

**The National Marine Biological
Analytical Quality Control Scheme**

Particle Size Results – PS27

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Table 1. Summary of the particle size information received from participating laboratories and replicate analysis laboratories for the twenty-seventh particle size distribution - PS27.

Replicate Sample Data

Sample	Method	% < 63 micron	Median (phi)	Mean (phi)	Sort	IGS (SKi)
PS27_42	L	95.49	6.99	7.01	1.93	0.030
PS27_43	L	95.98	6.94	6.99	1.92	0.050
PS27_44	L	96.85	6.94	7.01	1.90	0.080
PS27_45	L	97.18	6.94	7.01	1.88	0.080
PS27_46	L	95.98	6.93	7.01	1.95	0.070
PS27_47	L	95.20	6.93	6.98	1.98	0.060
PS27_48	L	95.95	6.95	7.00	1.93	0.050
PS27_35	S	98.77	-	-	-	-
PS27_36	S	99.36	-	-	-	-
PS27_37	S	99.30	-	-	-	-
PS27_38	S	99.09	-	-	-	-
PS27_39	S	99.07	-	-	-	-
PS27_40	S	99.16	-	-	-	-
PS27_41	S	99.01	-	-	-	-
UM	Overall Average	97.60	6.95	7.00	1.93	0.06
UM	LaserRepAv	96.09	6.95	7.00	1.93	0.06
UM	SieveRepAv	99.11	-	-	-	-

Participant Data

Lab	Method	%<63µm	Median	Mean	Sort	IGS (SKi)
LB1201	L	97.61	6.60	6.44	1.24	-0.27
LB1202	WS/DS/L	76.95	5.21	5.31	1.90	0.140
LB1203	L	99.46	8	7.70	1.18	-0.4231
LB1206*	L	93.11	6.66	6.37	1.51	-0.28
LB1207	L	93.11	6.66	6.37	1.51	-0.28
LB1212	L	94.06	6.48	5.62	1.58	0.01
LB1217	L	94.96	6.16	5.45	1.61	-0.160
LB1221	L	95.93	6.78	6.74	1.59	3.54
LB1224	L	97.31	6.78	6.71	1.50	0.04

Key to methods:

- L - Laser analysis DS - Dry sieve CC - Coulter counter
- S - Sieve WS - Wet sieve FD - Freeze dried
- P - Pipette n/c - not calculated
- L* - data for this laboratory not included in calculations.
- "-" - No data. See forthcoming Annual Report, Section 6, for details.
- Shaded cells - maximum and minimum values for each derived statistic.

Table 2. Z-score results for the derived statistics supplied by participating laboratories for the particle size exercise - PS27.

PS27																
Lab	%<63µm	z-score	Flag	Median	z-score	Flag	Mean	z-score	Flag	Sort	z-score	Flag	IGS (SKi)	z-score	Flag	Description
LaserRepAv	96.09	0.03	PASS	6.95	1.24	PASS	7.00	1.14	PASS	1.93	1.89	PASS	0.060	0.74	PASS	Unspecified
SieveRepAv	99.11	1.57	PASS	-	-	Deemed Fail	-	-	Deemed Fail	-	-	Deemed Fail	-	-	Deemed Fail	-
LB1201	97.61	0.81	PASS	6.60	-0.12	PASS	6.44	0.18	PASS	1.24	-1.65	PASS	-0.270	-1.21	PASS	Mud/Mud
LB1202	76.95	-9.68	Fail	5.21	-5.57	Fail	5.31	-1.75	PASS	1.90	1.74	PASS	0.140	1.22	PASS	Black, anoxic, slightly sandy mud + org. frags/Sandy mud
LB1203	99.46	1.74	PASS	8	5.38	Fail	7.70	2.34	Fail	1.18	-1.96	PASS	-0.4231	-2.11	Fail	Mud/Mud
LB1206*	93.11	-1.48	PASS	6.66	0.12	PASS	6.37	0.06	PASS	1.51	-0.26	PASS	-0.28	-1.27	PASS	Mud/Mud
LB1207	93.11	-1.48	PASS	6.66	0.12	PASS	6.37	0.06	PASS	1.51	-0.26	PASS	-0.280	-1.27	PASS	Mud/Mud
LB1212	94.06	-1.00	PASS	6.48	-0.59	PASS	5.62	-1.22	PASS	1.58	0.10	PASS	0.010	0.45	PASS	Mud/-
LB1217	94.96	-0.54	PASS	6.16	-1.84	PASS	5.45	-1.51	PASS	1.61	0.25	PASS	-0.160	-0.56	PASS	Silt/Silt
LB1221	95.93	-0.05	PASS	6.78	0.59	PASS	6.74	0.70	PASS	1.59	0.15	PASS	3.54	21.32	Fail	Fine Mud/Mud
LB1224	97.31	0.65	PASS	6.78	0.59	PASS	6.71	0.64	PASS	1.50	-0.32	PASS	0.040	0.63	PASS	Mud/Mud

"-" no return and/or data from laboratory. See text, Section 6 in the forthcoming Annual Report, for details.

