



The National Marine Biological  
Analytical Quality Control Scheme

Own Sample Module  
Summary Report  
OS44, 45 & 46

**David Hall**

[david.hall@unicomarine.com](mailto:david.hall@unicomarine.com)

**3<sup>rd</sup> September 2012**

**Thomson Unicomarine Ltd.**

7 Diamond Centre

Works Road

Letchworth

Hertfordshire

SG6 1LW

[www.unicomarine.com](http://www.unicomarine.com)

**thomson**  
unicomarine

## **MODULE / EXERCISE DETAILS**

**Module: Own Sample (OS)**

**Exercises: OS44, OS45 & OS46**

**Targeted CSEMP Samples: 2009**

**Data/Sample Request Circulated: 07/09/2010**

**Sample Submission Deadline: 26/11/2010**

**Number of Subscribing Laboratories: 37**

**Number of Own Samples Received: 99**

---

### **Contents**

#### **Tables**

- Table 1. Results from the analysis of Own Samples (OS44-OS46) supplied by participating laboratories and re-analysis by Thomson Unicmarine.
- Table 2. Comparison of the efficiency of extraction of fauna by the participating laboratories for the major taxonomic groups present in Own Samples (OS44-OS46).
- Table 3. Summary of mis-identified taxa in the Own Sample module (OS44-46).
- Table 4. Comparison of the estimates of biomass made by the participating laboratories with those made by Thomson Unicmarine Ltd. for the major taxonomic groups present in samples OS44 to OS46.
- Table 5. Summary of the performance of participating laboratories in the Own Sample (OS) exercises with respect to the NMBAQC/CSEMP standards.
- Table 6. Comparison of the overall performance of laboratories in the Own Sample exercises from 1995/96 to 2010/11 with respect to the NMBAQC/CSEMP standards.
- Table 7. Comparison of each laboratory's performance in the Own Sample exercises from Scheme year 2 (1995/96) to Scheme year 17 (2010/11).

