



NMBAQC

NE Atlantic Marine Biological Analytical Quality Control Scheme

NMBAQC Scheme 2025/26

PS96 Report



Client: North-East Atlantic Marine Biological Analytical Quality Control Scheme

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Revision and Amendment Register

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1.0	Interim	12/01/2026	All	All	n/a	LMB
2.0	Final	11/05/2026	2	9-17	Updated PSA_3210 data	LMB

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Participation

At time of issue no results have been received by participants PSA_3203, PSA_3216 or PSA_3217.

1. BENCHMARK DATA

Table 1 Summary data for the Benchmark replicates distributed as PS96.

Sample	Method	% Gravel	% Sand	% Mud	Sediment Description
PSA_3136 BM REP 1	NMBAQC	53.20	27.96	18.83	Muddy Sandy Gravel
PSA_3137 BM REP2	NMBAQC	53.26	28.27	18.47	Muddy Sandy Gravel
PSA_3138 BM REP 3	NMBAQC	53.41	28.28	18.31	Muddy Sandy Gravel
PSA_3139 BM REP 4	NMBAQC	53.40	27.94	18.66	Muddy Sandy Gravel
PSA_3140 BM REP 5	NMBAQC	53.36	28.68	17.97	Muddy Sandy Gravel
BM Rep Average	NMBAQC	53.33	28.23	18.45	Muddy Sandy Gravel

Table 2 Summary of the sieve data the Benchmark replicates distributed as PS96.

Phi Interval; microns	PSA_3236 BM REP 1	PSA_3237 BM REP 2	PSA_3238 BM REP 3	PSA_3239 BM REP 4	PSA_3240 BM REP 5	BM Rep Average
Starting Weight	349.88	353.1	354.14	354.12	354.38	353.124
-6.50 to -6.00; 63 mm	0.00	0.00	0.00	0.00	0.00	0.00
-6.00 to -5.50; 45 mm	0.00	0.00	0.00	0.00	0.00	0.00
-5.50 to -5.00; 31.5 mm	0.00	0.00	0.00	0.00	0.00	0.00
-5.00 to -4.50; 22.4 mm	0.00	0.00	0.00	0.00	0.00	0.00
-4.50 to -4.00; 16 mm	67.81	63.60	61.77	74.79	68.03	67.20
-4.00 to -3.50; 11.2 mm	57.59	64.51	68.36	52.33	61.50	60.86
-3.50 to -3.00; 8 mm	44.24	43.28	46.72	42.99	41.34	43.71
-3.00 to -2.50; 5.6 mm	26.74	29.20	20.18	26.53	26.31	25.79
-2.50 to -2.00; 4 mm	26.91	25.59	26.83	27.34	27.81	26.90
-2.00 to -1.50; 2.8 mm	26.30	25.75	28.37	28.28	27.20	27.18
-1.50 to -1.00; 2 mm	28.93	29.60	30.11	29.97	30.45	29.81
-1.00 to -0.50; 1.4 mm	35.72	36.64	36.30	36.93	35.63	36.24
-0.50 to 0.00; 1.0 mm	34.82	34.43	34.88	34.31	35.16	34.72
>1.0mm	349.06	352.60	353.52	353.47	353.43	352.42
<1.0mm	Base Pan	0.82	0.48	0.57	0.63	0.68
	Oven dried	173.64	175.49	174.57	174.42	174.69
	Total	174.46	175.97	175.14	175.05	175.38
Total Weight	523.52	528.57	528.66	528.52	529.70	527.79
% increase/ decrease	0.00	-0.01	-0.01	-0.01	-0.01	-0.01

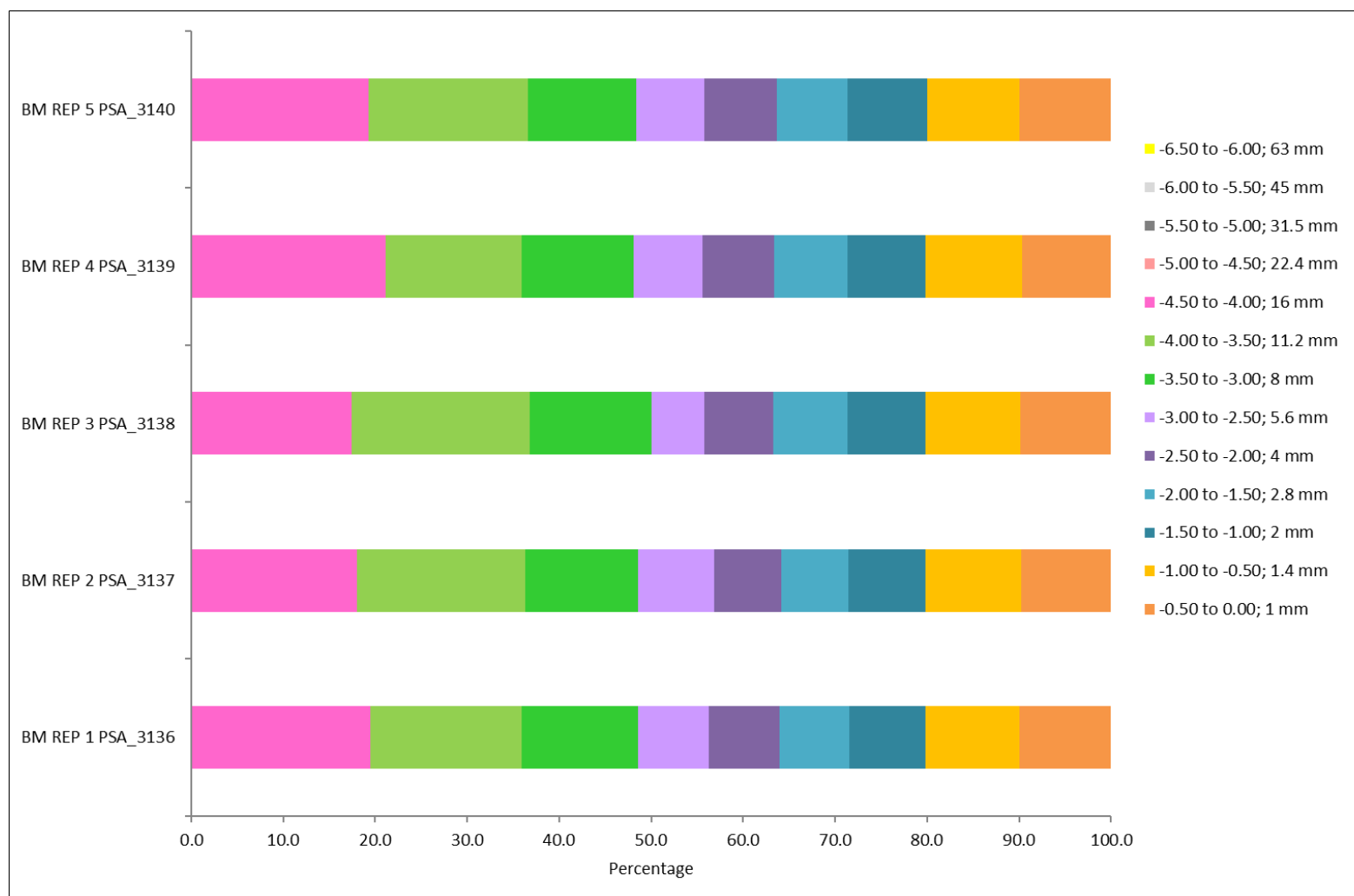


Figure 1 Bar Charts resulting from sieve analysis (>1mm) of 5 replicate samples of sediment distributed as PS96 (Benchmark Data)

Table 3 Summary of the final laser data for the Benchmark replicates distributed as PS96.