"*" = centralised analysis

Figure 1. Particle size distribution curves resulting from analysis of fourteen replicate samples of sediment distributed as PS27. Seven samples analysed by sieve and seven samples analysed by Laser.

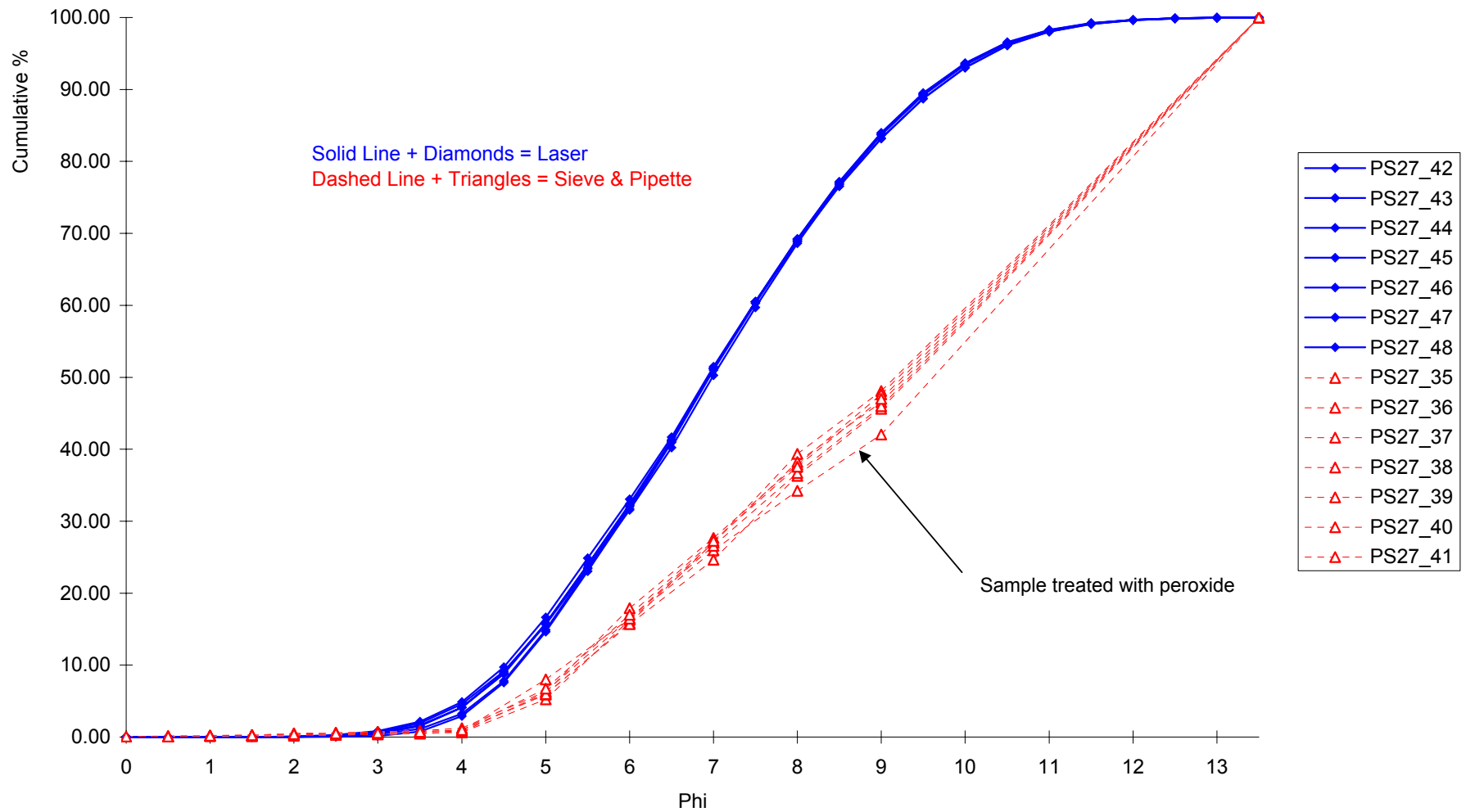


Figure 2. Particle size distribution curves from participating laboratories for sediment samples from PS27.

