



NMBAQC

NE Atlantic Marine Biological Analytical Quality Control Scheme

Own Sample Module Summary Report

Benthic Invertebrate Component - 2019/20

OS71, 72 and 73

17 March 2021

Author: David Hall, NMBAQCS Project Manager

Contact: nmbaqc@apemltd.co.uk



MODULE / EXERCISE DETAILS

Module:	Own Sample (OS)
Exercises:	OS71, 72 and 73
Data/Sample Request Circulated:	09 September 2019
Sample Submission Deadline:	25 October 2019
Number of Subscribing Laboratories:	39
Number of Own Samples Received:	97

Contents

Table 1. Summary of the performance of participating laboratories in the Own Sample (OS) exercises with respect to the NMBAQC standards.

Table 2. Comparison of the extraction efficiency by the participating laboratories for the major taxonomic groups present in Own Samples (OS71-73).

Table 3. Summary of mis-identified taxa in the Own Sample Module (OS71-73) (erroneous identifications in brackets).

Table 4. Comparison of the estimates of biomass made by the participating laboratories with those made by APEM Ltd. for the major taxonomic groups present in samples OS71-73.

Table 5. Comparison of the overall performance of laboratories in the Own Sample exercises from 1995/96 to 2018/19 (OS01-73).

Table 1. Summary of the performance of participating laboratories in the Own Sample (OS) exercises with respect to the NMBAQC standards.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	Estimation of Taxa							Taxonomic errors			No. Individuals							Estimation of Biomass				Similarity Index			Sample Flag
	OD	AD	Target	Pass / Fail	Missed Taxa	% Missed	Remedial Action	OD	%	Remedial Action	OD	AD	Target	Pass / Fail	Missed Ind.	% Missed	Remedial Action	OD	AD	Target	Pass / Fail	BCSI %	Target	Pass / Fail	NMBAQC Sample Flag
BI_2601 OS71	9	9	8.1 - 9.9	PASS	0	0.00	-	0	0.00	-	29	29	26.1 - 31.9	PASS	0	0.00	-	-	-	-	-	100	90	PASS	PASS - EXCELLENT
BI_2601 OS72	14	14	12.6 - 15.4	PASS	0	0.00	-	0	0.00	-	44	44	39.6 - 48.4	PASS	0	0.00	-	-	-	-	-	100	90	PASS	PASS - EXCELLENT
BI_2601 OS73	6	6	5.4 - 6.6	PASS	0	0.00	-	0	0.00	-	49	48	43.2 - 52.8	PASS	0	0.00	-	-	-	-	-	98.969	90	PASS	PASS - GOOD
BI_2602 OS71	44	46	41.4 - 50.6	PASS	1	2.17	-	1	2.17	-	290	292	262.8 - 321.2	PASS	1	0.34	-	-	-	-	-	99.313	90	PASS	PASS - GOOD
BI_2602 OS72	41	42	37.8 - 46.2	PASS	1	2.38	-	0	0.00	-	261	262	235.8 - 288.2	PASS	1	0.38	-	-	-	-	-	99.809	90	PASS	PASS - GOOD
BI_2602 OS73	48	48	43.2 - 52.8	PASS	0	0.00	-	0	0.00	-	195	196	176.4 - 215.6	PASS	1	0.51	-	-	-	-	-	99.746	90	PASS	PASS - GOOD
BI_2604 OS71	51	58	52.2 - 63.8	FAIL	4	6.90	Review	9	15.52	Reprocess	188	235	211.5 - 258.5	FAIL	41	17.45	Reprocess	-	-	-	-	73.759	90	FAIL	FAIL - BAD
BI_2604 OS72	35	37	33.3 - 40.7	PASS	0	0.00	-	3	8.11	Review	218	252	226.8 - 277.2	FAIL	5	1.98	-	-	-	-	-	83.652	90	FAIL	FAIL - BAD
BI_2604 OS73	46	57	51.3 - 62.7	FAIL	5	8.77	Review	7	12.28	Reprocess	167	207	186.3 - 227.7	FAIL	39	18.84	Reprocess	-	-	-	-	75.332	90	FAIL	FAIL - BAD
BI_2605 OS71	96	96	86.4 - 105.6	PASS	0	0.00	-	1	1.04	-	1011	1023	920.7 - 1125.3	PASS	13	1.27	-	5.7562	6.04	4.832 - 7.248	PASS	98.93	90	PASS	PASS - GOOD
BI_2605 OS72	25	27	24.3 - 29.7	PASS	0	0.00	-	0	0.00	-	500	494	444.6 - 543.4	PASS	0	0.00	-	0.4823	0.5273	0.42184 - 0.63276	PASS	99.4	90	PASS	PASS - GOOD
BI_2605 OS73	169	170	153 - 187	PASS	0	0.00	-	1	0.59	-	5165	4816	4334.4 - 5297.6	PASS	7	0.15	-	3.9947	3.5206	2.81648 - 4.22472	PASS	97.27	90	PASS	PASS - GOOD
BI_2607 OS71	5	5	4.5 - 5.5	PASS	0	0.00	-	0	0.00	-	19	17	15.3 - 18.7	FAIL	0	0.00	-	3.58708	3.2466	2.59728 - 3.89592	PASS	94.737	90	PASS	PASS - ACCEPTABLE
BI_2607 OS72	10	12	10.8 - 13.2	FAIL	1	8.33	Review	1	8.33	Review	48	61	54.9 - 67.1	FAIL	13	21.31	Reprocess	0.2615	0.2423	0.19384 - 0.29076	PASS	77.876	90	FAIL	FAIL - BAD
BI_2607 OS73	27	28	25.2 - 30.8	PASS	2	7.14	-	3	10.71	-	143	148	133.2 - 162.8	PASS	9	6.08	-	48.1557	36.9499	29.55992 - 44.33988	FAIL	93.515	90	PASS	PASS - ACCEPTABLE
BI_2614 OS71	3	3	2.7 - 3.3	PASS	0	0.00	-	0	0.00	-	4	4	3.6 - 4.4	PASS	0	0.00	-	-	-	-	-	100	90	PASS	PASS - EXCELLENT
BI_2614 OS72	8	8	7.2 - 8.8	PASS	0	0.00	-	0	0.00	-	17	17	15.3 - 18.7	PASS	0	0.00	-	-	-	-	-	100	90	PASS	PASS - EXCELLENT
BI_2614 OS73	4	4	3.6 - 4.4	PASS	0	0.00	-	0	0.00	-	13	13	11.7 - 14.3	PASS	0	0.00	-	-	-	-	-	100	90	PASS	PASS - EXCELLENT
BI_2615 OS71	10	10	9 - 11	PASS	0	0.00	-	0	0.00	-	55	55	49.5 - 60.5	PASS	0	0.00	-	4.1659	4.2593	3.40744 - 5.11116	PASS	100	90	PASS	PASS - EXCELLENT
BI_2615 OS72	22	22	19.8 - 24.2	PASS	0	0.00	-	1	4.55	-	96	96	86.4 - 105.6	PASS	0	0.00	-	-	-	-	-	98.958	90	PASS	PASS - GOOD
BI_2615 OS73	7	7	6.3 - 7.7	PASS	0	0.00	-	0	0.00	-	24	24	21.6 - 26.4	PASS	0	0.00	-	0.0307	0.0294	0.02352 - 0.03528	PASS	100	90	PASS	PASS - EXCELLENT

NB. This table details the findings of the audit only. For details of Own Sample remedial action please refer to NMBAQCS Year 26 Annual report, section 2.4.