Phi Interval; microns	PSA_3236 BM REP 1	PSA_3237 BM REP2	PSA_3238 BM REP 3	PSA_3239 BM REP 4	PSA_3240 BM REP 5	BM Rep Average
0.00 to 0.50; (707 μm)	4.19	4.43	4.95	4.65	5.50	4.74
0.50 to 1.00; (500 μm)	3.38	4.07	4.19	3.42	3.99	3.81
1.00 to 1.50; (353.6 μm)	4.47	4.66	4.49	4.29	4.50	4.48
1.50 to 2.00; (250 μm)	3.79	4.02	3.98	3.83	4.25	3.97
2.00 to 2.50; (176.8 μm)	4.01	4.10	3.80	4.11	4.29	4.06
2.50 to 3.00; (125 μm)	6.04	5.80	6.17	6.04	6.15	6.04
3.00 to 3.50; (88.39 μm)	9.00	9.02	9.07	9.05	9.21	9.07
3.50 to 4.00; (62.5 μm)	8.61	8.42	8.06	8.28	8.13	8.30
4.00 to 4.50; (44.19 μm)	5.95	5.81	5.77	6.01	5.92	5.89
4.50 to 5.00; (31.25 μm)	5.54	5.28	5.15	5.01	5.08	5.21
5.00 to 5.50; (22.097 μm)	5.12	4.88	4.81	4.70	4.35	4.77
5.50 to 6.00; (15.625 μm)	5.38	5.11	4.99	5.23	4.92	5.13
6.00 to 6.50; (11.049 μm)	5.86	5.70	5.61	5.79	5.50	5.69
6.50 to 7.00; (7.813 μm)	5.31	5.22	5.22	5.41	5.06	5.24
7.00 to 7.50; (5.524 μm)	4.88	4.81	4.90	5.03	4.68	4.86
7.50 to 8.00; (3.906 μm)	4.31	4.26	4.38	4.44	4.15	4.31
8.00 to 8.50; (2.762 μm)	3.35	3.35	3.43	3.45	3.26	3.37
8.50 to 9.00; (1.953 μm)	2.43	2.47	2.48	2.50	2.40	2.46
9.00 to 9.50; (1.381 μm)	1.80	1.85	1.83	1.85	1.81	1.83
9.50 to 10.00; (0.977 μm)	1.38	1.42	1.39	1.43	1.41	1.40
10.00 to 10.50; (0.691 μm)	1.10	1.13	1.11	1.16	1.14	1.13
10.50 to 11.00; (0.488 μm)	0.96	0.98	0.97	1.01	1.00	0.99
11.00 to 11.50; (0.345 μm)	0.88	0.89	0.89	0.92	0.91	0.90
11.50 to 12.00; (0.244 μm)	0.78	0.79	0.79	0.80	0.81	0.79
12.00 to 12.50; (0.173 μm)	0.62	0.63	0.63	0.64	0.65	0.63
12.50 to 13.00; (0.122 μm)	0.46	0.47	0.48	0.49	0.49	0.48
13.00 to 13.50; (0.086 μm)	0.29	0.30	0.30	0.31	0.31	0.30
13.50 to 14.00; (0.061 μm)	0.12	0.12	0.12	0.12	0.12	0.12
14.00 to 14.50; (0.043 μm)	0.02	0.02	0.02	0.02	0.02	0.02
>14.50; (0.01 μm)	0.00	0.00	0.00	0.00	0.00	0.00
Total	100.00	100.00	100.00	100.00	100.00	100.00

Summary Data

Mean	36.22	38.15	38.68	36.21	40.54	37.97
Sorting	7.35	7.68	7.81	7.63	7.95	7.69
Skewness	-0.15	-0.15	-0.15	-0.15	-0.17	-0.15
Kurtosis	0.99	0.97	0.97	0.98	0.97	0.98
Mode	Polymodal	Polymodal	Polymodal	Polymodal	Polymodal	Polymodal
MODE 1 (μm):	106.7	106.7	106.7	106.7	106.7	106.7
MODE 2 (μm):	13.3	13.3	13.3	13.3	13.3	13.3
MODE 3 (μm):	426.8	426.8	853.5	853.5	853.5	853.5

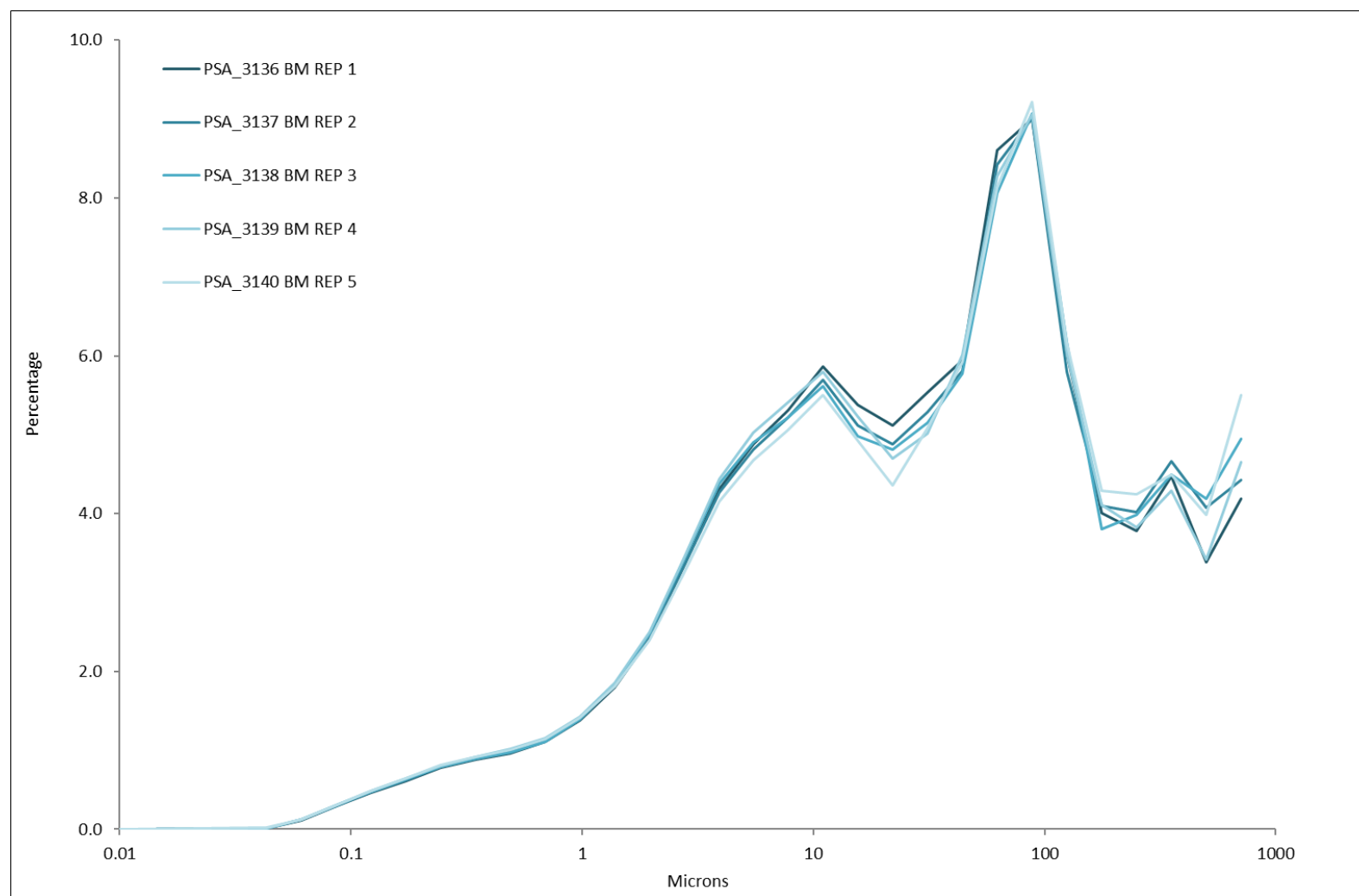


Figure 2 Particle size distribution curves resulting from final laser analysis of 5 replicate samples of sediment distributed as PS96 (Benchmark Data)

Table 4 Summary of Coefficient of Variation for Benchmark laser replicates for PS96.

		PSA_3236 BM REP 1	PSA_3237 BM REP2	PSA_3238 BM REP 3	PSA_3239 BM REP 4	PSA_3140 BM REP 5
D ₁₀	Sub-sample 1	0.03	0.06	0.04	0.02	0.05
	Sub-sample 2	0.11	0.08	0.34	0.10	0.06
	Sub-sample 3	0.10	0.07	0.10	0.00	0.03
D ₅₀	Sub-sample 1	0.15	0.06	0.06	0.11	0.02
	Sub-sample 2	0.03	0.13	0.04	0.09	0.07
	Sub-sample 3	0.10	0.03	0.07	0.04	0.11
D ₉₀	Sub-sample 1	1.49	0.54	0.73	0.99	0.30
	Sub-sample 2	0.55	1.03	0.32	0.72	0.55
	Sub-sample 3	0.58	0.33	0.52	0.63	0.79

$$COV = \left(\frac{StDev}{Mean} \right) * 100$$

ISO 133020 defines good reproducibility when: COV is <3% for D50

COV is <5% for D10 and D90

All limits double when the D50 is <10microns.

In reality 3% and 5% are low and greater variability is expected for natural sediment samples therefore a maximum of 20% (based on three replicates being measured) will be used as a guide.

The Benchmark replicates show good reproducibility.

Table 5 Laser Metadata for the Benchmark replicates for PS96.

