.192	89.905
1.50	1.375	1.326	3.669	93.575
1.75	1.625	0.710	1.965	95.539
2.00	1.875	0.489	1.353	96.892
2.25	2.125	0.671	1.857	98.749
2.50	2.375	0.406	1.123	99.873
2.75	2.625	0.046	0.127	100.000
3.00	2.875	0.000	0.000	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:	0.2832	phi	(0.8218 mm)
Standard Dev:	0.7636	phi-units	(0.589 mm)
Skewness:	0.3401	dimensionless	
Kurtosis:	3.3190	dimensionless	
5th Moment:	2.5048	dimensionless	
6th Moment:	17.2184	dimensionless	
RARD *	2.6963	dimensionless	
Median	0.1046	phi	(0.9301 mm)

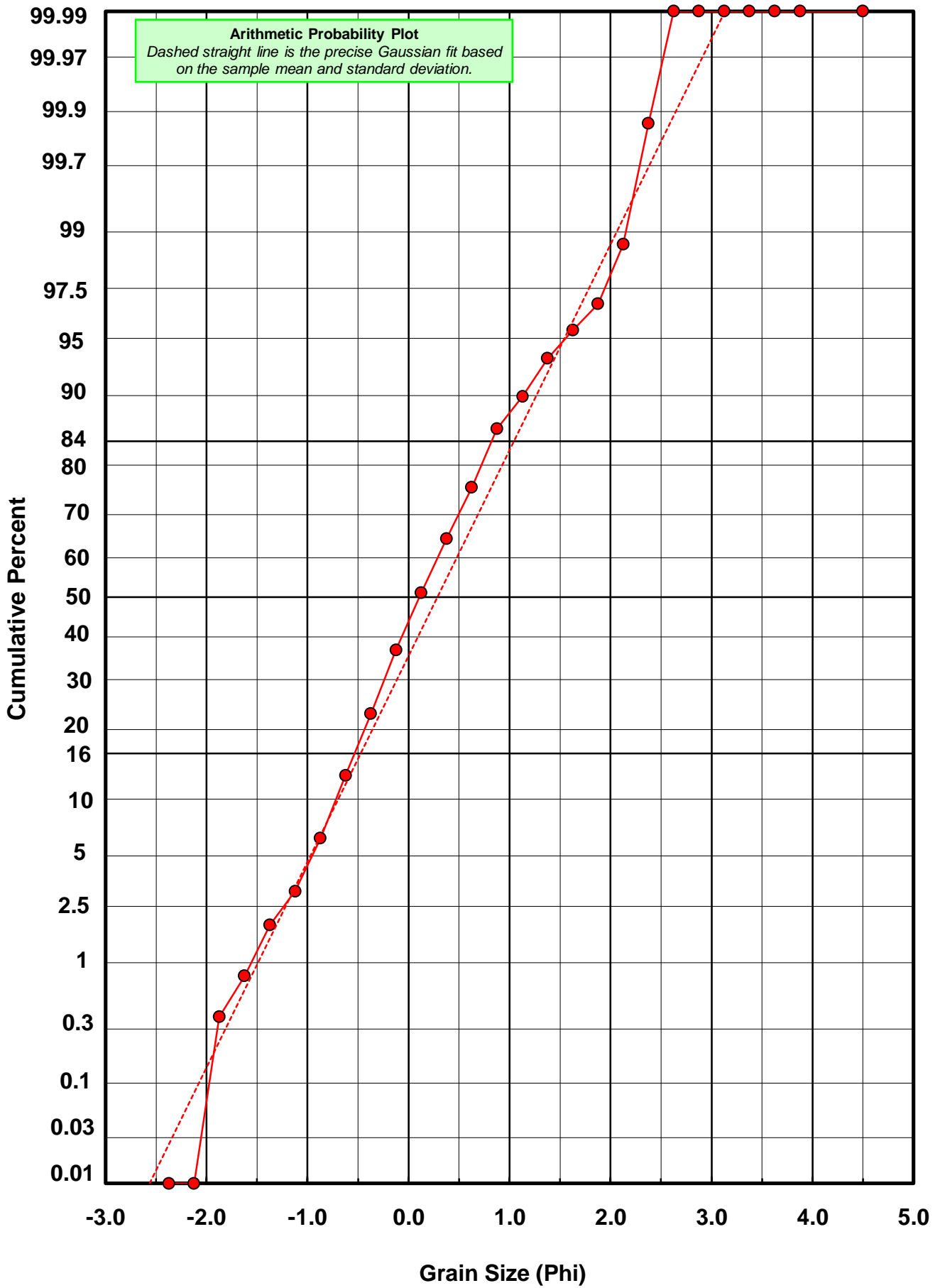
\* RARD = reciprocal absolute relative dispersion (see below)