Table 1. Summary of the performance of participating laboratories in the Own Sample (OS) exercises with respect to the NMBAQC standards.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	Estimation of Taxa							Taxonomic errors			No. Individuals							Estimation of Biomass				Similarity Index			Sample Flag
	OD	AD	Target	Pass / Fail	Missed Taxa	% Missed	Remedial Action	OD	%	Remedial Action	OD	AD	Target	Pass / Fail	Missed Ind.	% Missed	Remedial Action	OD	AD	Target	Pass / Fail	BCSI %	Target	Pass / Fail	NMBAQC Sample Flag
BI_2616 OS71	25	26	23.4 - 28.6	PASS	1	3.85	-	1	3.85	-	128	130	117 - 143	PASS	2	1.54	-	-	-	-	-	97.297	90	PASS	PASS - GOOD
BI_2616 OS72	9	9	8.1 - 9.9	PASS	0	0.00	-	0	0.00	-	43	43	38.7 - 47.3	PASS	0	0.00	-	-	-	-	-	100	90	PASS	PASS - EXCELLENT
BI_2616 OS73	26	25	22.5 - 27.5	PASS	0	0.00	-	4	16.00	-	73	73	65.7 - 80.3	PASS	0	0.00	-	-	-	-	-	93.151	90	PASS	PASS - ACCEPTABLE
BI_2617 OS71	91	91	81.9 - 100.1	PASS	0	0.00	-	5	5.49	-	532	526	473.4 - 578.6	PASS	1	0.19	-	-	-	-	-	97.353	90	PASS	PASS - GOOD
BI_2617 OS72	58	60	54 - 66	PASS	1	1.67	-	6	10.00	-	377	381	342.9 - 419.1	PASS	5	1.31	-	-	-	-	-	96.834	90	PASS	PASS - GOOD
BI_2617 OS73	59	61	54.9 - 67.1	PASS	0	0.00	-	3	4.92	-	412	416	374.4 - 457.6	PASS	5	1.20	-	-	-	-	-	98.551	90	PASS	PASS - GOOD
BI_2618 OS71	20	20	18 - 22	PASS	0	0.00	-	0	0.00	-	61	61	54.9 - 67.1	PASS	0	0.00	-	-	-	-	-	100	90	PASS	PASS - EXCELLENT
BI_2618 OS72	35	35	31.5 - 38.5	PASS	0	0.00	-	0	0.00	-	68	68	61.2 - 74.8	PASS	0	0.00	-	-	-	-	-	100	90	PASS	PASS - EXCELLENT
BI_2618 OS73	18	18	16.2 - 19.8	PASS	0	0.00	-	0	0.00	-	48	48	43.2 - 52.8	PASS	0	0.00	-	-	-	-	-	100	90	PASS	PASS - EXCELLENT
BI_2627 OS71	17	17	15.3 - 18.7	PASS	0	0.00	-	0	0.00	-	24	25	22.5 - 27.5	PASS	0	0.00	-	-	-	-	-	98.113	90	PASS	PASS - GOOD
BI_2627 OS72	9	9	8.1 - 9.9	PASS	0	0.00	-	0	0.00	-	15	15	13.5 - 16.5	PASS	0	0.00	-	-	-	-	-	100	90	PASS	PASS - EXCELLENT
BI_2627 OS73	26	29	26.1 - 31.9	FAIL	1	3.45	-	1	3.45	-	49	51	45.9 - 56.1	PASS	1	1.96	-	-	-	-	-	96.154	90	PASS	PASS - GOOD
BI_2628 OS71	8	8	7.2 - 8.8	PASS	0	0.00	-	0	0.00	-	520	521	468.9 - 573.1	PASS	1	0.19	-	-	-	-	-	99.904	90	PASS	PASS - GOOD
BI_2628 OS72	12	13	11.7 - 14.3	PASS	1	7.69	-	1	7.69	-	129	132	118.8 - 145.2	PASS	3	2.27	-	-	-	-	-	98.084	90	PASS	PASS - GOOD
BI_2628 OS73	21	25	22.5 - 27.5	FAIL	4	16.00	-	1	4.00	-	77	85	76.5 - 93.5	PASS	8	9.41	-	-	-	-	-	94.048	90	PASS	PASS - ACCEPTABLE
BI_2629 OS71	16	16	14.4 - 17.6	PASS	0	0.00	-	0	0.00	-	139	141	126.9 - 155.1	PASS	2	1.42	-	-	-	-	-	99.296	90	PASS	PASS - GOOD
BI_2629 OS72	8	8	7.2 - 8.8	PASS	1	12.50	-	0	0.00	-	669	668	601.2 - 734.8	PASS	1	0.15	-	-	-	-	-	99.776	90	PASS	PASS - GOOD
BI_2629 OS73	8	9	8.1 - 9.9	FAIL	2	22.22	Review	0	0.00	-	31	40	36 - 44	FAIL	9	22.50	Reprocess	-	-	-	-	86.111	90	FAIL	FAIL - POOR
BI_2630 OS71	26	27	24.3 - 29.7	PASS	1	3.70	-	0	0.00	-	128	128	115.2 - 140.8	PASS	1	0.78	-	-	-	-	-	99.237	90	PASS	PASS - GOOD
BI_2630 OS72	26	26	23.4 - 28.6	PASS	0	0.00	-	0	0.00	-	57	55	49.5 - 60.5	PASS	0	0.00	-	-	-	-	-	98.462	90	PASS	PASS - GOOD
BI_2630 OS73	19	20	18 - 22	PASS	1	5.00	-	0	0.00	-	48	47	42.3 - 51.7	PASS	0	0.00	-	-	-	-	-	98	90	PASS	PASS - GOOD
BI_2631 OS71	15	15	13.5 - 16.5	PASS	0	0.00	-	0	0.00	-	85	85	76.5 - 93.5	PASS	0	0.00	-	-	-	-	-	100	90	PASS	PASS - EXCELLENT
BI_2631 OS72	40	40	36 - 44	PASS	0	0.00	-	0	0.00	-	112	113	101.7 - 124.3	PASS	1	0.88	-	-	-	-	-	99.574	90	PASS	PASS - GOOD
BI_2631 OS73	25	25	22.5 - 27.5	PASS	0	0.00	-	0	0.00	-	109	109	98.1 - 119.9	PASS	0	0.00	-	-	-	-	-	100	90	PASS	PASS - EXCELLENT

NB. This table details the findings of the audit only. For details of Own Sample remedial action please refer to NMBAQCS Year 26 Annual report, section 2.4.

Table 1. Summary of the performance of participating laboratories in the Own Sample (OS) exercises with respect to the NMBAQC standards.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	Estimation of Taxa							Taxonomic errors			No. Individuals							Estimation of Biomass				Similarity Index			Sample Flag
	OD	AD	Target	Pass / Fail	Missed Taxa	% Missed	Remedial Action	OD	%	Remedial Action	OD	AD	Target	Pass / Fail	Missed Ind.	% Missed	Remedial Action	OD	AD	Target	Pass / Fail	BCSI %	Target	Pass / Fail	NMBAQC Sample Flag
BI_2632 OS71	5	5	4.5 - 5.5	PASS	0	0.00	-	0	0.00	-	633	636	572.4 - 699.6	PASS	0	0.00	-	-	-	-	-	99.607	90	PASS	PASS - GOOD
BI_2632 OS72	25	27	24.3 - 29.7	PASS	1	3.70	-	3	11.11	-	88	94	84.6 - 103.4	PASS	5	5.32	-	-	-	-	-	93.548	90	PASS	PASS - ACCEPTABLE
BI_2632 OS73	53	54	48.6 - 59.4	PASS	0	0.00	-	3	5.56	-	138	137	123.3 - 150.7	PASS	0	0.00	-	-	-	-	-	96.751	90	PASS	PASS - GOOD
BI_2634 OS71	42	43	38.7 - 47.3	PASS	0	0.00	-	1	2.33	-	266	266	239.4 - 292.6	PASS	0	0.00	-	2.7249	2.4586	1.96688 - 2.95032	PASS	99.638	90	PASS	PASS - GOOD
BI_2634 OS72	63	64	57.6 - 70.4	PASS	1	1.56	-	0	0.00	-	728	728	655.2 - 800.8	PASS	1	0.14	-	4.5363	4.4803	3.58424 - 5.37636	PASS	99.661	90	PASS	PASS - GOOD
BI_2634 OS73	65	65	58.5 - 71.5	PASS	0	0.00	-	1	1.54	-	950	955	859.5 - 1050.5	PASS	5	0.52	-	12.6375	11.52	9.216 - 13.824	PASS	99.635	90	PASS	PASS - GOOD
BI_2635 OS71	49	51	45.9 - 56.1	PASS	1	1.96	-	1	1.96	-	707	709	638.1 - 779.9	PASS	6	0.85	-	134.654	114.585	91.66816 - 137.50224	PASS	98.238	90	PASS	PASS - GOOD
BI_2635 OS72	52	50	45 - 55	PASS	0	0.00	-	1	2.00	-	668	653	587.7 - 718.3	PASS	0	0.00	-	20.4901	18.3022	14.64176 - 21.96264	PASS	98.653	90	PASS	PASS - GOOD
BI_2635 OS73	26	26	23.4 - 28.6	PASS	0	0.00	-	0	0.00	-	23	23	20.7 - 25.3	PASS	0	0.00	-	0.5063	0.3704	0.29632 - 0.44448	FAIL	100	90	PASS	PASS - EXCELLENT
BI_2637 OS71	34	35	31.5 - 38.5	PASS	1	2.86	-	2	5.71	-	203	203	182.7 - 223.3	PASS	0	0.00	-	14.689	12.8237	10.25896 - 15.38844	PASS	98.329	90	PASS	PASS - GOOD
BI_2637 OS72	30	30	27 - 33	PASS	0	0.00	-	1	3.33	-	399	398	358.2 - 437.8	PASS	0	0.00	-	11.071	10.5405	8.4324 - 12.6486	PASS	95.88	90	PASS	PASS - GOOD
BI_2637 OS73	35	35	31.5 - 38.5	PASS	0	0.00	-	1	2.86	-	295	296	266.4 - 325.6	PASS	0	0.00	-	1.8241	1.7417	1.39336 - 2.09004	PASS	95.159	90	PASS	PASS - GOOD
BI_2638 OS71	14	13	11.7 - 14.3	PASS	0	0.00	-	1	7.69	-	66	68	61.2 - 74.8	PASS	2	2.94	-	2.118	1.7988	1.43904 - 2.15856	PASS	96.35	90	PASS	PASS - GOOD
BI_2638 OS72	23	24	21.6 - 26.4	PASS	0	0.00	-	3	12.50	-	151	149	134.1 - 163.9	PASS	2	1.34	-	4.9374	3.7369	2.98952 - 4.48428	FAIL	95.364	90	PASS	PASS - GOOD
BI_2638 OS73	37	40	36 - 44	PASS	2	5.00	-	3	7.50	-	788	782	703.8 - 860.2	PASS	7	0.90	-	2.8539	2.2046	1.76368 - 2.64552	FAIL	97.328	90	PASS	PASS - GOOD
BI_2639 OS71	7	7	6.3 - 7.7	PASS	0	0.00	-	0	0.00	-	17	17	15.3 - 18.7	PASS	0	0.00	-	0.014	0.0143	0.01144 - 0.01716	PASS	100	90	PASS	PASS - EXCELLENT
BI_2639 OS72	16	17	15.3 - 18.7	PASS	1	5.88	-	0	0.00	-	41	42	37.8 - 46.2	PASS	1	2.38	-	0.822	0.8255	0.6604 - 0.9906	PASS	98.795	90	PASS	PASS - GOOD
BI_2639 OS73	5	5	4.5 - 5.5	PASS	0	0.00	-	0	0.00	-	11	11	9.9 - 12.1	PASS	0	0.00	-	7.995	7.9911	6.39288 - 9.58932	PASS	100	90	PASS	PASS - EXCELLENT
BI_2640 OS71	12	13	11.7 - 14.3	PASS	0	0.00	-	1	7.69	-	187	187	168.3 - 205.7	PASS	0	0.00	-	9.9106	9.0103	7.20824 - 10.81236	PASS	99.465	90	PASS	PASS - GOOD
BI_2640 OS72	8	8	7.2 - 8.8	PASS	0	0.00	-	0	0.00	-	197	197	177.3 - 216.7	PASS	0	0.00	-	0.2419	0.2695	0.2156 - 0.3234	PASS	100	90	PASS	PASS - EXCELLENT
BI_2640 OS73	10	9	8.1 - 9.9	FAIL	0	0.00	-	0	0.00	-	162	163	146.7 - 179.3	PASS	0	0.00	-	0.305	0.3079	0.24632 - 0.36948	PASS	99.39	90	PASS	PASS - GOOD

NB. This table details the findings of the audit only. For details of Own Sample remedial action please refer to NMBAQCS Year 26 Annual report, section 2.4.