	Benchmark Lab
Laser used:	Beckman Coulter LS 13320
Dispersion Unit:	Universal Liquid Module
Analysis model:	Mie
Dispersion Used	Water (RI – 1.33)
Particle Refractive Index	1.55
Particle Absorption Index:	0.1
Fines extension	PIDS system
Obscuration	10%
Pump Speed (% or rpm)	80%
Stirrer speed (% or rpm)	n/a
Ultrasonic duration	20
Ultrasonic level	2

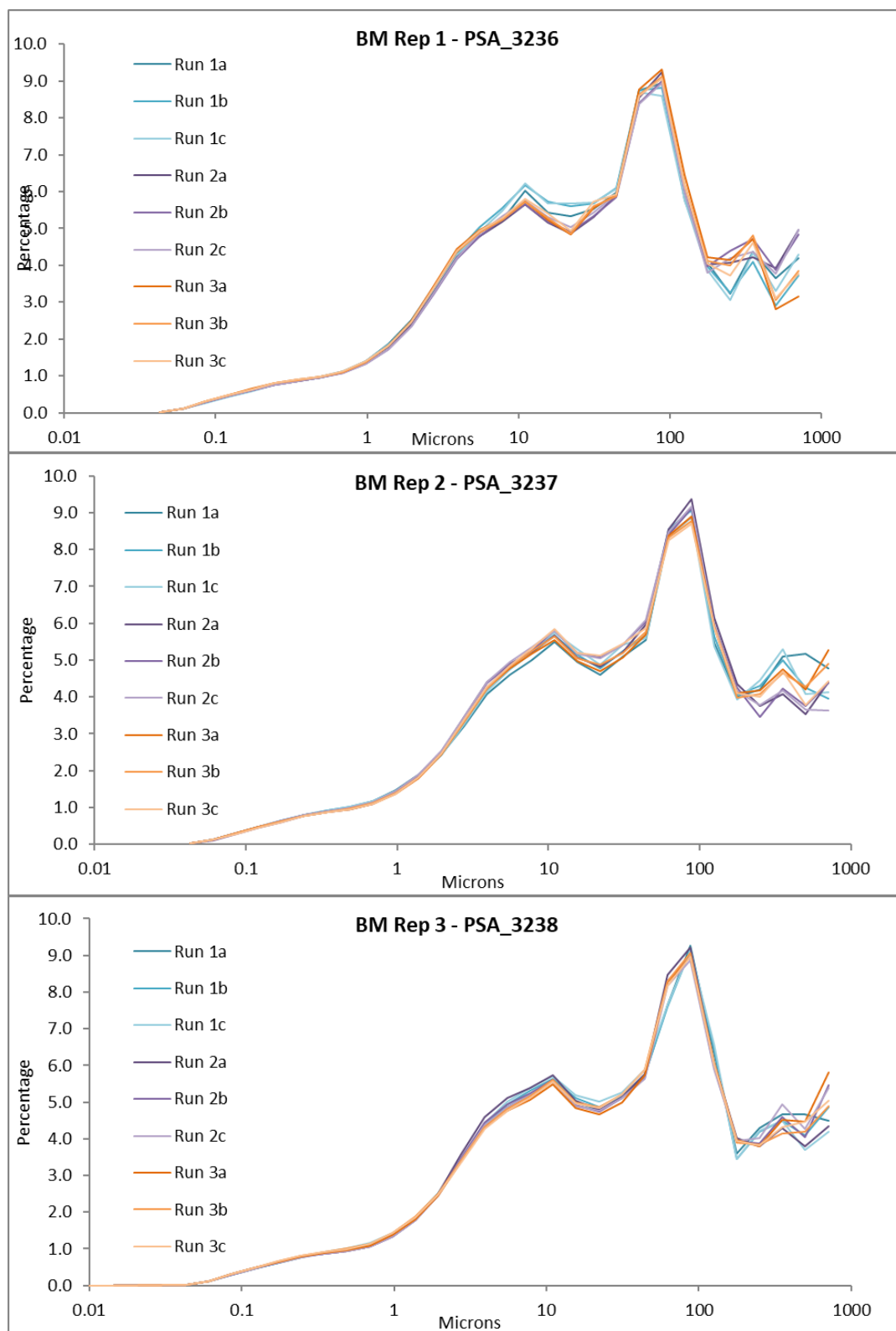


Figure 3 Particle size distribution curves resulting from laser analysis of five replicate samples of sediment distributed as PS96.

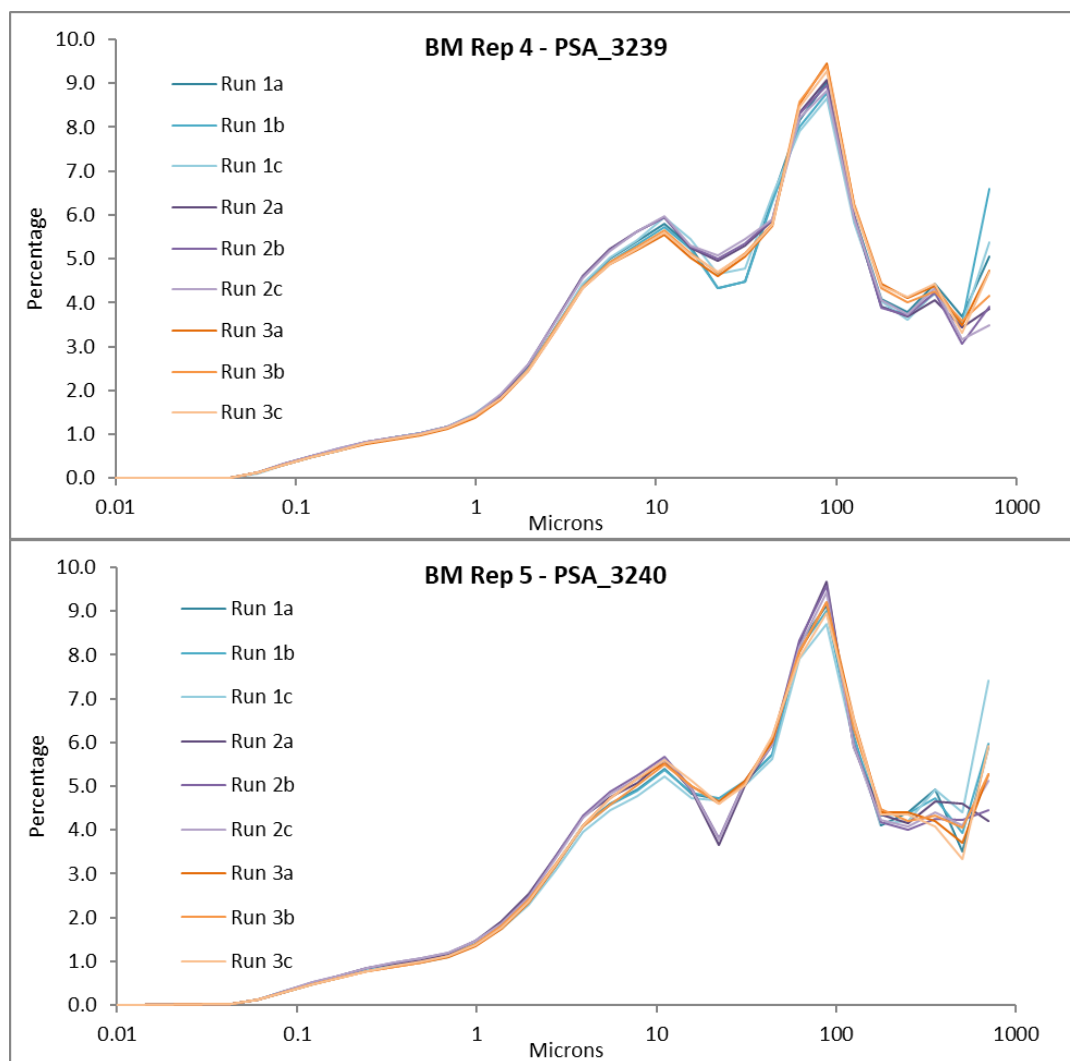


Figure 3 Particle size distribution curves resulting from laser analysis of five replicate samples of sediment distributed as PS96.