Table 1. Results from the analysis of Own Samples (OS44 to OS46) supplied by the participating laboratories and re-analysis by Thomson Unicomarine Ltd.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
LabCode	PL	Number of Taxa			PL	Number of Individuals			NewTaxa	Not extracted			Count Error	Similarity index	Taxonomic Errors	Note
		TUM	Diff (n)	%max		TUM	Diff (n)	%max		Ind	%ind					
LB1701 OS44	34	34	0	0.0	173	176	-3	1.7	0	2	1.1	-1	97.42	2	Biomass to 5 d.p.	
LB1701 OS45	36	35	1	2.8	172	171	1	0.6	0	1	0.6	2	90.96	2	Biomass to 5 d.p.	
LB1701 OS46	32	34	-2	5.9	340	342	-2	0.6	0	0	0.0	-2	97.65	3	Biomass to 5 d.p.	
LB1702 OS44	39	40	-1	2.5	147	148	-1	0.7	1	1	0.7	0	99.67	0	External audit.	
LB1702 OS45	99	99	0	0.0	4920	4923	-3	0.1	0	16	0.3	13	99.77	0	External audit.	
LB1702 OS46	132	132	0	0.0	2009	2022	-13	0.6	0	11	0.5	-2	99.68	0	External audit.	
LB1703 OS44	41	39	2	4.9	214	211	3	1.4	0	0	0.0	3	88.94	5	No biomass data; Remedial action completed 07/09/11	
LB1703 OS45	47	46	1	2.1	113	112	1	0.9	0	0	0.0	1	98.67	1	No biomass data	
LB1703 OS46	58	57	1	1.7	147	149	-2	1.3	0	2	1.3	0	97.30	2	No biomass data	
LB1704 OS44	40	41	-1	2.4	205	209	-4	1.9	1	7	3.3	3	98.80	0	No biomass	
LB1704 OS45	46	48	-2	4.2	191	195	-4	2.1	2	5	2.6	1	97.93	1	No biomass	
LB1704 OS46	40	40	0	0.0	152	161	-9	5.6	1	9	5.6	0	58.79	3	No biomass; Remedial action completed 04/07/12	
LB1705 OS44	53	53	0	0.0	133	132	1	0.8	0	0	0.0	1	96.32	4	-	
LB1705 OS45	6	6	0	0.0	6	6	0	0.0	0	0	0.0	0	83.33	1	Remedial action completed 27/05/12.	
LB1705 OS46	7	8	-1	12.5	10	10	0	0.0	0	0	0.0	0	66.67	2	Remedial action completed 27/05/12.	
LB1706 OS44	48	49	-1	2.0	158	156	2	1.3	0	1	0.6	3	95.09	2	No biomass data.	
LB1706 OS45	35	36	-1	2.8	90	92	-2	2.2	1	2	2.2	0	98.97	0	No biomass data.	
LB1706 OS46	36	37	-1	2.7	116	120	-4	3.3	0	5	4.2	1	94.92	2	No biomass data.	
LB1707 OS44	9	9	0	0.0	24	24	0	0.0	0	0	0.0	0	100.00	0	No biomass data.	
LB1707 OS45	16	16	0	0.0	99	99	0	0.0	0	0	0.0	0	100.00	0	No biomass data.	
LB1707 OS46	19	19	0	0.0	60	60	0	0.0	0	0	0.0	0	100.00	0	No biomass data.	
LB1709 OS44	6	8	-2	25.0	14	17	-3	17.6	2	3	17.6	0	90.32	0	No biomass data	
LB1709 OS45	4	4	0	0.0	11	12	-1	8.3	0	1	8.3	0	95.65	0	Biomass to 5 d.p.	
LB1709 OS46	19	19	0	0.0	91	92	-1	1.1	0	2	2.2	1	98.36	0	No biomass data	
LB1710 OS44	13	12	1	7.7	46	47	-1	2.1	0	7	2.1	0	96.84	1	-	
LB1710 OS45	15	16	-1	6.3	39	40	-1	2.5	1	1	2.5	0	81.48	4	Remedial action completed 06/01/12.	
LB1710 OS46	12	13	-1	7.7	30	32	-2	6.3	0	2	6.3	0	83.33	2	Remedial action completed 06/01/12.	
LB1711 OS44	11	10	1	9.1	83	88	-5	5.7	0	2	2.3	-3	93.57	1	-	
LB1711 OS45	6	6	0	0.0	20	21	-1	4.8	0	1	4.8	0	97.56	0	-	
LB1711 OS46	9	10	-1	10.0	25	26	-1	3.8	1	1	3.8	0	98.04	0	-	
LB1712 OS44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
LB1712 OS45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
LB1712 OS46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
LB1713 OS44	44	44	0	0.0	311	307	4	1.3	0	0	0.0	4	98.38	1	No biomass data	
LB1713 OS45	4	4	0	0.0	84	84	0	0.0	0	0	0.0	0	100.00	0	-	
LB1713 OS46	9	9	0	0.0	9	9	0	0.0	0	0	0.0	0	100.00	0	-	