Table 1. Summary of the performance of participating laboratories in the Own Sample (OS) exercises with respect to the NMBAQC standards.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	Estimation of Taxa							Taxonomic errors			No. Individuals							Estimation of Biomass				Similarity Index			Sample Flag
	OD	AD	Target	Pass / Fail	Missed Taxa	% Missed	Remedial Action	OD	%	Remedial Action	OD	AD	Target	Pass / Fail	Missed Ind.	% Missed	Remedial Action	OD	AD	Target	Pass / Fail	BCSI %	Target	Pass / Fail	NMBAQC Sample Flag
BI_2641 OS71	97	102	91.8 - 112.2	PASS	3	2.94	-	4	3.92	-	1532	1573	1415.7 - 1730.3	PASS	52	3.31	-	6.0149	5.30093	4.240744 - 6.361116	PASS	97.387	90	PASS	PASS - GOOD
BI_2641 OS72	74	76	68.4 - 83.6	PASS	3	3.95	-	1	1.32	-	705	716	644.4 - 787.6	PASS	13	1.82	-	76.0559	74.7598	59.80784 - 89.71176	PASS	98.326	90	PASS	PASS - GOOD
BI_2641 OS73	30	30	27 - 33	PASS	0	0.00	-	2	6.67	-	145	147	132.3 - 161.7	PASS	1	0.68	-	1.2071	1.0403	0.83224 - 1.24836	PASS	98	90	PASS	PASS - GOOD
BI_2642 OS71	14	14	12.6 - 15.4	PASS	0	0.00	-	1	7.14	-	191	191	171.9 - 210.1	PASS	0	0.00	-	-	-	-	-	99.476	90	PASS	PASS - GOOD
BI_2642 OS72	73	78	70.2 - 85.8	PASS	3	3.85	-	2	2.56	-	287	305	274.5 - 335.5	PASS	17	5.57	-	-	-	-	-	96.519	90	PASS	PASS - GOOD
BI_2642 OS73	18	19	17.1 - 20.9	PASS	1	5.26	-	0	0.00	-	64	65	58.5 - 71.5	PASS	1	1.54	-	-	-	-	-	99.281	90	PASS	PASS - GOOD
BI_2643 OS71	16	17	15.3 - 18.7	PASS	1	5.88	-	0	0.00	-	4521	4526	4073.4 - 4978.6	PASS	3	0.07	-	-	-	-	-	99.901	90	PASS	PASS - GOOD
BI_2643 OS72	46	46	41.4 - 50.6	PASS	0	0.00	-	0	0.00	-	2259	2290	2061 - 2519	PASS	2	0.09	-	-	-	-	-	99.012	90	PASS	PASS - GOOD
BI_2643 OS73	37	37	33.3 - 40.7	PASS	0	0.00	-	1	2.70	-	905	902	811.8 - 992.2	PASS	0	0.00	-	-	-	-	-	99.283	90	PASS	PASS - GOOD
BI_2644 OS71	27	27	24.3 - 29.7	PASS	0	0.00	-	0	0.00	-	396	391	351.9 - 430.1	PASS	0	0.00	-	-	-	-	-	99.366	90	PASS	PASS - GOOD
BI_2644 OS72	7	7	6.3 - 7.7	PASS	0	0.00	-	0	0.00	-	10	10	9 - 11	PASS	0	0.00	-	-	-	-	-	100	90	PASS	PASS - EXCELLENT
BI_2644 OS73	12	11	9.9 - 12.1	PASS	0	0.00	-	2	18.18	-	20	20	18 - 22	PASS	0	0.00	-	-	-	-	-	90	90	PASS	PASS - ACCEPTABLE
BI_2645 OS71	8	8	7.2 - 8.8	PASS	0	0.00	-	0	0.00	-	25	25	22.5 - 27.5	PASS	0	0.00	-	-	-	-	-	100	90	PASS	PASS - EXCELLENT
BI_2645 OS72	2	2	1.8 - 2.2	PASS	0	0.00	-	0	0.00	-	3	3	2.7 - 3.3	PASS	0	0.00	-	-	-	-	-	100	90	PASS	PASS - EXCELLENT
BI_2645 OS73	4	4	3.6 - 4.4	PASS	0	0.00	-	0	0.00	-	33	33	29.7 - 36.3	PASS	0	0.00	-	0.8168	0.6968	0.55744 - 0.83616	PASS	100	90	PASS	PASS - EXCELLENT
BI_2646 OS71	18	21	18.9 - 23.1	FAIL	3	14.29	-	2	9.52	-	314	315	283.5 - 346.5	PASS	9	2.86	-	0.8688	0.7167	0.57336 - 0.86004	FAIL	94.2	90	PASS	PASS - ACCEPTABLE

NB. This table details the findings of the audit only. For details of Own Sample remedial action please refer to NMBAQCS Year 26 Annual report, section 2.4.

Table 1. Summary of the performance of participating laboratories in the Own Sample (OS) exercises with respect to the NMBAQC standards.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	Estimation of Taxa							Taxonomic errors			No. Individuals							Estimation of Biomass				Similarity Index			Sample Flag
	OD	AD	Target	Pass / Fail	Missed Taxa	% Missed	Remedial Action	OD	%	Remedial Action	OD	AD	Target	Pass / Fail	Missed Ind.	% Missed	Remedial Action	OD	AD	Target	Pass / Fail	BCSI %	Target	Pass / Fail	NMBAQC Sample Flag
BI_2649 OS71	19	20	18 - 22	PASS	1	5.00	-	0	0.00	-	278	278	250.2 - 305.8	PASS	5	1.80	-	1.538	0.98	0.784 - 1.176	FAIL	98.378	90	PASS	PASS - GOOD
BI_2649 OS72	9	8	7.2 - 8.8	FAIL	0	0.00	-	0	0.00	-	16	14	12.6 - 15.4	FAIL	0	0.00	-	0.0996	0.1567	0.12536 - 0.18804	FAIL	90.909	90	PASS	PASS - ACCEPTABLE
BI_2649 OS73	11	12	10.8 - 13.2	PASS	1	8.33	-	0	0.00	-	75	76	68.4 - 83.6	PASS	1	1.32	-	-	-	-	-	98.684	90	PASS	PASS - GOOD
BI_2650 OS71	9	9	8.1 - 9.9	PASS	0	0.00	-	0	0.00	-	81	82	73.8 - 90.2	PASS	0	0.00	-	-	-	-	-	99.387	90	PASS	PASS - GOOD
BI_2650 OS72	10	10	9 - 11	PASS	0	0.00	-	0	0.00	-	27	25	22.5 - 27.5	PASS	0	0.00	-	-	-	-	-	98.361	90	PASS	PASS - GOOD
BI_2650 OS73	12	12	10.8 - 13.2	PASS	0	0.00	-	0	0.00	-	124	125	112.5 - 137.5	PASS	0	0.00	-	-	-	-	-	99.598	90	PASS	PASS - GOOD
BI_2652 OS71	56	60	54 - 66	PASS	2	3.33	-	2	3.33	-	414	419	377.1 - 460.9	PASS	5	1.19	-	-	-	-	-	98.208	90	PASS	PASS - GOOD
BI_2652 OS72	71	73	65.7 - 80.3	PASS	0	0.00	-	1	1.37	-	893	894	804.6 - 983.4	PASS	4	0.45	-	-	-	-	-	99.443	90	PASS	PASS - GOOD
BI_2652 OS73	74	74	66.6 - 81.4	PASS	1	1.35	-	2	2.70	-	689	698	628.2 - 767.8	PASS	2	0.29	-	-	-	-	-	98.854	90	PASS	PASS - GOOD
BI_2653 OS71	7	7	6.3 - 7.7	PASS	0	0.00	-	0	0.00	-	10	10	9 - 11	PASS	0	0.00	-	-	-	-	-	100	90	PASS	PASS - EXCELLENT
BI_2653 OS72	12	12	10.8 - 13.2	PASS	0	0.00	-	0	0.00	-	387	387	348.3 - 425.7	PASS	0	0.00	-	-	-	-	-	99.225	90	PASS	PASS - GOOD
BI_2653 OS73	14	14	12.6 - 15.4	PASS	0	0.00	-	0	0.00	-	75	75	67.5 - 82.5	PASS	0	0.00	-	-	-	-	-	100	90	PASS	PASS - EXCELLENT
BI_2654 OS71	22	32	28.8 - 35.2	FAIL	9	28.13	Reprocess	11	34.38	Reprocess	27	32	28.8 - 35.2	FAIL	5	15.63	Reprocess	-	-	-	-	49.231	90	FAIL	FAIL - BAD
BI_2654 OS72	16	21	18.9 - 23.1	FAIL	3	14.29	Reprocess	3	14.29	Reprocess	53	67	60.3 - 73.7	FAIL	14	20.90	Reprocess	-	-	-	-	80.992	90	FAIL	FAIL - BAD
BI_2654 OS73	26	46	41.4 - 50.6	FAIL	21	45.65	Reprocess	2	4.35	-	57	81	72.9 - 89.1	FAIL	29	35.80	Reprocess	-	-	-	-	74.126	90	FAIL	FAIL - BAD

Key:

OD = Original Data (participant), AD = Auditor Data, Target for Estimation of Taxa and No. Individuals is +/- 10% AD, Target for Estimation of Biomass is +/- 20% AD, BCSI = Bray Curtis Similarity Index.