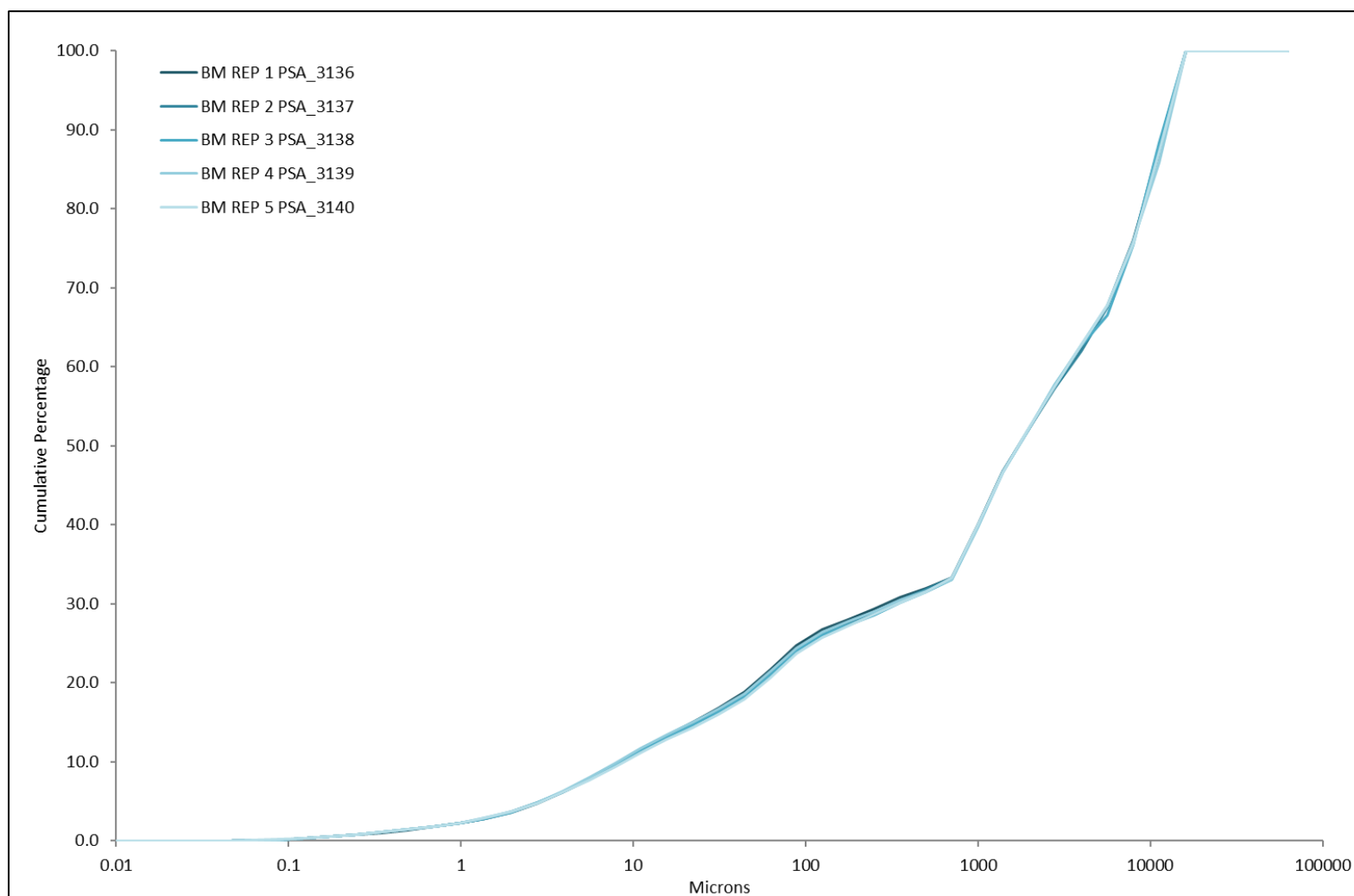


Figure 4 Particle size distribution curves resulting from analysis of 5 replicate samples of sediment distributed as PS96 (Benchmark Data).

2. PARTICIPANT DATA

Table 6 Summary of equipment and methods used by participants and sample summary data provided by participants for sediment distributed as PS96.

Lab	Equipment Used		Method Used	Chemical Dispersant	Peroxide pre-treatment	Summary Data			Sediment Description	
	Sieves	Laser				% Gravel	% Sand	% Mud	(post analysis)	Gradistat Textural Group
BM Average	Yes	Yes	NMBAQC	No	No	53.33	28.23	18.45	Muddy Sandy Gravel	Muddy Sandy Gravel
PSA_3201	Yes	Yes	NMBAQC	No	No	55.80	25.02	19.18	Sandy Gravel	Muddy Sandy Gravel
PSA_3202	Yes	Yes	OTHER	No	No	58.52	22.72	18.76	Muddy Sand Gravel	Muddy Sandy Gravel
PSA_3204	Yes	Yes	NMBAQC	No	No	54.49	27.95	17.56	Muddy Sandy Gravel	Muddy Sandy Gravel
PSA_3205	No	Yes	OTHER	No	No	56.84	17.25	26.33	Gravel with some sand	Muddy Gravel
PSA_3206_a	Yes	Yes	NMBAQC	No	No	51.62	28.86	19.52	Muddy Sandy Gravel	Muddy Sandy Gravel
PSA_3206_b	Yes	Yes	NMBAQC	No	No	51.62	28.22	20.16	Muddy Sandy Gravel	Muddy Sandy Gravel
PSA_3207	Yes	Yes	OTHER	No	No	53.96	28.26	17.78	Muddy Sandy Gravel	Muddy Sandy Gravel
PSA_3208	Yes	Yes	NMBAQC	No	No	56.52	25.99	17.49	Muddy Sandy Gravel	Muddy Sandy Gravel
PSA_3209	Yes	Yes	NMBAQC	No	No	52.90	25.00	22.10	Muddy Sandy Gravel	Muddy Sandy Gravel
PSA_3210	Yes	Yes	NMBAQC	No	No	62.66	19.66	17.68	Fine sandy, gravelly mud	Muddy Sandy Gravel
PSA_3211	Yes	Yes	NMBAQC	No	No	59.76	24.19	16.05	Muddy Sandy Gravel	Muddy Sandy Gravel
PSA_3212	Yes	Yes	NMBAQC	No	No	55.80	26.10	18.10	Muddy Sandy Gravel	Muddy Sandy Gravel
PSA_3213	Yes	Yes	NMBAQC	No	No	53.49	26.97	19.54	Mixed sediments	Muddy Sandy Gravel
PSA_3214	Yes	Yes	NMBAQC	No	No	52.12	26.11	21.78	Muddy Sandy Gravel	Muddy Sandy Gravel
PSA_3215	Yes	Yes	NMBAQC	No	No	53.46	28.18	18.35	Muddy Sandy Gravel	Muddy Sandy Gravel

Table 7 Summary of the sieve data provided by participants for sediment distributed as PS96.

Phi interval (explicit); Sieve mesh (mm)	BM Average	PSA_3201	PSA_3202	PSA_3204	PSA_3205	PSA_3206_a	PSA_3207	PSA_3208	PSA_3209
Starting weight (>1.0mm)	353.124	476.84	-	357.15	-	309.03	356.77	345.23	351.40
-6.50 to -6.00; 63 mm	0.00	0.00		0.00		0.000	0.000	0.000	0.00
-6.00 to -5.50; 45 mm	0.00	0.00		0.00		0.000	0.000	0.000	0.00
-5.50 to -5.00; 31.5 mm	0.00	0.00		0.00		0.000	0.000	0.000	0.00
-5.00 to -4.50; 22.4 mm	0.00	0.00		0.00		0.000	0.000	0.000	0.00
-4.50 to -4.00; 16 mm	67.20	86.99		61.17		47.76	69.533	71.284	62.25
-4.00 to -3.50; 11.2 mm	60.86	43.93		60.66		53.24	60.967	79.371	70.15
-3.50 to -3.00; 8 mm	43.71	29.08		46.38		37.22	41.200	37.861	35.09
-3.00 to -2.50; 5.6 mm	25.79	22.10		32.78		28.30	30.267	25.501	26.61
-2.50 to -2.00; 4 mm	26.90	21.70		24.32		22.73	24.133	19.352	28.33
-2.00 to -1.50; 2.8 mm	27.18	28.26		26.63		24.40	27.867	22.367	27.06
-1.50 to -1.00; 2 mm	29.81	34.01	311.62	32.58	302.31	27.20	30.600	27.704	30.61
-1.00 to -0.50; 1.4 mm	36.24	32.27		38.91		34.40	37.767	31.777	36.61
-0.50 to 0.00; 1 mm	34.72	15.03	49.64	33.15		31.57	32.767	30.292	34.70
Total	352.42	313.37	361.26	356.57	302.31	306.82	355.10	345.51	351.40
Summary Data									
>1.00 mm	352.42	313.37	361.26	356.57	302.31	306.82	355.100	345.509	351.40
<1.0mm	Base pan	0.68	-	-	0.43	-	2.19	-	0.687
	Oven dried	174.69	-	-	165.15	312.54	157.57	172.233	155.290
	Total	175.38	0.00	-	165.58	312.54	159.76	172.233	155.977
Total Sample Weight	527.79	313.37	-	522.15	614.85	466.58	527.333	501.486	529.65
% increase/ decrease	-0.01	-	-	-0.04	-	-0.01	-0.60	0.28	0.36

Table 7 Summary of the sieve data provided by participants for sediment distributed as PS96.