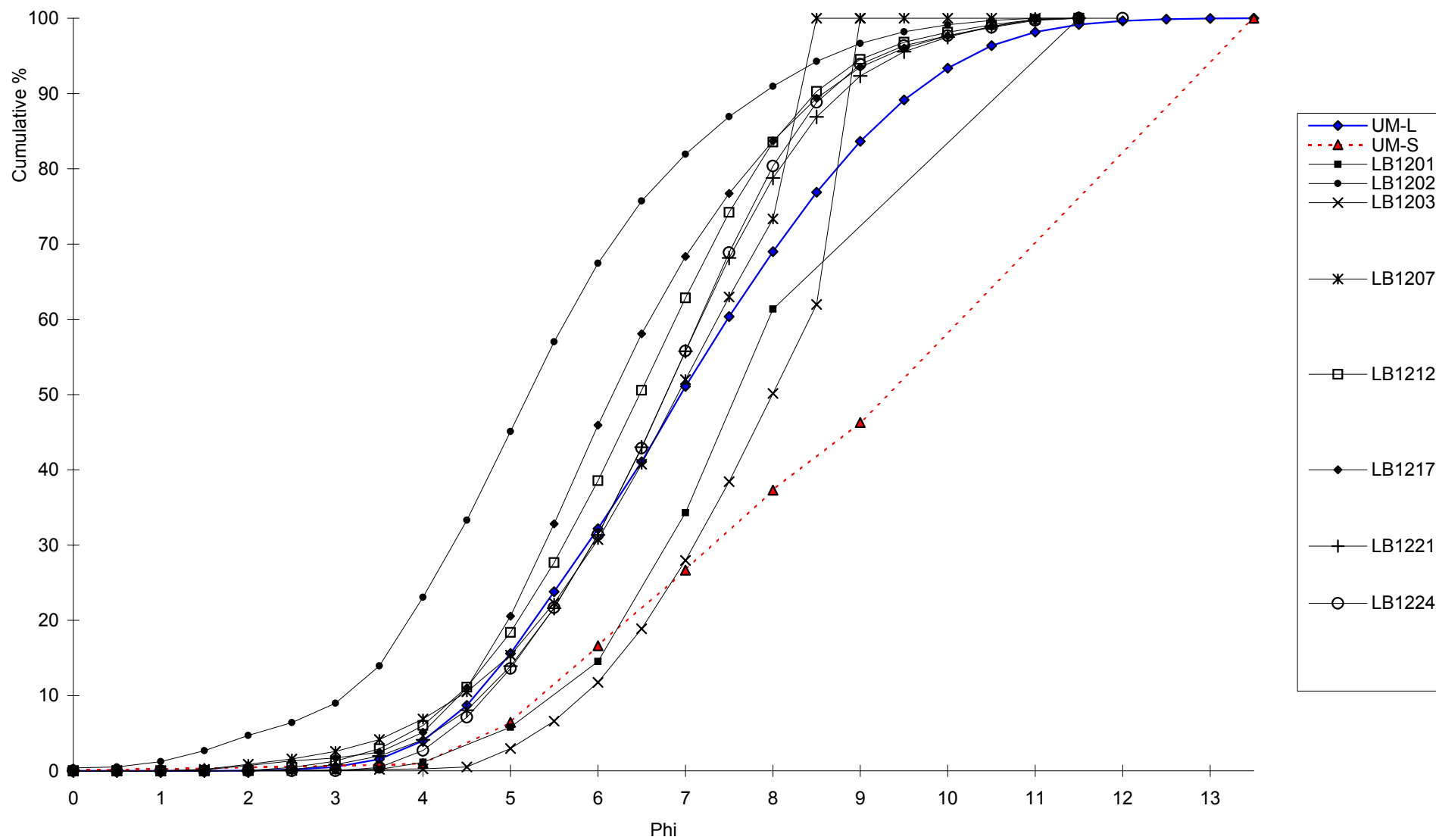


Figure 3. Z-scores for PS27 derived statistics (replicated data not displayed).