Table 2. Comparison of the extraction efficiency by the participating laboratories for the major taxonomic groups present in Own Samples (OS71-73).

LabCode		Nemertea	Polychaeta	Oligochaeta	Chelicerata	Crustacea	Mollusca	Echinodermata	Other	Overall	
BI_2601	OS71	AD count	-	21	-	-	5	1	2	-	29
		Missed	-	0	-	-	0	0	0	-	0
		%missed	-	0.0	-	-	0.0	0.0	0.0	-	0.0
	OS72	AD count	1	26	-	-	7	9	1	-	44
		Missed	0	0	-	-	0	0	0	-	0
		%missed	0.0	0.0	-	-	0.0	0.0	0.0	-	0.0
	OS73	AD count	1	29	-	-	18	-	-	-	48
		Missed	0	0	-	-	0	-	-	-	0
		%missed	0.0	0.0	-	-	0.0	-	-	-	0.0
BI_2602	OS71	AD count	6	203	5	-	11	36	23	8	292
		Missed	0	0	0	-	0	0	0	1	1
		%missed	0.0	0.0	0.0	-	0.0	0.0	0.0	12.5	0.3
	OS72	AD count	4	144	-	-	26	18	61	9	262
		Missed	0	0	-	-	0	1	0	0	1
		%missed	0.0	0.0	-	-	0.0	5.6	0.0	0.0	0.4
	OS73	AD count	2	139	-	-	20	17	17	1	196
		Missed	0	1	-	-	0	0	0	0	1
		%missed	0.0	0.7	-	-	0.0	0.0	0.0	0.0	0.5
BI_2604	OS71	AD count	7	144	13	-	2	15	36	18	235
		Missed	0	16	13	-	0	0	0	12	41
		%missed	0.0	11.1	100.0	-	0.0	0.0	0.0	66.7	17.4
	OS72	AD count	15	121	5	-	6	98	1	6	252
		Missed	1	2	2	-	0	0	0	0	5
		%missed	6.7	1.7	40.0	-	0.0	0.0	0.0	0.0	2.0
	OS73	AD count	7	124	3	-	6	44	9	14	207
		Missed	0	14	1	-	1	19	1	3	39
		%missed	0.0	11.3	33.3	-	16.7	43.2	11.1	21.4	18.8
BI_2605	OS71	AD count	7	508	5	-	43	421	1	38	1023
		Missed	0	10	0.0	-	1	2	0	0	13
		%missed	0.0	2.0	0.0	-	2.3	0.5	0.0	0.0	1.3
	OS72	AD count	-	340	24	-	9	113	-	8	494
		Missed	-	0	0	-	0	0	-	0	0
		%missed	-	0.0	0.0	-	0.0	0.0	-	0.0	0.0
	OS73	AD count	11	453	11	8	2255	1598	38	442	4816
		Missed	0	0	0	0	0	2	0	5	7
		%missed	0.0	0.0	0.0	0.0	0.0	0.1	0.0	1.1	0.1
BI_2607	OS71	AD count	-	12	1	-	-	4	-	-	17
		Missed	-	0	0.0	-	-	0	-	-	0
		%missed	-	0.0	0.0	-	-	0.0	-	-	0.0
	OS72	AD count	-	11	6	-	-	43	-	1	61
		Missed	-	0	0	-	-	13	-	0	13
		%missed	-	0.0	0.0	-	-	30.2	-	0.0	21.3
	OS73	AD count	-	70	4	-	2	64	4	4	148
		Missed	-	5	0	-	0	4	0	0	9
		%missed	-	7.1	0.0	-	0.0	6.3	0.0	0.0	6.1
BI_2614	OS71	AD count	-	2	-	-	1	-	-	1	4
		Missed	-	0	-	-	0	-	-	0	0
		%missed	-	0.0	-	-	0.0	-	-	0.0	0.0
	OS72	AD count	1	2	-	-	11	-	3	-	17
		Missed	0	0	-	-	0	-	0	-	0
		%missed	0.0	0.0	-	-	0.0	-	0.0	-	0.0
	OS73	AD count	-	10	-	-	2	-	1	-	13
		Missed	-	0	-	-	0	-	0	-	0
		%missed	-	0.0	-	-	0.0	-	0.0	-	0.0
BI_2615	OS71	AD count	-	35	7	-	8	5	-	-	55
		Missed	-	0	0	-	0	0	-	-	0
		%missed	-	0.0	0.0	-	0.0	0.0	-	-	0.0
	OS72	AD count	4	68	1	-	15	5	-	3	96
		Missed	0	0	0	-	0	0	-	0	0
		%missed	0.0	0.0	0.0	-	0.0	0.0	-	0.0	0.0
	OS73	AD count	-	12	-	-	1	11	-	-	24
		Missed	-	0	-	-	0	0	-	-	0
		%missed	-	0.0	-	-	0.0	0.0	-	-	0.0

Table 2. Comparison of the extraction efficiency by the participating laboratories for the major taxonomic groups present in Own Samples (OS71-73).

LabCode		Nemertea	Polychaeta	Oligochaeta	Chelicerata	Crustacea	Mollusca	Echinodermata	Other	Overall	
BI_2616	OS71	AD count	1	51	-	-	24	52	2	-	130
		Missed	0	0	-	-	0	2	0	-	2
		%missed	0.0	0.0	-	-	0.0	3.8	0.0	-	1.5
	OS72	AD count	-	1	-	-	7	29	6	-	43
		Missed	-	0	-	-	0	0	0	-	0
		%missed	-	0.0	-	-	0.0	0.0	0.0	-	0.0
	OS73	AD count	-	12	-	-	7	51	3	-	73
		Missed	-	0	-	-	0	0	0	-	0
		%missed	-	0.0	-	-	0.0	0.0	0.0	-	0.0
BI_2617	OS71	AD count	18	246	-	-	41	182	27	12	526
		Missed	0	0	-	-	1	0	0	0	1
		%missed	0.0	0.0	-	-	2.4	0.0	0.0	0.0	0.2
	OS72	AD count	12	167	-	-	15	169	16	2	381
		Missed	0	0	-	-	0	5	0	0	5
		%missed	0.0	0.0	-	-	0.0	3.0	0.0	0.0	1.3
	OS73	AD count	4	202	-	-	27	176	5	2	416
		Missed	0	0	-	-	0	4	1	0	5
		%missed	0.0	0.0	-	-	0.0	2.3	20.0	0.0	1.2
BI_2618	OS71	AD count	3	10	-	-	10	2	-	36	61
		Missed	0	0	-	-	0	0	-	0	0
		%missed	0.0	0.0	-	-	0.0	0.0	-	0.0	0.0
	OS72	AD count	5	32	-	-	17	-	3	11	68
		Missed	0	0	-	-	0	-	0.0	0	0
		%missed	0.0	0.0	-	-	0.0	-	0.0	0.0	0.0
	OS73	AD count	1	13	-	-	30	3	1	-	48
		Missed	0	0	-	-	0	0	0	-	0
		%missed	0.0	0.0	-	-	0.0	0.0	0.0	-	0.0
BI_2627	OS71	AD count	-	9	-	-	4	7	4	1	25
		Missed	-	0	-	-	0	0	0	0	0
		%missed	-	0.0	-	-	0.0	0.0	0.0	0.0	0.0
	OS72	AD count	-	13	-	-	-	2	-	-	15
		Missed	-	0	-	-	-	0	-	-	0
		%missed	-	0.0	-	-	-	0.0	-	-	0.0
	OS73	AD count	3	18	-	-	9	14	1	5	50
		Missed	0	1	-	-	0	0	0	0	1
		%missed	0.0	5.6	-	-	0.0	0.0	0.0	0.0	2.0
BI_2628	OS71	AD count	-	32	12	-	476	1	-	-	521
		Missed	-	0	1	-	0	0	-	-	1
		%missed	-	0.0	8.3	-	0.0	0.0	-	-	0.2
	OS72	AD count	-	77	25	-	4	26	-	-	132
		Missed	-	1	0	-	0	2	-	-	3
		%missed	-	1.3	0.0	-	0.0	7.7	-	-	2.3
	OS73	AD count	1	66	6	-	1	10	-	1	85
		Missed	0	5	0	-	0	2	-	1	8
		%missed	0.0	7.6	0.0	-	0.0	20.0	-	100.0	9.4
BI_2629	OS71	AD count	-	81	33	-	11	15	-	1	141
		Missed	-	0	0	-	0	2	-	0	2
		%missed	-	0.0	0.0	-	0.0	13.3	-	0.0	1.4
	OS72	AD count	-	37	8	-	-	623	-	-	668
		Missed	-	1	0	-	-	0	-	-	1
		%missed	-	2.7	0.0	-	-	0.0	-	-	0.1
	OS73	AD count	1	25	4	-	2	8	-	-	40
		Missed	0	2	0	-	0	7	-	-	9
		%missed	0.0	8.0	0.0	-	0.0	87.5	-	-	22.5
BI_2630	OS71	AD count	-	103	3	-	17	4	-	1	128
		Missed	-	1	0	-	0	0	-	0	1
		%missed	-	1.0	-	-	0.0	0.0	-	-	0.8
	OS72	AD count	-	17	-	1	1	31	5	-	55
		Missed	-	0	-	0	0	0	0	-	0
		%missed	-	0.0	-	0.0	0.0	0.0	0.0	-	0.0
	OS73	AD count	-	28	-	-	7	9	-	3	47
		Missed	-	0	-	-	0	0	-	0	0
		%missed	-	0.0	-	-	0.0	0.0	-	0.0	0.0

Table 2. Comparison of the extraction efficiency by the participating laboratories for the major taxonomic groups present in Own Samples (OS71-73).