Phi interval (explicit); Sieve mesh (mm)	BM Average	PSA_3210	PSA_3211	PSA_3212	PSA_3213	PSA_3214	PSA_3215	
Starting weight (>1.0mm)	353.124	385.91	317.01	327.87	342.07	318.78	344.74	
-6.50 to -6.00; 63 mm	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-6.00 to -5.50; 45 mm	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-5.50 to -5.00; 31.5 mm	0.00	51.87	0.00	0.00	0.00	0.00	0.00	
-5.00 to -4.50; 22.4 mm	0.00	27.95	29.20	0.00	0.00	0.00	0.00	
-4.50 to -4.00; 16 mm	67.20	50.76	34.00	54.91	61.13	62.63	75.75	
-4.00 to -3.50; 11.2 mm	60.86	43.94	40.28	71.85	70.04	55.33	53.54	
-3.50 to -3.00; 8 mm	43.71	29.07	39.59	38.40	39.75	33.87	43.41	
-3.00 to -2.50; 5.6 mm	25.79	25.48	29.25	28.41	23.12	25.65	20.89	
-2.50 to -2.00; 4 mm	26.90	32.67	22.71	24.08	20.29	19.78	27.11	
-2.00 to -1.50; 2.8 mm	27.18	33.10	25.10	23.42	28.09	25.18	25.23	
-1.50 to -1.00; 2 mm	29.81	37.70	26.49	25.34	30.10	26.60	29.20	
-1.00 to -0.50; 1.4 mm	36.24	33.97	35.00	32.75	36.05	32.99	35.44	
-0.50 to 0.00; 1 mm	34.72	10.08	30.80	27.99	31.51	29.58	33.14	
Total	352.42	376.59	312.42	327.15	340.08	311.62	343.71	
Summary Data								
>1.00 mm		352.42	376.59	312.42	327.15	340.08	311.62	343.71
<1.0mm	Base pan	0.68	9.28	4.77	0.83	2.25	6.95	0.80
	Oven dried	174.69	144.87	154.08	149.50	167.19	159.30	170.09
	Total	175.38	154.15	158.85	150.33	169.44	166.25	170.89
Total Sample Weight		527.79	530.74	471.27	477.48	509.52	477.87	514.60
% increase/ decrease		-0.01	0.01	0.06	0.03	0.08	-0.06	-0.07

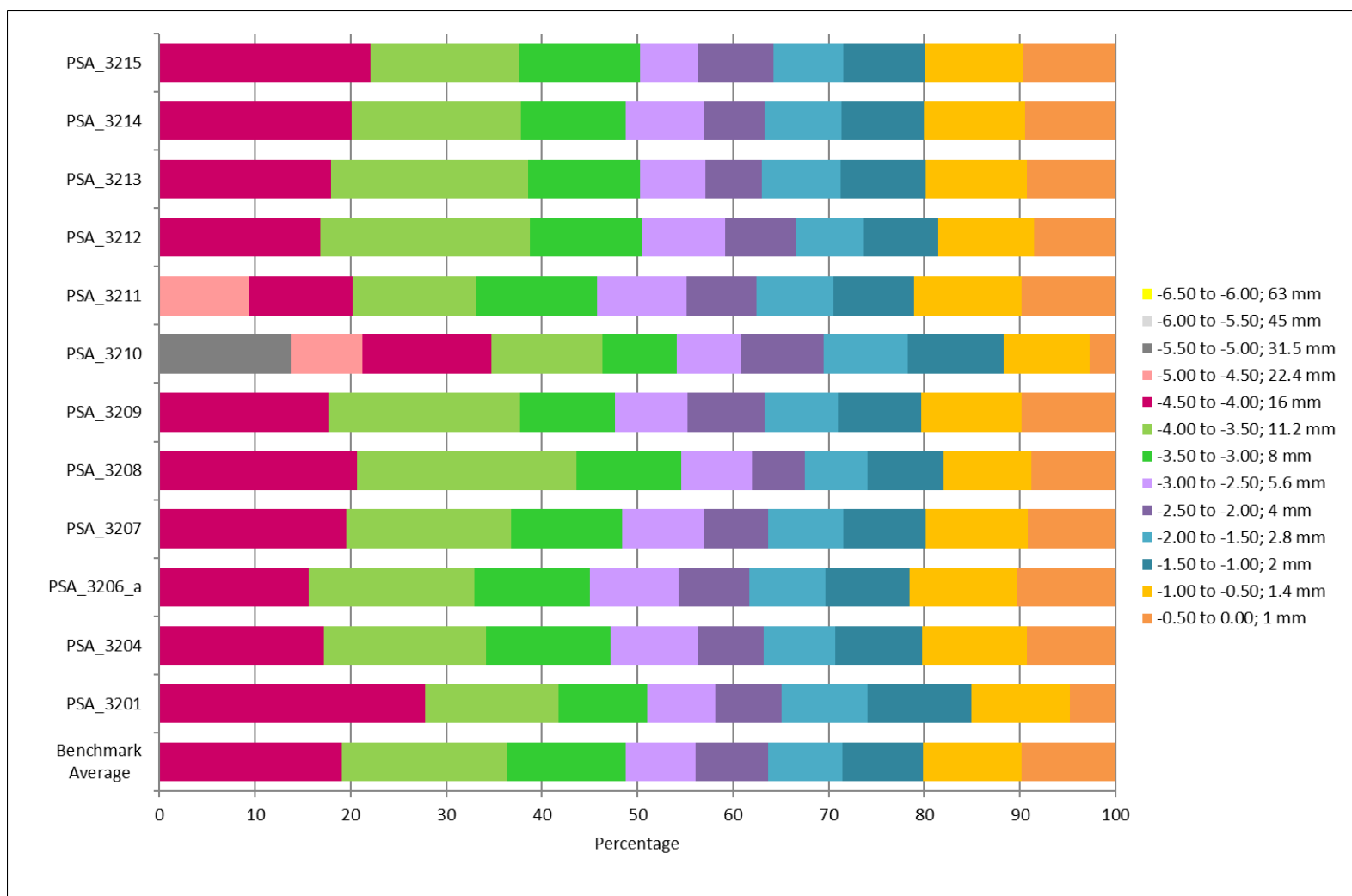


Figure 5 Final sieve data (in percentages) provided by each participant for sediment distributed as PS96.

Table 8 Summary of final laser data for the participants for sediment distributed as PS96 with Gradistat output.

Microns	BM Average	PSA_3201	PSA_3202	PSA_3204	PSA_3205	PSA_3206_a	PSA_3206_b	PSA_3207	PSA_3208
1400					0.54				
1000					1.23				
707	4.74	0.04	1.20	2.09	2.34	7.13	2.94	0.41	0.03
500	3.81	1.24	3.33	3.73	2.89	9.11	2.95	2.35	1.40
353.6	4.48	3.39	3.95	4.51	2.89	5.19	2.62	4.15	3.63
250	3.97	4.35	3.77	4.54	3.72	3.90	1.73	4.55	4.52
176.8	4.06	5.33	4.29	5.08	6.07	2.93	3.95	5.27	5.30
125	6.04	8.00	6.21	6.91	8.82	3.00	7.70	7.74	7.73
88.39	9.07	10.90	8.65	8.84	10.13	5.41	11.41	10.43	10.52
62.5	8.30	10.80	10.27	8.91	10.18	6.33	7.82	10.66	10.64
44.19	5.89	8.05	10.63	7.13	9.79	4.88	9.29	8.65	8.33
31.25	5.21	5.50	9.88	5.37	8.83	6.27	4.41	6.44	6.04
22.097	4.77	4.83	8.27	4.89	7.20	5.89	5.47	5.34	5.30
15.625	5.13	5.26	6.35	5.35	5.53	5.42	5.55	5.07	5.58
11.049	5.69	5.59	4.81	5.80	4.34	3.86	5.75	4.89	5.89
7.813	5.24	5.50	3.88	5.75	3.66	4.93	3.72	4.61	5.91
5.524	4.86	5.14	3.38	5.32	3.12	4.78	5.39	4.39	5.69
3.906	4.31	4.55	2.98	4.68	2.57	3.39	5.16	4.15	5.08
2.762	3.37	3.85	2.49	3.79	1.89	4.21	3.15	3.64	4.01
1.953	2.46	2.82	1.90	2.73	1.16	3.52	3.92	2.77	2.78
1.381	1.83	1.64	1.34	1.75	0.99	2.15	2.58	1.78	1.35
0.977	1.40	1.27	0.97	1.14	0.97	2.21	1.91	1.31	0.26
0.691	1.13	1.47	0.79	0.89	0.20	1.61	1.37	1.11	0.00
0.488	0.99	0.48	0.54	0.65	0.00	0.94	1.19	0.28	0.00
0.345	0.90	0.00	0.11	0.16	0.00	1.03	0.01	0.00	0.00
0.244	0.79	0.00	0.00	0.00	0.00	0.84	0.00	0.00	0.00
0.173	0.63	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00
0.122	0.48	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.00
0.086	0.30	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00
0.061	0.12	0.00	0.00	0.00	0.00		0.00	0.00	0.00
0.043	0.02	0.00	0.00	0.00	0.00		0.00	0.00	0.00
0.01	0.00		0.00	0.00	0.00		0.00	0.00	
Total	100.00	100.00	100.00	100.00	97.27	100.00	100.00	100.00	100.00
MEAN:	37.97	35.22	42.82	39.66	39.66	54.76	40.77	31.87	38.68
SORTING:	7.69	5.11	4.74	5.895	5.895	4.490	9.764	6.045	5.266
SKEWNESS:	-0.15	-0.26	-0.11	-0.144	-0.144	-0.099	-0.048	-0.218	-0.241
KURTOSIS:	0.98	0.86	1.14	0.867	0.867	1.131	0.785	0.917	0.927
MODE:	Polymodal	Bimodal	Bimodal	Bimodal	Bimodal	Bimodal	Polymodal	Polymodal	Unimodal
Primary Mode	106.7	106.7	53.35	75.45	75.45	75.45	75.45	106.7	75.45