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)



# PI-21



# Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: PI-21

Total Digested Mass: 22.010 grams

% Silica: 38.1 %

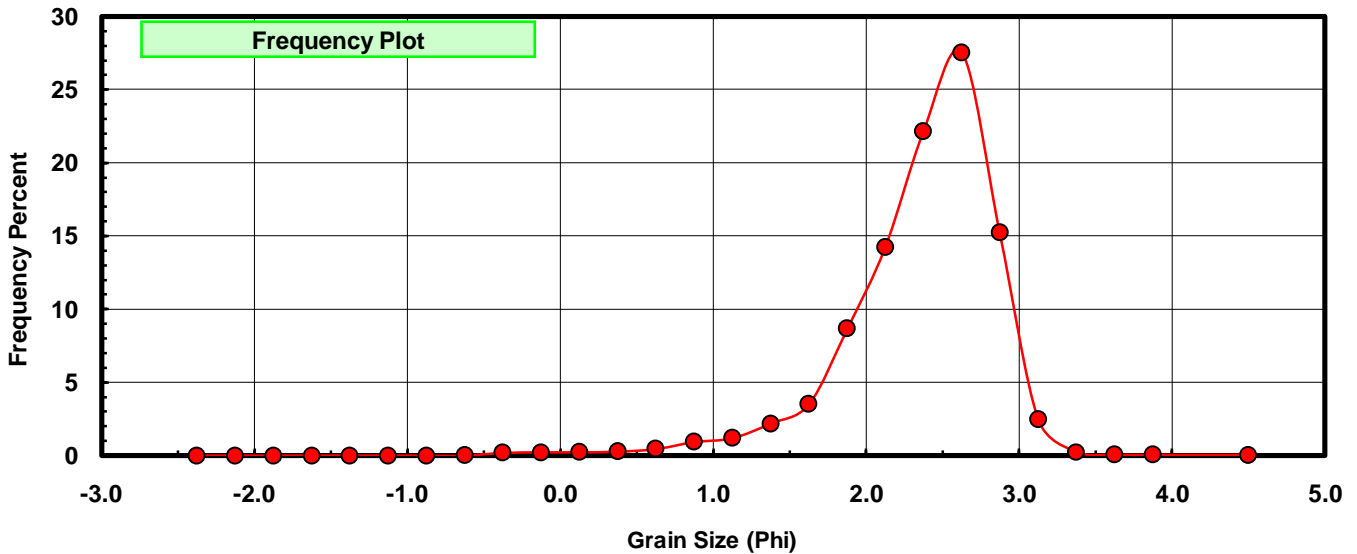
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.003	0.014	0.014
-0.25	-0.375	0.041	0.186	0.200
0.00	-0.125	0.049	0.223	0.423
0.25	0.125	0.052	0.236	0.659
0.50	0.375	0.062	0.282	0.940
0.75	0.625	0.102	0.463	1.404
1.00	0.875	0.209	0.950	2.353
1.25	1.125	0.263	1.195	3.548
1.50	1.375	0.481	2.185	5.734
1.75	1.625	0.776	3.526	9.259
2.00	1.875	1.910	8.678	17.937
2.25	2.125	3.129	14.216	32.154
2.50	2.375	4.877	22.158	54.312
2.75	2.625	6.055	27.510	81.822
3.00	2.875	3.354	15.239	97.060
3.25	3.125	0.549	2.494	99.555
3.50	3.375	0.060	0.273	99.827
3.75	3.625	0.016	0.073	99.900
4.00	3.875	0.014	0.064	99.964
5.00	4.500	0.008	0.036	100.000

Statistical Results			
Mean:	2.3575	phi	(0.1951 mm)
Standard Dev:	0.5167	phi-units	(0.6989 mm)
Skewness:	-1.5155	dimensionless	
Kurtosis:	7.1845	dimensionless	
5th Moment:	-25.8050	dimensionless	
6th Moment:	121.4342	dimensionless	
RARD *	0.2192	dimensionless	
Median	2.3264	phi	(0.1994 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)



# PI-21