LabCode		Nemertea	Polychaeta	Oligochaeta	Chelicerata	Crustacea	Mollusca	Echinodermata	Other	Overall	
BI_2631	OS71	AD count	1	45	-	-	39	-	-	85	
		Missed	0	0	-	-	-	-	-	0	
		%missed	0.0	0.0	-	-	0.0	-	-	0.0	
	OS72	AD count	4	41	-	-	8	30	3	27	113
		Missed	0	1	-	-	0	0	0	0	1
		%missed	0.0	2.4	-	-	0.0	0.0	0.0	0.0	0.9
	OS73	AD count	5	60	-	-	1	40	-	3	109
		Missed	0	0	-	-	0	0	-	0	0
		%missed	0.0	0.0	-	-	0.0	0.0	-	0.0	0.0
BI_2632	OS71	AD count	-	527	1	-	-	-	108	636	
		Missed	-	0	0	-	-	-	-	0	0
		%missed	-	0.0	0.0	-	-	-	-	0.0	0.0
	OS72	AD count	2	42	-	-	41	6	-	3	94
		Missed	0	0	-	-	4	1	-	0	5
		%missed	0.0	0.0	-	-	9.8	16.7	-	0.0	5.3
	OS73	AD count	2	61	-	-	47	21	3	3	137
		Missed	0	0	-	-	0	0	0	0	0
		%missed	0.0	0.0	-	-	0.0	0.0	0.0	0.0	0.0
BI_2634	OS71	AD count	22	51	-	-	52	134	5	-	264
		Missed	0	0	-	-	0	0	0	-	0
		%missed	0.0	0.0	-	-	0.0	0.0	0.0	-	0.0
	OS72	AD count	8	345	218	-	20	109	8	20	728
		Missed	1	0	0	-	0	0	0	0	1
		%missed	12.5	0.0	-	-	0.0	0.0	0.0	0.0	0.1
	OS73	AD count	21	533	127	-	85	115	20	54	955
		Missed	0	4	0	-	0	1	0	0	5
		%missed	0.0	0.8	0.0	-	0.0	0.9	0.0	0.0	0.5
BI_2635	OS71	AD count	-	343	46	-	34	196	25	65	709
		Missed	-	1	0	-	0	2	2	1	6
		%missed	-	0.3	0.0	-	0.0	1.0	8.0	1.5	0.8
	OS72	AD count	13	545	25	-	28	39	2	1	653
		Missed	0	0	0	-	0	0	0	0	0
		%missed	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
	OS73	AD count	1	12	-	-	4	3	-	3	23
		Missed	0	0	-	-	0	0	-	0	0
		%missed	0.0	0.0	-	-	0.0	0.0	-	0.0	0.0
BI_2637	OS71	AD count	4	122	-	-	42	33	1	1	203
		Missed	0	0	-	-	0	0	0	0	0
		%missed	0.0	0.0	-	-	0.0	0.0	0.0	0.0	0.0
	OS72	AD count	10	105	-	-	10	139	95	39	398
		Missed	0	0	-	-	0	0	0	0	0
		%missed	0.0	0.0	-	-	0.0	0.0	0.0	0.0	0.0
	OS73	AD count	-	79	-	-	128	84	3	2	296
		Missed	-	0	-	-	0	0	0	0	0
		%missed	-	0.0	-	-	0.0	0.0	0.0	0.0	0.0
BI_2638	OS71	AD count	-	31	-	-	1	35	1	-	68
		Missed	-	0	-	-	0	2	0	-	2
		%missed	-	0.0	-	-	0.0	5.7	0.0	-	2.9
	OS72	AD count	-	84	-	-	25	31	-	9	149
		Missed	-	0	-	-	0	2	-	0	2
		%missed	-	0.0	-	-	0.0	6.5	-	0.0	1.3
	OS73	AD count	7	681	12	-	21	61	-	-	782
		Missed	0	0	0	-	3	4	-	-	7
		%missed	0.0	0.0	0.0	-	14.3	6.6	-	-	0.9
BI_2639	OS71	AD count	6	3	-	-	2	-	-	6	17
		Missed	0	0	-	-	0	-	-	0	0
		%missed	0.0	0.0	-	-	0.0	-	-	0.0	0.0
	OS72	AD count	-	29	-	-	6	5	-	2	42
		Missed	-	0	-	-	0	1	-	0	1
		%missed	-	0.0	-	-	0.0	20.0	-	0.0	2.4
	OS73	AD count	-	2	-	-	1	-	-	8	11
		Missed	-	0	-	-	0	-	-	0	0
		%missed	-	0.0	-	-	0.0	-	-	0.0	0.0

Table 2. Comparison of the extraction efficiency by the participating laboratories for the major taxonomic groups present in Own Samples (OS71-73).

LabCode			Nemertea	Polychaeta	Oligochaeta	Chelicerata	Crustacea	Mollusca	Echinodermata	Other	Overall	
BI_2640	OS71	AD count	-	23	51	-	101	12	-	-	187	
		Missed	-	0	0	-	0	0	-	-	0	
		%missed	-	0.0	0.0	-	0.0	0.0	-	-	0.0	
	OS72	AD count	-	128	-	-	66	2	-	-	1	197
		Missed	-	0	-	-	0	0	-	0	0	0
		%missed	-	0.0	-	-	0.0	0.0	-	0.0	0.0	0.0
	OS73	AD count	-	32	92	-	15	24	-	-	-	163
		Missed	-	0	0	-	0	0	-	-	-	0
		%missed	-	0.0	0.0	-	0.0	0.0	-	-	-	0.0
BI_2641	OS71	AD count	4	1186	79	-	147	133	2	22	1573	
		Missed	0	44	1	-	4	3	0	0	52	
		%missed	0.0	3.7	1.3	-	2.7	2.3	0.0	0.0	3.3	
	OS72	AD count	-	581	14	1	32	81	2	5	716	
		Missed	-	5	2	0	0	6	0	0	13	
		%missed	-	0.9	14.3	0.0	0.0	7.4	0.0	0.0	1.8	
	OS73	AD count	1	98	18	-	12	16	-	2	147	
		Missed	0	0	0	-	0	1	-	0	1	
		%missed	0.0	0.0	0.0	-	0.0	6.3	-	0.0	0.7	
BI_2642	OS71	AD count	-	66	89	-	35	1	-	-	191	
		Missed	-	0	0	-	0	0	-	-	0	
		%missed	-	0.0	0.0	-	0.0	0.0	-	-	0.0	
	OS72	AD count	5	135	8	20	45	18	1	73	305	
		Missed	0	9	0	2	1	1	0.0	4	17	
		%missed	0.0	6.7	0.0	10.0	2.2	5.6	0.0	5.5	5.6	
	OS73	AD count	-	22	5	-	8	6	-	24	65	
		Missed	-	0	0	-	1	0	-	0	1	
		%missed	-	0.0	0.0	-	12.5	0.0	-	0.0	1.5	
BI_2643	OS71	AD count	-	4442	55	1	7	18	-	3	4526	
		Missed	-	0	0	1	0	2	-	0	3	
		%missed	-	0.0	0.0	100.0	0.0	11.1	-	0.0	0.1	
	OS72	AD count	-	1668	189	-	1	188	-	244	2290	
		Missed	-	0	0	-	0	1	-	1	2	
		%missed	-	0.0	0.0	-	0.0	0.5	-	0.4	0.1	
	OS73	AD count	15	34	-	-	28	603	212	10	902	
		Missed	0	0	-	-	0	0	0	0	0	
		%missed	0.0	0.0	-	-	0.0	0.0	0.0	0.0	0.0	
BI_2644	OS71	AD count	1	100	6	-	14	5	-	265	391	
		Missed	0	0	0	-	0	0	-	0	0	
		%missed	0.0	0.0	0.0	-	0.0	0.0	-	0.0	0.0	
	OS72	AD count	-	9	-	-	-	1	-	-	10	
		Missed	-	0	-	-	-	0	-	-	0	
		%missed	-	0.0	-	-	-	0.0	-	-	0.0	
	OS73	AD count	-	8	-	-	7	2	3	-	20	
		Missed	-	0	-	-	0	0	0	-	0	
		%missed	-	0.0	-	-	0.0	0.0	0.0	-	0.0	
BI_2645	OS71	AD count	-	6	8	-	3	4	-	4	25	
		Missed	-	0	0	-	0	0	-	0	0	
		%missed	-	0.0	0.0	-	0.0	0.0	-	0.0	0.0	
	OS72	AD count	-	-	-	-	3	-	-	-	3	
		Missed	-	-	-	-	0	-	-	-	0	
		%missed	-	-	-	-	0.0	-	-	-	0.0	
	OS73	AD count	-	27	-	-	-	6	-	-	33	
		Missed	-	0	-	-	-	0	-	-	0	
		%missed	-	0.0	-	-	-	0.0	-	-	0.0	
BI_2646	OS71	AD count	-	-	196	1	17	26	-	75	315	
		Missed	-	-	3	0	2	4	-	0	9	
		%missed	-	-	1.5	0.0	11.8	15.4	-	0.0	2.9	

Table 2. Comparison of the extraction efficiency by the participating laboratories for the major taxonomic groups present in Own Samples (OS71-73).