Table 8 Summary of final laser data for the participants for sediment distributed as PS96 with Gradistat output.

Microns	Benchmark Average	PSA_3109	PSA_3210	PSA_3211	PSA_3212	PSA_3213	PSA_3214	PSA_3215
1400								
1000								
707	4.74	0.00	0.09	1.44	1.39	2.50	1.46	4.67
500	3.81	1.85	0.91	4.68	2.77	4.39	1.48	3.96
353.6	4.48	3.23	1.97	7.14	3.48	3.58	3.31	4.32
250	3.97	2.11	2.84	6.29	3.76	2.81	3.31	3.91
176.8	4.06	2.24	4.60	4.59	4.65	4.37	3.32	4.16
125	6.04	5.28	7.78	5.77	6.98	4.93	9.00	6.07
88.39	9.07	9.26	10.51	8.46	9.39	9.52	7.00	9.24
62.5	8.30	10.41	10.42	8.01	9.67	9.14	8.52	8.40
44.19	5.89	8.28	7.95	6.00	7.95	6.50	8.44	5.88
31.25	5.21	5.82	5.57	5.20	6.14	5.08	5.43	5.25
22.097	4.77	5.07	5.15	5.71	5.67	5.77	5.46	4.75
15.625	5.13	5.68	5.92	6.40	5.95	4.69	6.05	5.09
11.049	5.69	6.46	6.59	6.85	5.85	5.27	5.38	5.56
7.813	5.24	6.74	6.62	6.69	5.72	5.85	5.82	5.05
5.524	4.86	6.59	6.45	6.09	5.30	5.35	6.21	4.75
3.906	4.31	6.09	5.65	4.99	4.79	4.45	5.44	4.28
2.762	3.37	5.16	4.40	3.49	4.00	3.55	3.75	3.35
1.953	2.46	3.78	2.79	1.75	2.72	2.85	2.33	2.45
1.381	1.83	2.37	1.46	0.46	1.46	2.20	1.65	1.85
0.977	1.40	1.48	1.01	0.00	1.05	1.57	1.37	1.43
0.691	1.13	1.10	1.03	0.00	1.05	1.16	1.20	1.15
0.488	0.99	0.76	0.29	0.00	0.25	0.98	1.06	1.02
0.345	0.90	0.23	0.00	0.00	0.00	0.91	0.92	0.94
0.244	0.79	0.00	0.00	0.00	0.00	0.84	0.76	0.84
0.173	0.63	0.00	0.00	0.00	0.00	0.70	0.56	0.67
0.122	0.48	0.00	0.00	0.00	0.00	0.54	0.40	0.50
0.086	0.30	0.00	0.00	0.00	0.00	0.35	0.24	0.31
0.061	0.12	0.00	0.00	0.00	0.00	0.14	0.09	0.12
0.043	0.02	0.00	0.00	0.00	0.00	0.02	0.01	0.02
0.01	0.00	0.00	0.00			0.00	0.00	0.00
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
MEAN:	37.97	24.08	29.99	48.67	35.65	31.15	28.47	37.79
SORTING:	7.69	5.198	4.670	5.389	5.263	7.230	6.175	7.772
SKEWNESS:	-0.15	-0.095	-0.175	-0.043	-0.154	-0.159	-0.167	-0.168
KURTOSIS:	0.98	0.867	0.804	0.776	0.894	0.990	0.934	0.984
MODE:	Polymodal	Trimodal	Bimodal	Trimodal	Bimodal	Polymodal	Polymodal	Polymodal
Primary Mode	106.7	75.45	75.45	106.7	106.7	75.45	106.7	150.9

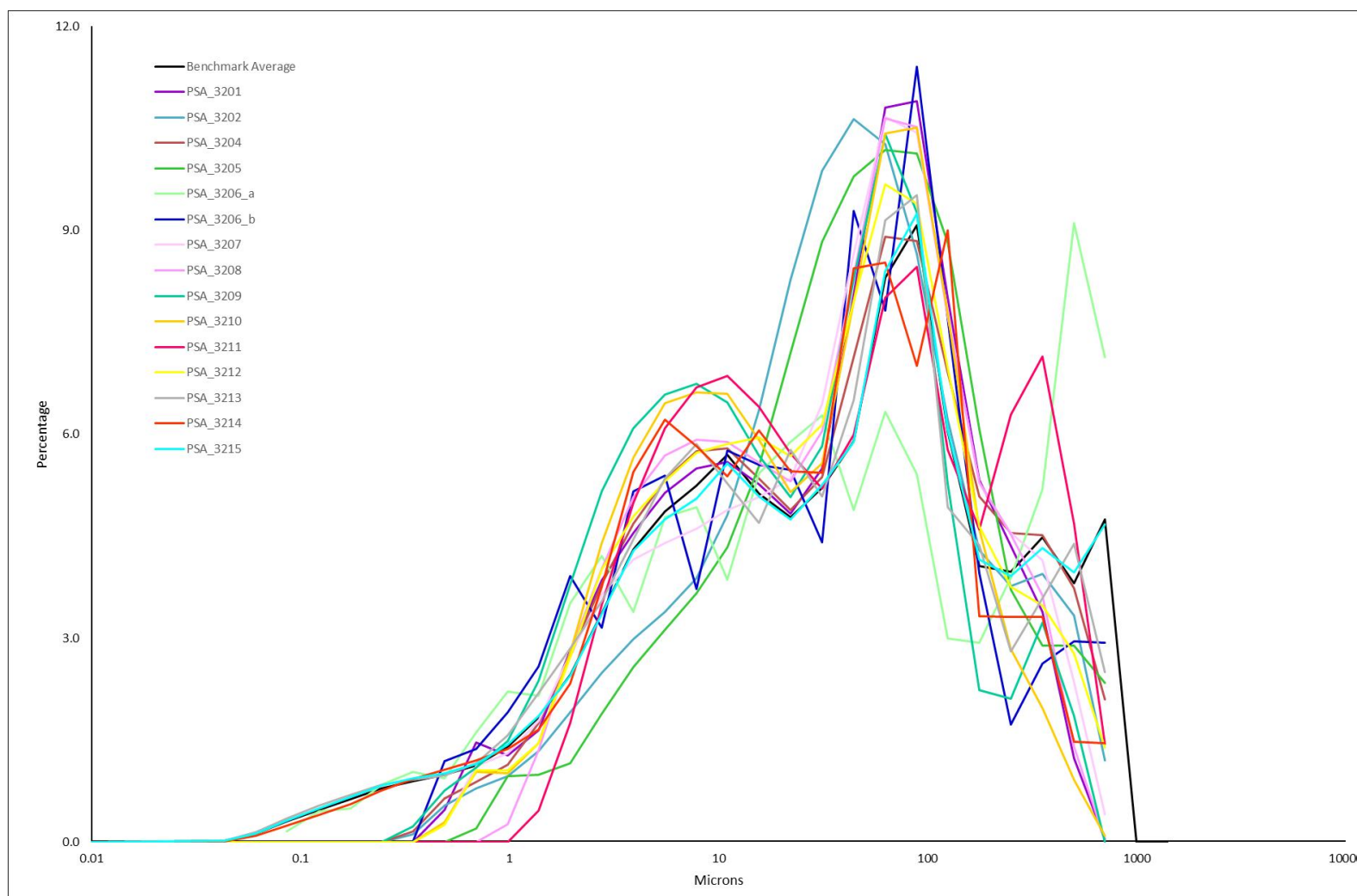


Figure 6 Final laser data (in percentages) provided by each participant and the Benchmark average for sediment distributed as PS96.