LB1714 OS44	67	68	-1	1.5	177	192	-15	7.8	1	15	7.8	0	95.44	1	No biomass data	
LB1714 OS45	50	51	-1	2.0	140	159	-19	11.9	0	16	10.1	-3	89.77	4	No biomass data; Remedial action recommended.	
LB1714 OS46	55	56	-1	1.8	170	176	-6	3.4	0	3	1.7	-3	97.71	1	No biomass data	
LB1715 OS44	29	29	0	0.0	354	354	0	0.0	0	0	0.0	0	100.00	0	No biomass data	
LB1715 OS45	18	18	0	0.0	191	191	0	0.0	0	0	0.0	0	100.00	0	No biomass data	
LB1715 OS46	14	14	0	0.0	518	518	0	0.0	0	0	0.0	0	100.00	0	No biomass data	
LB1717 OS44	106	108	-2	1.9	951	954	-3	0.3	0	5	0.5	2	97.27	4	No biomass data	
LB1717 OS45	9	9	0	0.0	21	21	0	0.0	0	0	0.0	0	100.00	0	-	
LB1717 OS46	30	31	-1	3.2	157	157	0	0.0	0	0	0.0	0	99.08	1	-	
LB1718 OS44	3	3	0	0.0	3	3	0	0.0	0	0	0.0	0	100.00	0	No biomass data	
LB1718 OS45	4	4	0	0.0	409	417	-8	1.9	0	0	0.0	-8	99.03	0	No biomass data	
LB1718 OS46	16	16	0	0.0	29	29	0	0.0	0	0	0.0	0	90.00	3	No biomass data	
LB1719 OS44	8	8	0	0.0	1010	1014	-4	0.4	0	0	0.0	-4	99.80	0	No biomass data	
LB1719 OS45	20	21	-1	4.8	29	31	-2	6.5	0	2	6.5	0	96.67	1	No biomass data	
LB1719 OS46	13	13	0	0.0	54	54	0	0.0	0	0	0.0	0	98.15	1	No biomass data	
LB1720 OS44	7	6	1	14.3	44	42	2	4.5	0	1	2.4	3	65.12	5	No biomass data; Remedial action recommended.	
LB1720 OS45	32	39	-7	17.9	179	181	-2	1.1	1	7	3.9	5	35.36	19	No biomass data; Remedial action recommended.	
LB1720 OS46	25	25	0	0.0	72	71	1	1.4	0	0	0.0	1	43.36	12	No biomass data; Remedial action recommended.	
LB1722 OS44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
LB1722 OS45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
LB1722 OS46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Table 1. Results from the analysis of Own Samples (OS44 to OS46) supplied by the participating laboratories and re-analysis by Thomson Unicomarine Ltd.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
LabCode	PL	Number of Taxa			Number of Individuals				Not extracted			Count Error	Similarity index	Taxonomic Errors	Note
		TUM	Diff (n)	%max	PL	TUM	Diff (n)	%max	NewTaxa	Ind	%ind				
LB1724 OS44	21	22	-1	4.5	173	191	-18	9.4	1	18	9.4	0	93.70	1	No biomass data.
LB1724 OS45	20	21	-1	4.8	122	128	-6	4.7	1	5	3.9	-1	97.60	1	No biomass data.
LB1724 OS46	27	27	0	0.0	438	472	-34	7.2	1	31	6.6	-3	95.60	1	No biomass data.
LB1725 OS44	24	24	0	0.0	139	139	0	0.0	0	0	0.0	0	98.57	1	No biomass data
LB1725 OS45	35	36	-1	2.8	153	163	-10	6.1	1	9	5.5	-1	96.88	0	No biomass data
LB1725 OS46	21	21	0	0.0	27	29	-2	6.9	0	2	6.9	0	93.10	1	No biomass data
LB1726 OS44	26	26	0	0.0	37	37	0	0.0	0	0	0.0	0	81.08	3	Remedial action completed 07/11/11.
LB1726 OS45	25	25	0	0.0	85	85	0	0.0	0	0	0.0	0	100.00	0	-
LB1726 OS46	18	19	-1	5.3	42	42	0	0.0	0	0	0.0	0	98.82	0	-
LB1727 OS44	6	6	0	0.0	10	10	0	0.0	0	0	0.0	0	100.00	0	External audit.
LB1727 OS45	24	24	0	0.0	26	26	0	0.0	0	0	0.0	0	97.30	1	External audit.
LB1727 OS46	3	3	0	0.0	7	7	0	0.0	0	0	0.0	0	100.00	0	External audit.
LB1728 OS44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LB1728 OS45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LB1728 OS46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LB1729 OS44	16	16	0	0.0	1511	1526	-15	1.0	0	0	0.0	-15	99.11	0	-