LabCode			Nemertea	Polychaeta	Oligochaeta	Chelicerata	Crustacea	Mollusca	Echinodermata	Other	Overall
BI_2649	OS71	AD count	-	236	14	-	17	3	-	7	277
		Missed	-	3	0	-	0	1	-	0	4
		%missed	-	1.3	0.0	-	0.0	33.3	-	0.0	1.4
	OS72	AD count	-	5	-	-	1	8	-	-	14
		Missed	-	0	-	-	0	0	-	-	0
		%missed	-	0.0	-	-	0.0	0.0	-	-	0.0
	OS73	AD count	-	28	-	-	1	47	-	-	76
		Missed	-	1	-	-	0	0	-	-	1
		%missed	-	3.6	-	-	0.0	0.0	-	-	1.3
BI_2650	OS71	AD count	1	70	4	-	6	-	-	1	82
		Missed	0	0	0	-	0	-	-	0	0
		%missed	0.0	0.0	0.0	-	0.0	-	-	0.0	0.0
	OS72	AD count	-	3	6	-	16	-	-	-	25
		Missed	-	0	0	-	0	-	-	-	0
		%missed	-	0.0	0.0	-	0.0	-	-	-	0.0
	OS73	AD count	-	6	108	-	3	8	-	-	125
		Missed	-	0	0	-	0	0	-	-	0
		%missed	-	0.0	0.0	-	0.0	0.0	-	-	0.0
BI_2652	OS71	AD count	-	130	-	-	15	55	195	24	419
		Missed	-	0	-	-	0	1	3	1	5
		%missed	-	0.0	-	-	0.0	1.8	1.5	4.2	1.2
	OS72	AD count	1	232	-	-	26	64	524	47	894
		Missed	0	1	-	-	0	0	0	3	4
		%missed	0.0	0.4	-	-	0.0	0.0	0.0	6.4	0.4
	OS73	AD count	1	171	-	-	30	73	403	20	698
		Missed	1	0	-	-	0	0	0	1	2
		%missed	100.0	0.0	-	-	0.0	0.0	0.0	5.0	0.3
BI_2653	OS71	AD count	-	1	-	-	1	7	-	1	10
		Missed	-	0	-	-	0	0	-	0	0
		%missed	-	0.0	-	-	0.0	0.0	-	0.0	0.0
	OS72	AD count	1	95	6	-	1	121	-	163	387
		Missed	0	0	0	-	0	0	-	0	0
		%missed	0.0	0.0	0.0	-	0.0	0.0	-	0.0	0.0
	OS73	AD count	3	38	7	-	12	15	-	-	75
		Missed	0	0	0	-	0	0	-	-	0
		%missed	0.0	0.0	0.0	-	0.0	0.0	-	-	0.0
BI_2654	OS71	AD count	-	12	-	-	15	2	-	3	32
		Missed	-	3	-	-	1	0	-	1	5
		%missed	-	25.0	-	-	6.7	0.0	-	33.3	15.6
	OS72	AD count	-	10	-	-	40	14	-	3	67
		Missed	-	0	-	-	4	10	-	0	14
		%missed	-	0.0	-	-	10.0	71.4	-	0.0	20.9
	OS73	AD count	-	24	1	-	27	18	3	8	81
		Missed	-	13	1	-	2	7	0	6	29
		%missed	-	54.2	100.0	-	7.4	38.9	0.0	75.0	35.8

Key: AD = Audit Data
Missed = numbers of individuals missed in residue sorting
% Missed = Percentage missed in residue sorting

Table 3. Summary of mis-identified taxa in the Own Sample Module (OS71 - 73) (erroneous identifications in brackets).

LabCode / Smp.	Taxonomic Errors	Major Taxonomic Group					
		Polychaeta	Oligochaeta	Crustacea	Mollusca	Echinodermata	Other
BI_2601	OS71	0	-	-	-	-	-
	OS72	0	-	-	-	-	-
	OS73	0	-	-	-	-	-
BI_2602	OS71	1	<i>Thelepus davehalli (Thelepus cincinnatus)</i>	-	-	-	-
	OS72	0	-	-	-	-	-
	OS73	0	-	-	-	-	-
BI_2604	OS71	9	<i>Nephtys kersivalensis (Nephtys cirrosa)</i>	-	-	<i>Thyasira biplicata (Thyasira flexuosa)</i>	Edwardsiidae (Holothuroidea)
			<i>Nephtys incisa (Nephtys hystrix)</i>	-	-	<i>Tellimya ferruginosa (Kurtiella bidentata)</i>	
			<i>Leiochone (Capitella capitata)</i>	-	-	<i>Dosinia lupinus (Dosinia exoleta)</i>	
			<i>Anobothrus gracilis (Ampharete finmarchica)</i>	-	-		
			<i>Tharyx killariensis (Monticellina dorsobranchialis)</i>	-	-		
	OS72	3	<i>Leitoscoloplos mammosus (Scoloplos armiger)</i>	-	-		<i>Thysanocardia procera (Golfingia)</i>
			<i>Praxillella affinis (Euclymene oerstedii)</i>	-	-		
	OS73	7	<i>Lumbrineris cingulata</i> agg. (<i>Hilbigneris gracilis</i>)	-	<i>Leucothoe hillborgi (Leucothoe incisa)</i>	<i>Thyasira biplicata (Thyasira flexuosa)</i>	<i>Thysanocardia procera (Golfingia)</i>
			<i>Rhodine (Microclymene tricirrata)</i>	-	-	<i>Mysia undata (Arctica islandica)</i>	
<i>Praxillella affinis (Euclymene oerstedii)</i>			-	-			
BI_2605	OS71	1	-	-	-	-	-
	OS72	0	-	-	-	-	-
	OS73	1	-	-	-	-	<i>Kirchenpaueria pinnata (Plumularia setacea)</i>
BI_2607	OS71	0	-	-	-	-	-
	OS72	1	-	-	-	-	-
	OS73	3	<i>Polydora cornuta (Spio)</i> <i>Polydora cornuta (Spiophanes bombyx)</i> <i>Alitta succinea (Eunereis longissima)</i>	-	-	-	<i>Anthoathecata (Anthozoa)</i>
BI_2614	OS71	0	-	-	-	-	-
	OS72	0	-	-	-	-	-
	OS73	0	-	-	-	-	-
BI_2615	OS71	0	-	-	-	-	-
	OS72	1	<i>Chaetozone vivipara (Tharyx Type A)</i>	-	-	-	-
	OS73	0	-	-	-	-	-
BI_2616	OS71	1	-	-	<i>Philocheirus trispinosus (Crangon juv)</i>	-	-
	OS72	0	-	-	-	-	-
	OS73	4	<i>Lumbrineris cingulata</i> agg. (<i>Hilbigneris gracilis</i>)	-	<i>Diastylis bradyi (Diastylis cornuta)</i>	<i>Retusa umbilicata (Cylchna cylindracea)</i>	
			-	-	<i>Fabulina fabula (Macomangulus tenuis)</i>		
BI_2617	OS71	5	<i>Parexagone hebes (Exogone verugera)</i>	-	-	<i>Liostomia clavula (Hemiacilis ventrosa?)</i>	
			<i>Apistobranchnus tenuis (Apistobranchnus tullbergi)</i>	-	-	<i>Pulsellum (Antalis)</i>	
			<i>Prionospio cf. dubia (Prionospio steenstrupi)</i>	-	-		
			<i>Aricidea catherinae (Aricidea (Acmira) laubieri)</i>	-	-	<i>Scutopus ventralineatus (Chaetoderma nitidulum)</i>	
			<i>Apistobranchnus tenuis (Apistobranchnus tullbergi)</i>	-	-	<i>Pulsellum (Antalis)</i>	
	OS72	6	<i>Tharyx killariensis (Chaetozone setosa)</i>	-	-	<i>Euspira fusca (Euspira montagui?)</i>	
			<i>Glycide nordmanni (Goniada maculata)</i>	-	-		
			<i>Lumbrineris cingulata</i> agg. (<i>Abyssiniae hibernica</i>)	-	-		
			<i>Ampharete lindstroemi (Ampharete falcata?)</i>	-	-		
OS73	3	-	-	-			
		-	-	-			
		-	-	-			
BI_2618	OS71	0	-	-	-	-	-
	OS72	0	-	-	-	-	-
	OS73	0	-	-	-	-	-
BI_2627	OS71	0	-	-	-	-	-
	OS72	0	-	-	-	-	-
	OS73	1	<i>Rullieriereis ancornunezi (Eunereis longissima)</i>	-	-	-	-
BI_2628	OS71	0	-	-	-	-	-
	OS72	1	-	-	-	<i>Ruditapes philippinarum juv. (Ruditapes decussatus)</i>	
	OS73	1	-	-	-	<i>Ruditapes philippinarum juv. (Timoclea ovata juv.)</i>	
BI_2629	OS71	0	-	-	-	-	-
	OS72	0	-	-	-	-	-
	OS73	0	-	-	-	-	-
BI_2630	OS71	0	-	-	-	-	-
	OS72	0	-	-	-	-	-
	OS73	0	-	-	-	-	-
BI_2631	OS71	0	-	-	-	-	-
	OS72	0	-	-	-	-	-
	OS73	0	-	-	-	-	-
BI_2632	OS71	0	-	-	-	-	-
	OS72	3	<i>Eumida bahusiensis (Eumida sanguinea)</i>	-	<i>Cheirocratus sundevallii (Cheirocratus intermedius)</i>		
			<i>Euclymene oerstedii</i> agg. (<i>Praxillella affinis</i>)	-	-		
OS73	3	<i>Phyllodoce longipes (Phyllodoce groenlandica)</i> <i>Spio decorata (Spio armati)</i>	-	-	<i>Abra nitida (Abra alba)</i>		
BI_2634	OS71	1	-	-	-	-	-
	OS72	0	-	-	-	-	-
	OS73	1	<i>Glycera lapidum</i> agg. (<i>Glycera tridactyla</i>)	-	-	<i>Abra prismatica (Abra alba)</i>	
BI_2635	OS71	1	<i>Phaloe inornata (Phaloe baltica)</i>	-	-	-	-
	OS72	1	-	-	-	-	<i>Sertulariella (Abietinaria abietina)</i>
	OS73	0	-	-	-	-	-
BI_2637	OS71	2	<i>Magelona johnstoni (Magelona filiformis)</i>	-	-	<i>Clausinella fasciata juv. (Chamelea striatula)</i>	
	OS72	1	-	-	-	<i>Abra nitida (Abra alba)</i>	
	OS73	1	<i>Spio decorata (Spio symphyta)</i>	-	-	-	-

Table 3. Summary of mis-identified taxa in the Own Sample Module (OS71 - 73) (erroneous identifications in brackets).