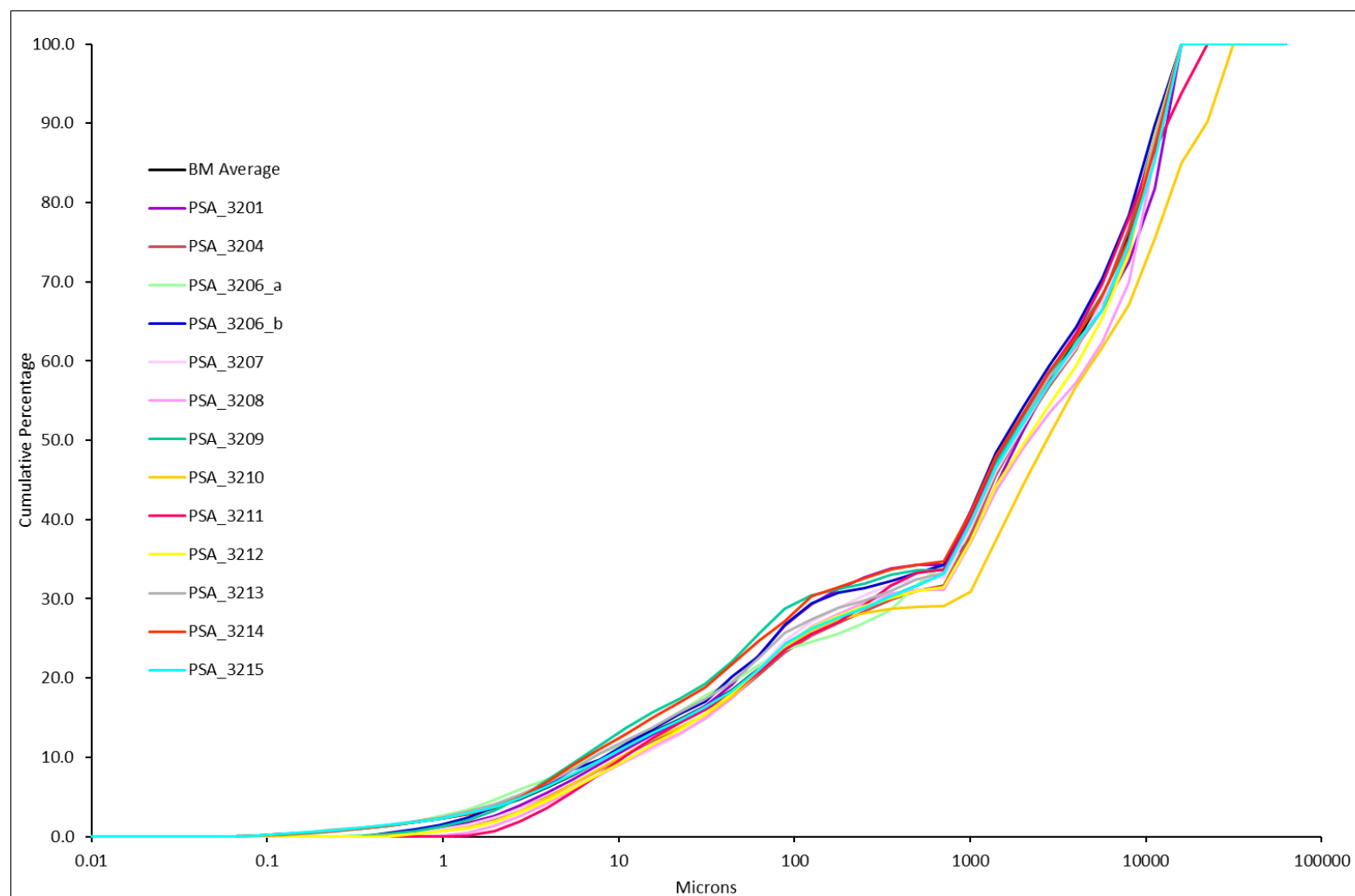


Figure 7 Particle size distribution curves from all participating laboratories and the Benchmark average for sediment distributed as PS96.

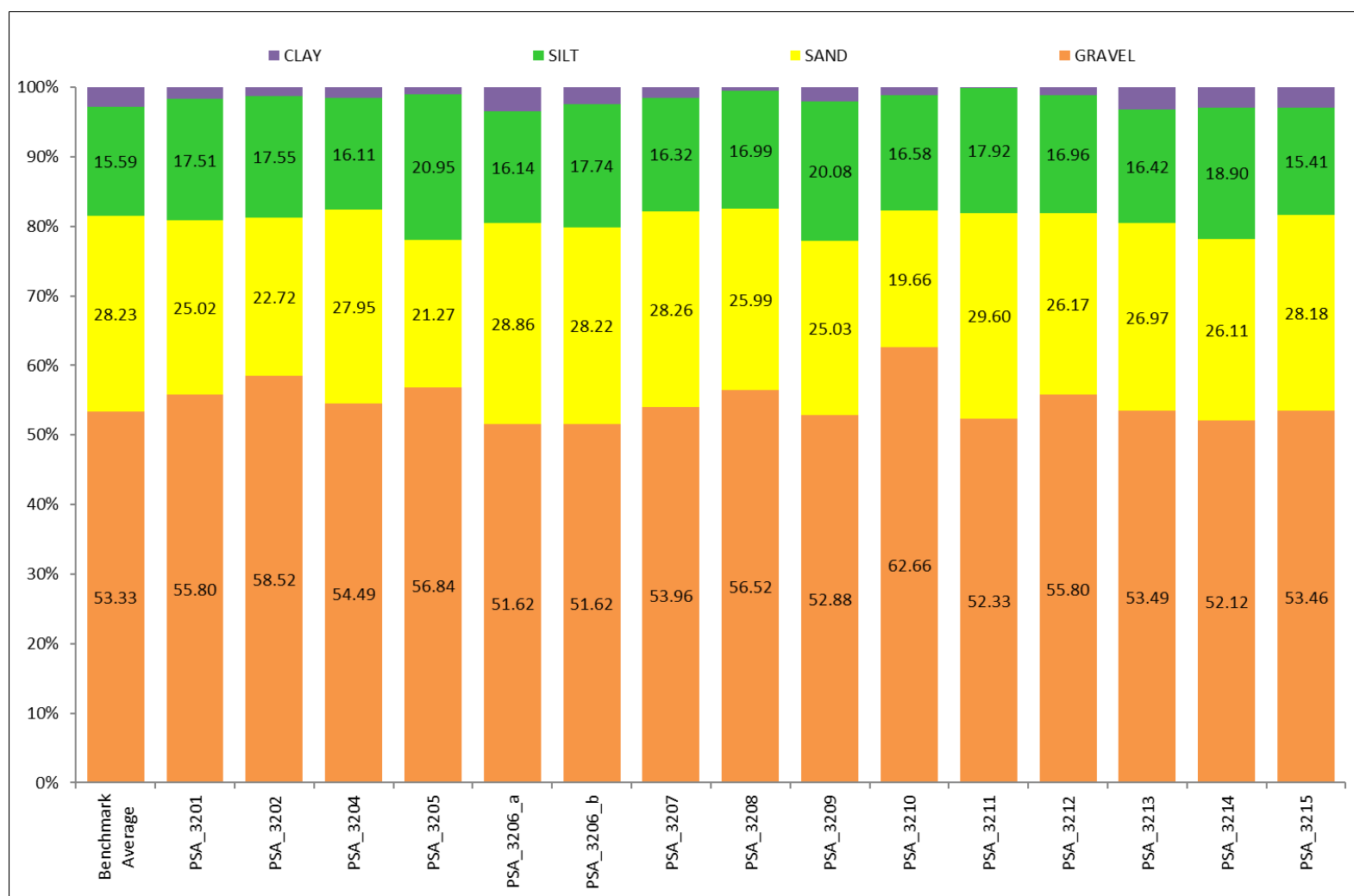
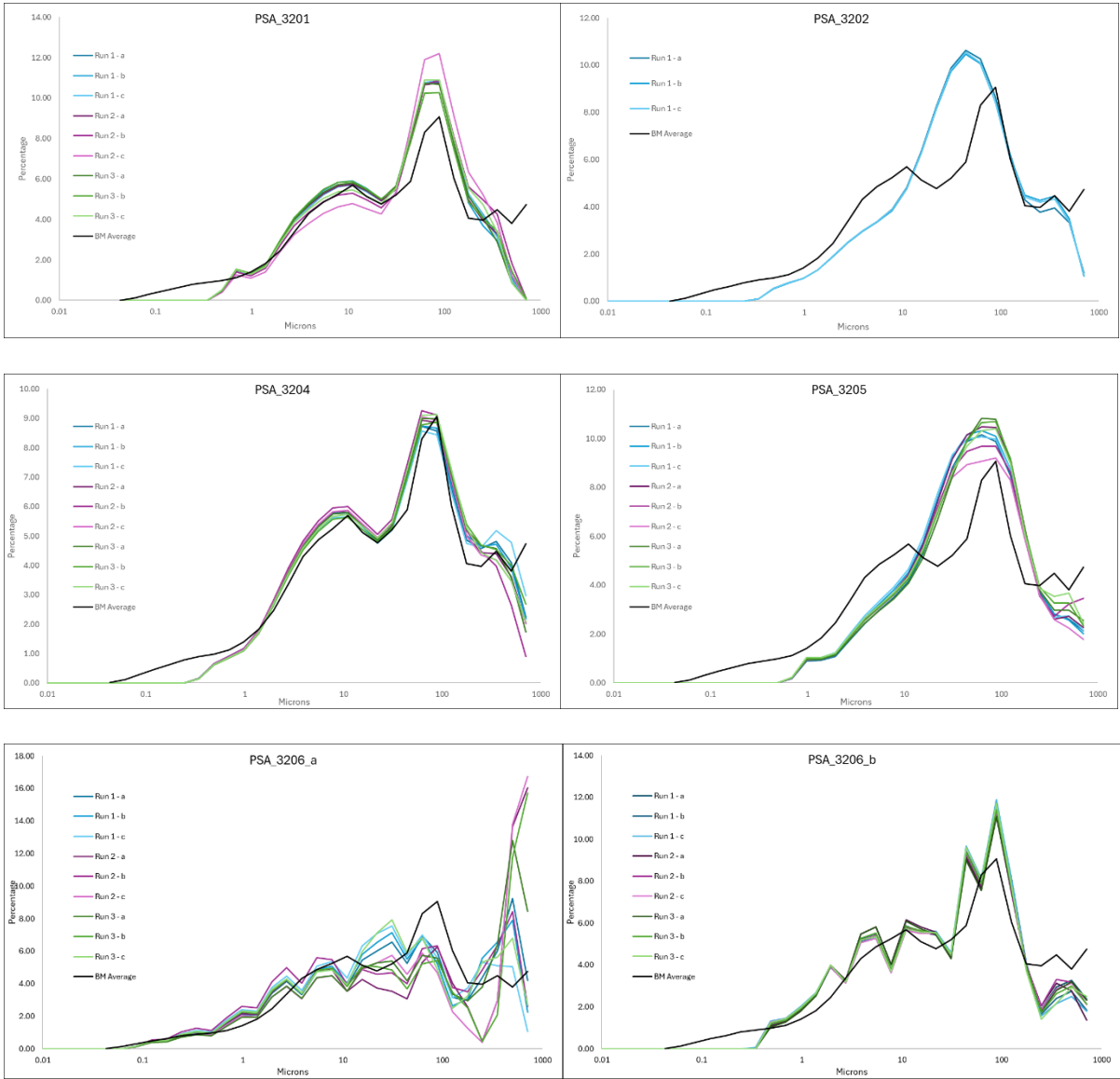