LB1729 OS45	8	8	0	0.0	1327	1292	35	2.6	0	2	0.2	37	98.66	0	No biomass data
LB1729 OS46	22	22	0	0.0	2071	2044	27	1.3	0	4	0.2	31	99.25	0	No biomass data
LB1730 OS44	22	22	0	0.0	235	235	0	0.0	0	0	0.0	0	99.58	0	External audit.
LB1730 OS45	12	12	0	0.0	1179	1174	5	0.4	0	3	0.3	8	99.70	0	No biomass data
LB1730 OS46	73	73	0	0.0	733	731	2	0.3	0	1	0.1	3	99.87	0	External audit.
LB1731 OS44	6	6	0	0.0	312	307	5	1.6	0	0	0.0	5	99.19	0	No biomass data
LB1731 OS45	53	50	3	5.7	818	813	5	0.6	1	6	0.7	11	98.54	0	No biomass data
LB1731 OS46	25	25	0	0.0	651	637	14	2.2	0	0	0.0	14	98.91	0	No biomass data
LB1732 OS44	60	61	-1	1.6	851	836	15	1.8	1	12	1.4	27	96.27	2	No biomass data
LB1732 OS45	64	64	0	0.0	398	394	4	1.0	1	3	0.8	7	98.52	1	No biomass data
LB1732 OS46	39	39	0	0.0	488	466	22	4.5	0	2	0.4	24	96.45	0	-
LB1733 OS44	8	8	0	0.0	23	25	-2	8.0	0	0	0.0	-2	95.83	0	No biomass data
LB1733 OS45	11	11	0	0.0	82	83	-1	1.2	0	1	1.2	0	96.97	0	No biomass data
LB1733 OS46	12	12	0	0.0	59	59	0	0.0	0	0	0.0	0	100.00	0	-
LB1734 OS44	9	9	0	0.0	29	29	0	0.0	0	0	0.0	0	100.00	0	No biomass data
LB1734 OS45	10	11	-1	9.1	433	469	-36	7.7	1	1	0.2	-35	96.01	0	No biomass data
LB1734 OS46	66	68	-2	2.9	969	969	0	0.0	0	0	0.0	0	98.37	2	-
LB1735 OS44	20	20	0	0.0	336	334	2	0.6	0	0	0.0	2	99.70	0	External audit; No biomass data
LB1735 OS45	22	22	0	0.0	1737	1731	6	0.3	0	0	0.0	6	99.77	0	External audit; no biomass data
LB1735 OS46	11	11	0	0.0	430	428	2	0.5	0	0	0.0	2	99.77	0	External audit; No biomass data
LB1736 OS44	4	4	0	0.0	269	268	1	0.4	0	0	0.0	1	99.81	0	No biomass data
LB1736 OS45	24	24	0	0.0	168	168	0	0.0	0	0	0.0	0	100.00	0	No biomass data
LB1736 OS46	14	14	0	0.0	88	89	-1	1.1	0	0	0.0	-1	99.44	0	No biomass data
LB1737 OS44	38	38	0	0.0	129	128	1	0.8	0	0	0.0	1	95.72	2	No biomass data
LB1737 OS45	81	93	-12	12.9	252	344	-92	26.7	11	91	26.5	-1	82.22	6	No biomass data; Remedial action recommended.
LB1737 OS46	27	30	-3	10.0	177	232	-55	23.7	2	56	24.1	1	86.60	1	No biomass data; Remedial action recommended.
LB1738 OS44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LB1738 OS45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LB1738 OS46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LB1739 OS44	14	17	-3	17.6	84	83	1	1.2	1	0	0.0	1	94.80	2	No biomass data
LB1739 OS45	73	75	-2	2.7	2448	2405	43	1.8	1	41	1.7	84	98.40	7	No biomass data
LB1739 OS46	4	4	0	0.0	44	44	0	0.0	0	0	0.0	0	97.73	0	No biomass data
LB1740 OS44	7	7	0	0.0	106	105	1	0.9	0	0	0.0	1	99.53	0	External audit; No biomass data
LB1740 OS45	64	64	0	0.0	1531	1530	1	0.1	0	0	0.0	1	99.51	0	External audit; No biomass data
LB1740 OS46	60	60	0	0.0	798	799	-1	0.1	0	1	0.1	0	99.56	0	External audit; No biomass data
LB1741 OS44	13	13	0	0.0	130	130	0	0.0	0	0	0.0	0	100.00	0	External audit; No biomass data
LB1741 OS45	56	56	0	0.0	221	221	0	0.0	0	0	0.0	0	100.00	0	External audit; No biomass data
LB1741 OS46	28	28	0	0.0	2305	2306	-1	0.0	0	2	0.1	1	67.51	1	External audit; Remedial action completed 03/09/12.