LabCode / Smp.	Taxonomic Errors	Major Taxonomic Group					
		Polychaeta	Oligochaeta	Crustacea	Mollusca	Echinodermata	Other
BL_2638	OS71 1	-	-	-	-	<i>Amphiura chiajei (Acrocnida brachiata)</i>	
	OS72 3	<i>Magelona alleni (Magelona filiformis)</i>	-	-	<i>Macra stultorum (Spisula elliptica)</i> <i>Arcopagia crassa juv. (Fabulina fabula)</i>		
	OS73 3	-	<i>Tubificoides amplivasatus (Tubificoides pseudogaster Aggregate)</i> <i>Limnodriloides (Tubificoides pseudogaster Aggregate)</i>	-	<i>Nucula nitidosa (Nucula nucleus)</i>		
BL_2639	OS71 0	-	-	-	-		
	OS72 0	-	-	-	-		
	OS73 0	-	-	-	-		
BL_2640	OS71 1	-	-	<i>Allomelita pellucida (Melita palmata)</i>	-		
	OS72 0	-	-	-	-		
	OS73 0	-	-	-	-		
BL_2641	OS71 4	<i>Audouinella (CHLOROPHYTA)</i> <i>Pseudomystides spinachia (Pseudomystides limbata)</i> <i>Sabellidae (Terebellomorpha)</i>	-	-	<i>Megastomia conoidea (Odostomia)</i>		
	OS72 1	<i>Eusyllis blomstrandii (Odontosyllis fulgurans)</i>	-	-	-		
	OS73 2	<i>Pisione remota (Cossura)</i>	-	-	-		CILIOPHORA (<i>Loxosomella</i>)
	OS71 1	<i>Sphaerodoropsis baltica (Sphaerodoridium)</i>	-	-	-		
BL_2642	OS72 2	<i>Chaetozone christiei (Tharyx)</i>	-	-	-		<i>Ascidia mentula (Ascidiella)</i>
	OS73 0	-	-	-	-		
	OS71 0	-	-	-	-		
BL_2643	OS72 0	-	-	-	-		
	OS73 1	-	-	-	-		<i>Phialella quadrata (Lovenella clausa)</i>
	OS71 0	-	-	-	-		
BL_2644	OS72 0	-	-	-	-		
	OS73 2	<i>Nephtys cirrosa (Nephtys hombergii)</i> <i>Scolecopsis bonnierii (Scolecopsis scolecopsis squamata)</i>	-	-	-		
	OS71 0	-	-	-	-		
BL_2645	OS72 0	-	-	-	-		
	OS73 0	-	-	-	-		
	OS71 2	-	<i>Potamothrix? (Psammaryctides barbatus)</i>	-	<i>Pisidium amnicum (Musculium transversum?)</i>		
BL_2649	OS71 0	-	-	-	-		
	OS72 0	-	-	-	-		
	OS73 0	-	-	-	-		
BL_2650	OS71 0	-	-	-	-		
	OS72 0	-	-	-	-		
	OS73 0	-	-	-	-		
BL_2652	OS71 2	<i>Pholoe baltica (Pholoe longa)</i>	-	-	<i>Parathyasira equalis (Thyasira flexuosa)</i>		
	OS72 1	<i>Owenia (Myriachele)</i>	-	-	-		
	OS73 2	<i>Polycirrus (Hauchiella tribullata)</i>	-	<i>Pontocrates species A (Synchelidium maculatum)</i>	-		
BL_2653	OS71 0	-	-	-	-		
	OS72 0	-	-	-	-		
	OS73 0	-	-	-	-		
BL_2654	OS71 11	<i>Chaetozone gibber (Chaetozone setosa)</i>	-	<i>Apseudopsis mediterraneus (Apseudopsis apocryphus)</i>	<i>Papillicardium papillosum (Parvicardium sp.)</i>		
		<i>Caulleriella (Cirratulus cirratus)</i>	-	<i>Abludomelita (Echinogammarus sp.)</i>	-		
		<i>Pista cristata (Pista unibranchia)</i>	-	<i>Aoridae female/Megamphopus cornutus (Isaoidae)</i>	-		
		<i>Prionospio fallax (Prionospio steenstrupi)</i>	-	<i>Leptocheirus pectinatus (Lembos sp.)</i>	-		
		<i>Protodorvillea kefersteini (Schistomeringos rudolphi)</i>	-	<i>Parvipalpus capillaceus (Pseudolirius kroeyeri)</i>	-		
	OS72 3	-	-	<i>Tanaissus (Leptochelia savignyi)</i>	<i>Tellinidae juv. (Spisula subtruncata)</i>		
		-	-	<i>Bathyporeia phaiophthalma (Bathyporeia sunniva)</i>	-		
OS73 2	<i>Protodorvillea kefersteini (Schistomeringos rudolphi)</i>	-	<i>Apocorophium acutum (Corophium sp.)</i>	-			
TOTAL	107	53	3	15	26	1	9
% Error		50	3	14	24	1	8

NB: % errors for taxonomic groups are percentages of the total errors generated by each taxon (not percentages of errors within each taxon)

Table 4. Comparison of the estimates of biomass made by the participating laboratories with those made by APEM Ltd. for the major taxonomic groups present in samples OS71-OS73.

		OS71								
LabCode		Nemertea	Polychaeta	Oligochaeta	Chelicerata	Crustacea	Mollusca	Echinodermata	Other	Overall
BI_2605	OD	0.1072	4.1690	0.0003	-	0.0044	1.1460	0.0367	0.2926	5.7562
	AD	0.1068	4.4866	0.0003	-	0.0052	1.1379	0.0340	0.2692	6.0400
	%diff.	0.37	-7.62	0.00	-	-18.18	0.71	7.36	8.00	-4.93
BI_2607	OD	-	0.1166	0.0002	-	0.0047	3.4656	-	-	3.5871
	AD	-	0.0730	0.0001	-	0.0029	3.1706	-	-	3.2466
	%diff.	-	37.39	50.00	-	38.30	8.51	-	-	9.4923
BI_2615	OD	-	0.0240	0.0007	-	0.0344	4.1068	-	-	4.1659
	AD	-	0.0203	0.0005	-	0.0278	4.2107	-	-	4.2593
	%diff.	-	15.4167	28.5714	-	19.1860	-2.5300	-	-	-2.24
BI_2634	OD	0.0081	0.3516	-	-	0.0236	0.0411	2.3005	-	2.7249
	AD	0.0064	0.2184	-	-	0.0189	0.0397	2.1752	-	2.4586
	%diff.	20.99	37.88	-	-	19.92	3.41	5.45	-	9.77
BI_2635	OD	-	41.2650	0.0057	-	0.0130	90.5566	2.8131	0.0008	134.6542
	AD	-	29.3812	0.0047	-	0.0110	82.6352	2.5523	0.0008	114.5852
	%diff.	-	28.7987	17.5439	-	15.3846	8.7475	9.2709	0.0000	14.90
BI_2637	OD	0.0043	0.5386	-	-	0.0100	10.5795	3.5509	0.0057	14.6890
	AD	0.0019	0.5017	-	-	0.0077	9.2788	3.0266	0.0070	12.8237
	%diff.	55.81	6.85	-	-	23.00	12.29	14.77	-22.81	12.70
BI_2638	OD	-	0.8171	-	-	0.0001	1.1034	0.1973	0.0001	2.1180
	AD	-	0.5414	-	-	0.0001	1.0783	0.1786	0.0004	1.7988
	%diff.	-	33.74	-	-	0.00	2.27	9.48	-300.00	15.07
BI_2639	OD	0.0002	0.0132	-	-	0.0001	-	-	0.0005	0.0140
	AD	0.0001	0.0139	-	-	0.0001	-	-	0.0002	0.0143
	%diff.	50.00	-5.30	-	-	0.00	-	-	60.00	-2.14
BI_2640	OD	-	0.0502	0.0132	-	0.0458	9.8014	-	-	9.9106
	AD	-	0.0436	0.0113	-	0.0400	8.9154	-	-	9.0103
	%diff.	-	13.15	14.39	-	12.66	9.04	-	-	9.08
BI_2641	OD	0.0035	3.1423	0.0286	-	0.0526	2.7520	0.0033	0.0326	6.0149
	AD	0.0021	2.5682	0.0224	-	0.0453	2.6342	0.0021	0.0266	5.3009
	%diff.	40.00	18.27	21.68	-	13.88	4.28	36.36	18.40	11.87
BI_2645	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2646	OD	-	-	0.6180	0.0005	0.0033	0.0725	-	0.1745	0.8688
	AD	-	-	0.5004	0.0004	0.0026	0.0639	-	0.1494	0.7167
	%diff.	-	-	19.03	20.00	21.21	11.86	-	14.38	17.51
BI_2649	OD	-	1.0571	0.0023	-	0.0333	0.2149	-	0.0068	1.3144
	AD	-	0.5046	0.0018	-	0.0170	0.4141	-	0.0054	0.9429
	%diff.	-	52.27	21.74	-	48.95	-92.69	-	20.59	28.26

Key: OD - Own data, participating laboratory
AD - Audit data
"-" - No data.