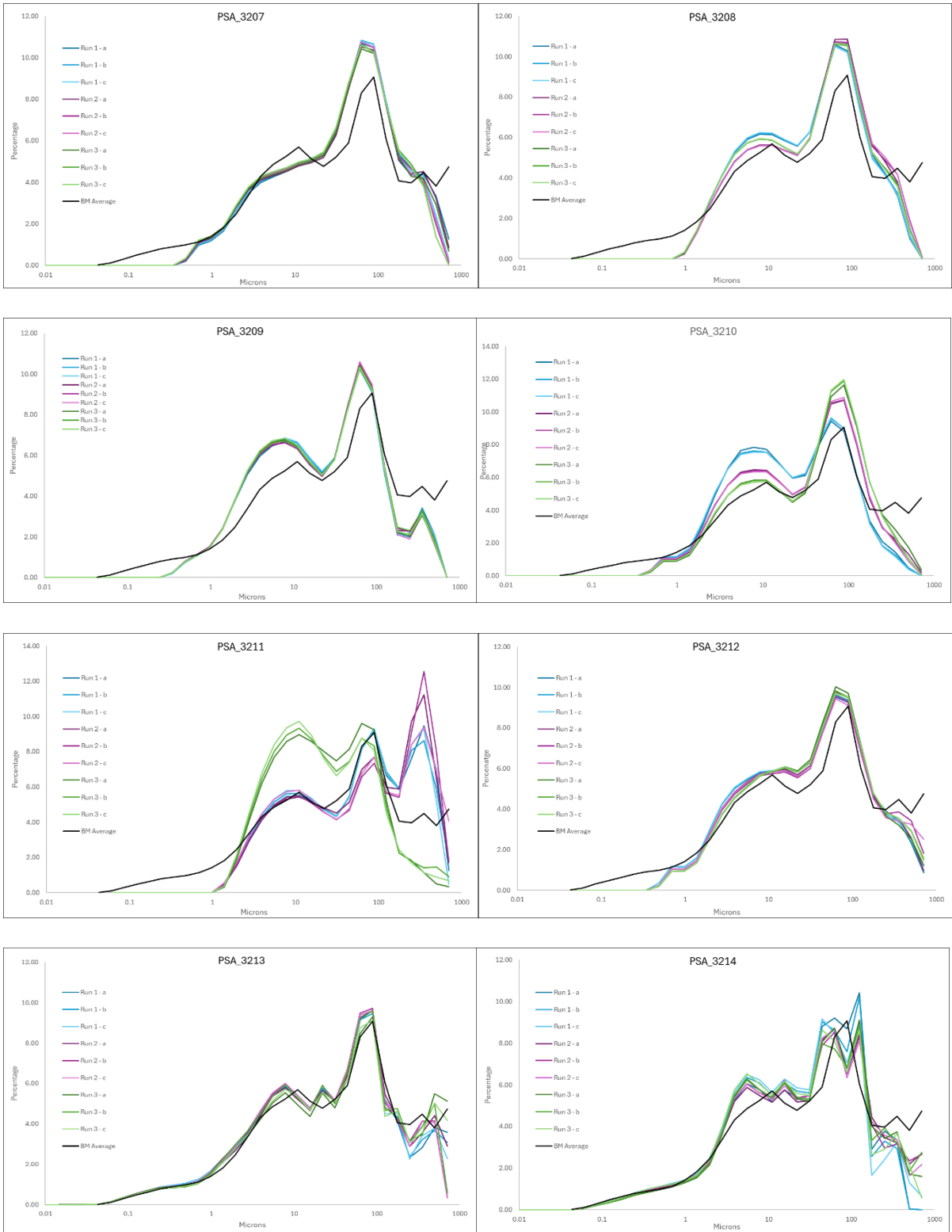
Figure 8 Bar charts showing the percentage gravel, sand, silt and clay recorded by each participating laboratory and the Benchmark average for PS96.

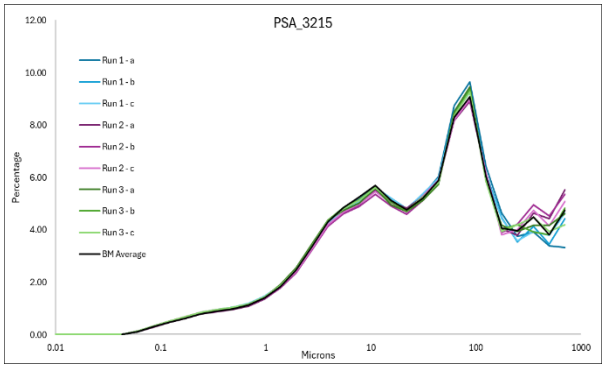
3. APPENDICES

Appendix 1 – Participant Laser Replicate Graphs

Benchmark and Participant laser replicate data can be found in the associated embedded Excel file – PS96 Appendix 1. Graphical outputs for each participant are shown below.







Appendix 2 – Gradistat output of size categories based on final merged data provided by each participant and the Benchmark Average for sediment distributed as PS96.

Data can be found in the associated embedded Excel file – PS96 Appendix 2.

Appendix 3 – Benchmark Lab and Participant Final Merged Data for sediment distributed as PS96.

Data can be found in the associated embedded Excel file – PS96 Appendix 3

Appendix 4 – Individual comparison of participant and Benchmark sieve data for sediment distributed as PS96.

Data can be found in the associated embedded Excel file – PS96 Appendix 4.