Key: PL - participating laboratory  
TUM - Thomson Unicomarine Ltd.  
"." - No data.

**Table 2. Comparison of the efficiency of extraction of fauna by the participating laboratories for the major taxonomic groups present in Own Samples (OS44-46).**

LabCode		Nemertea	Polychaeta	Oligochaeta	Chelicerata	Crustacea	Echinodermata	Mollusca	Other	Overall
LB1701	TUM count	3	122	-	-	3	1	47	-	176
OS44	PL missed	0	2	-	-	0	0	0	-	2
	%missed	0.0	1.6	-	-	0.0	0.0	0.0	-	1.1
LB1701	TUM count	4	129	-	-	7	13	16	2	171
OS45	PL missed	0	0	-	-	0	0	0	0	0
	%missed	0.0	0.0	-	-	0.0	0.0	0.0	0.0	0.0
LB1701	TUM count	-	280	-	-	4	3	45	10	342
OS46	PL missed	-	0	-	-	0	0	0	0	0
	%missed	-	0.0	-	-	0.0	0.0	0.0	0.0	0.0
LB1702	AE count	-	32	1	-	12	58	43	2	148
OS44	TUM missed	-	1	0	-	0	0	0	0	1
	%missed	-	3.1	0.0	-	0.0	0.0	0.0	0.0	0.7
LB1702	AE count	1	1107	-	1	1752	4	1954	104	4923
OS45	TUM missed	0	0	-	0	0	0	16	0	16
	%missed	0.0	0.0	-	0.0	0.0	0.0	0.8	0.0	0.3
LB1702	AE count	8	362	45	2	869	6	523	207	2022
OS46	TUM missed	0	2	0	0	0	0	5	4	11
	%missed	0.0	0.6	0.0	0.0	0.0	0.0	1.0	1.9	0.5
LB1703	TUM count	5	146	-	-	7	10	43	-	211
OS44	PL missed	0	0	-	-	0	0	0	-	0
	%missed	0.0	0.0	-	-	0.0	0.0	0.0	-	0.0
LB1703	TUM count	2	62	-	-	18	13	15	2	112
OS45	PL missed	0	0	-	-	0	0	0	0	0
	%missed	0.0	0.0	-	-	0.0	0.0	0.0	0.0	0.0
LB1703	TUM count	4	89	-	-	16	24	15	1	149
OS46	PL missed	0	2	-	-	0	0	0	0	2
	%missed	0.0	2.2	-	-	0.0	0.0	0.0	0.0	1.3
LB1704	TUM count	4	110	-	-	3	3	8	81	209
OS44	PL missed	0	2	-	-	0	0	2	3	7
	%missed	0.0	1.8	-	-	0.0	0.0	25.0	3.7	3.3
LB1704	TUM count	3	92	-	-	5	2	13	80	195
OS45	PL missed	0	3	-	-	0	0	2	0	5
	%missed	0.0	3.3	-	-	0.0	0.0	15.4	0.0	2.6
LB1704	TUM count	2	133	-	-	5	4	1	16	161
OS46	PL missed	0	8	-	-	0	0	0	1	9
	%missed	0.0	6.0	-	-	0.0	0.0	0.0	6.3	5.6
LB1705	TUM count	3	33	-	-	11	3	73	9	132
OS44	PL missed	0	0	-	-	0	0	0	0	0
	%missed	0.0	0.0	-	-	0.0	0.0	0.0	0.0	0.0
LB1705	TUM count	-	4	-	-	1	-	1	-	6
OS45	PL missed	-	0	-	-	0	-	0	-	0
	%missed	-	0.0	-	-	0.0	-	0.0	-	0.0
LB1705	TUM count	-	6	-	-	-	-	4	-	10
OS46	PL missed	-	0	-	-	-	-	0	-	0
	%missed	-	0.0	-	-	-	-	0.0	-	0.0
LB1706	TUM count	8	38	-	1	10	4	93	2	156
OS44	PL missed	1	0	-	0	0	0	0	0	1
	%missed	12.5	0.0	-	0.0	0.0	0.0	0.0	0.0	0.6
LB1706	TUM count	3	41	-	-	7	1	39	1	92
OS45	PL missed	0	2	-	-	0	0	0	0	2
	%missed	0.0	4.9	-	-	0.0	0.0	0.0	0.0	2.2
LB1706	TUM count	2	54	-	-	2	1	49	12	120
OS46	PL missed	0	4	-	-	0	0	1	0	5
	%missed	0.0	7.4	-	-	0.0	0.0	2.0	0.0	4.2