Table 4. Comparison of the estimates of biomass made by the participating laboratories with those made by APEM Ltd. for the major taxonomic groups present in samples OS71-OS73.

LabCode		OS72							Overall	
		Nemertea	Polychaeta	Oligochaeta	Chelicerata	Crustacea	Mollusca	Echinodermata		Other
BI_2605	OD	-	0.3677	0.0015	-	0.0102	0.1028	-	0.0001	0.4823
	AD	-	0.4105	0.0013	-	0.0110	0.1044	-	0.0001	0.5273
	%diff.	-	-11.64	13.33	-	-7.84	-1.56	-	0.00	-9.33
BI_2607	OD	0.0015	0.0022	0.0009	-	-	0.2569	-	-	0.2615
	AD	0.0005	0.0010	0.0004	-	-	0.2404	-	-	0.2423
	%diff.	66.67	54.55	55.56	-	-	6.42	-	-	7.3423
BI_2615	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2634	OD	0.0315	1.1311	0.0374	-	0.0355	0.9427	2.3316	0.0265	4.5363
	AD	0.0218	0.8951	0.0329	-	0.0316	0.9263	2.5514	0.0212	4.4803
	%diff.	30.79	20.86	12.03	-	10.99	1.74	-9.43	20.00	1.23
BI_2635	OD	0.0364	12.0942	0.0054	-	0.0105	3.6273	4.7112	0.0051	20.4901
	AD	0.0241	10.0551	0.0033	-	0.0095	3.5534	4.6540	0.0028	18.3022
	%diff.	33.7912	16.8601	38.8889	-	9.5238	2.0373	1.2141	45.0980	10.68
BI_2637	OD	0.0046	1.5214	-	-	0.0051	0.9643	7.4312	1.1444	11.0710
	AD	0.0038	0.9626	-	-	0.0014	0.8462	7.6359	1.0906	10.5405
	%diff.	17.39	36.73	-	-	72.55	12.25	-2.75	4.70	4.79
BI_2638	OD	-	0.1011	-	-	0.0075	4.6775	0.0549	0.0964	4.9374
	AD	-	0.0524	-	-	0.0045	3.5855	0.0527	0.0418	3.7369
	%diff.	-	48.17	-	-	40.00	23.35	4.01	56.64	24.31
BI_2639	OD	-	0.1611	-	-	0.0025	0.0009	-	0.6575	0.8220
	AD	-	0.1666	-	-	0.0017	0.0007	-	0.6565	0.8255
	%diff.	-	-3.41	-	-	32.00	22.22	-	0.15	-0.43
BI_2640	OD	-	0.1896	-	-	0.0498	0.0024	-	0.0001	0.2419
	AD	-	0.1667	-	-	0.1004	0.0023	-	0.0001	0.2695
	%diff.	-	12.08	-	-	-101.61	4.17	-	0.00	-11.41
BI_2641	OD	-	15.1909	0.0029	0.0001	0.0100	60.8483	0.0030	0.0007	76.0559
	AD	-	13.9229	0.0019	0.0001	0.0039	60.8274	0.0028	0.0008	74.7598
	%diff.	-	8.35	34.48	0.00	61.00	0.03	6.67	-14.29	1.70
BI_2645	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2646	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2649	OD	-	0.0739	-	-	0.0005	0.0252	-	-	0.0996
	AD	-	0.1312	-	-	0.0003	0.0252	-	-	0.1567
	%diff.	-	-77.54	-	-	40.00	0.00	-	-	-57.33

Key: OD - Own data, participating laboratory
AD - Audit data
"-" - No data.

Table 4. Comparison of the estimates of biomass made by the participating laboratories with those made by APEM Ltd. for the major taxonomic groups present in samples OS71-OS73.

		OS73								
LabCode		Nemertea	Polychaeta	Oligochaeta	Chelicerata	Crustacea	Mollusca	Echinodermata	Other	Overall
BI_2605	OD	0.0145	0.6024	0.0003	0.0021	0.9207	1.2194	1.1349	0.1004	3.9947
	AD	0.0129	0.5142	0.0003	0.0018	0.7554	1.0119	1.1327	0.0914	3.5206
	%diff.	11.03	14.64	0.00	14.29	17.95	17.02	0.19	8.96	11.87
BI_2607	OD	0.0026	1.3331	-	-	0.2832	32.0718	4.5297	9.9354	48.1558
	AD	0.0013	0.8100	-	-	0.2153	26.1688	3.9723	5.7822	36.9499
	%diff.	50.00	39.24	-	-	23.98	18.41	12.31	41.80	23.2701
BI_2615	OD	-	0.0157	-	-	0.0030	0.0120	-	-	0.0307
	AD	-	0.0178	-	-	0.0020	0.0096	-	-	0.0294
	%diff.	-	-13.38	-	-	33.33	20.00	-	-	4.23
BI_2634	OD	0.4848	2.9677	0.0177	-	0.0493	3.4339	4.4163	1.2678	12.6375
	AD	0.3681	2.3751	0.0168	-	0.0471	3.2251	4.4111	1.0767	11.5200
	%diff.	24.07	19.97	5.08	-	4.46	6.08	0.12	15.07	8.84
BI_2635	OD	0.0001	0.0121	-	-	0.4937	0.0003	-	0.0001	0.5063
	AD	0.0001	0.0112	-	-	0.3587	0.0003	-	0.0001	0.3704
	%diff.	0.0000	7.4380	-	-	27.3445	0.0000	-	0.0000	26.84
BI_2637	OD	-	0.1048	-	-	0.0231	1.6469	0.0491	0.0002	1.8241
	AD	-	0.0567	-	-	0.0107	1.6240	0.0501	0.0002	1.7417
	%diff.	-	45.90	-	-	53.68	1.39	-2.04	0.00	4.52
BI_2638	OD	0.0243	2.3737	0.0020	-	0.0013	0.4526	-	-	2.8539
	AD	0.0094	1.8021	0.0027	-	0.0029	0.3875	-	-	2.2046
	%diff.	61.32	24.08	-35.00	-	-123.08	14.38	-	-	22.75
BI_2639	OD	-	0.0042	-	-	0.0041	-	-	7.9867	7.9950
	AD	-	0.0042	-	-	0.0029	-	-	7.9840	7.9911
	%diff.	-	0.00	-	-	29.27	-	-	0.03	0.05
BI_2640	OD	-	0.2738	0.0234	-	0.0049	0.0029	-	-	0.3050
	AD	-	0.2761	0.0237	-	0.0054	0.0027	-	-	0.3079
	%diff.	-	-0.84	-1.28	-	-10.20	6.90	-	-	-0.95
BI_2641	OD	0.0001	1.1255	0.0006	-	0.0741	0.0067	-	0.0001	1.2071
	AD	0.0001	0.9523	0.0004	-	0.0791	0.0083	-	0.0001	1.0403
	%diff.	0.00	15.39	33.33	-	-6.75	-23.88	-	0.00	13.82
BI_2645	OD	-	0.4321	-	-	-	0.3847	-	-	0.8168
	AD	-	0.3296	-	-	-	0.3672	-	-	0.6968
	%diff.	-	23.72	-	-	-	4.55	-	-	14.69
BI_2646	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
BI_2649	OD	-	-	-	-	-	-	-	-	0.0000
	AD	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-

Key: OD - Own data, participating laboratory
 AD - Audit data
 "-" - No data.

Table 5. Comparison of the overall performance of laboratories in the Own Sample exercises from 1995/96 to 2018/19 (OS01-73).

Scheme Year	Exercise	Number of samples		% Pass
		Pass (>90% BCSI)	Fail (<90% BCSI)	
02 (1995/96)	01	14	0	100
03 (1996/97)	02, 03, 04	27	11	71
04 (1997/98)	05, 06, 07	33	7	83
05 (1998/99)	08, 09, 10	30	12	71
06 (1999/00)	11, 12, 13	37	14	73
07 (2000/01)	14, 15, 16	30	15	67
08 (2001/02)*	17, 18, 19	35	10	78
09 (2002/03)*	20, 21, 22	33	11	75
10 (2003/04)*	23, 24, 25	43	8	84
11 (2004/05)*	26, 27, 28	51	3	94
12 (2005/06)*	29, 30, 31	50	4	93
13 (2006/07)*	32, 33, 34	63	6	91
14 (2007/08)*	35, 36, 37	69	12	85
15 (2008/09)*	38, 39, 40	67	24	74
16 (2009/10)*	41, 42, 43	75	18	81
17 (2010/11)*	44, 45, 46	85	14	86
18 (2011/12)*	47, 48, 49	95	4	96
19 (2012/13)*	50, 51, 52	102	6	94
20 (2013/14)*	53, 54, 55	73	29	72
2014/15 (21)*	56, 57, 58	71	22	76
2015/16 (22)*	59, 60, 61	81	15	84
2016/17 (23)*	62, 63, 64	72	12	86
2017/18 (24)*	65, 66, 67	70	9	89
2018/19 (25)*	68, 69, 70	73	16	82
2019/20 (26)*	71, 72, 73	89	8	92
	Total	1468	290	84

* - Own Samples selected from completed data matrices
 BCSI - Bray Curtis Similarity Index (untransformed)