**Table 2. Comparison of the efficiency of extraction of fauna by the participating laboratories for the major taxonomic groups present in Own Samples (OS44-46).**

LabCode		Nemertea	Polychaeta	Oligochaeta	Chelicerata	Crustacea	Echinodermata	Mollusca	Other	Overall
LB1707	TUM count	-	6	-	-	8	10	-	-	24
OS44	PL missed	-	0	-	-	0	0	-	-	0
	%missed	-	0.0	-	-	0.0	0.0	-	-	0.0
LB1707	TUM count	-	20	-	-	4	1	74	-	99
OS45	PL missed	-	0	-	-	0	0	0	-	0
	%missed	-	0.0	-	-	0.0	0.0	0.0	-	0.0
LB1707	TUM count	1	21	-	-	9	6	23	-	60
OS46	PL missed	0	0	-	-	0	0	0	-	0
	%missed	0.0	0.0	-	-	0.0	0.0	0.0	-	0.0
LB1709	TUM count	-	5	1	-	10	-	1	-	17
OS44	PL missed	-	1	0	-	1	-	1	-	3
	%missed	-	20.0	0.0	-	10.0	-	100.0	-	17.6
LB1709	TUM count	-	-	-	-	2	-	10	-	12
OS45	PL missed	-	-	-	-	0	-	1	-	1
	%missed	-	-	-	-	0.0	-	10.0	-	8.3
LB1709	TUM count	-	25	-	-	23	-	44	-	92
OS46	PL missed	-	1	-	-	1	-	0	-	2
	%missed	-	4.0	-	-	4.3	-	0.0	-	2.2
LB1710	TUM count	-	38	7	-	1	1	-	-	47
OS44	PL missed	-	1	0	-	0	0	-	-	1
	%missed	-	2.6	0.0	-	0.0	0.0	-	-	2.1
LB1710	TUM count	-	33	-	-	6	-	1	-	40
OS45	PL missed	-	0	-	-	0	-	1	-	1
	%missed	-	0.0	-	-	0.0	-	0.0	-	2.5
LB1710	TUM count	-	29	-	-	3	-	-	-	32
OS46	PL missed	-	2	-	-	0	-	-	-	2
	%missed	-	6.9	-	-	0.0	-	-	-	6.3
LB1711	TUM count	-	45	22	-	18	-	3	-	88
OS44	PL missed	-	2	0	-	0	-	0	-	2
	%missed	-	4.4	0.0	-	0.0	-	0.0	-	2.3
LB1711	TUM count	-	2	-	-	15	-	4	-	21
OS45	PL missed	-	0	-	-	1	-	0	-	1
	%missed	-	0.0	-	-	6.7	-	0.0	-	4.8
LB1711	TUM count	1	11	1	-	5	-	8	-	26
OS46	PL missed	0	0	1	-	0	-	0	-	1
	%missed	0.0	0.0	100.0	-	0.0	-	0.0	-	3.8
LB1712	TUM count	-	-	-	-	-	-	-	-	0
OS44	PL missed	-	-	-	-	-	-	-	-	0
	%missed	-	-	-	-	-	-	-	-	-
LB1712	TUM count	-	-	-	-	-	-	-	-	0
OS45	PL missed	-	-	-	-	-	-	-	-	0
	%missed	-	-	-	-	-	-	-	-	-
LB1712	TUM count	-	-	-	-	-	-	-	-	0
OS46	PL missed	-	-	-	-	-	-	-	-	0
	%missed	-	-	-	-	-	-	-	-	-

**Table 2. Comparison of the efficiency of extraction of fauna by the participating laboratories for the major taxonomic groups present in Own Samples (OS44-46).**

LabCode		Nemertea	Polychaeta	Oligochaeta	Chelicerata	Crustacea	Echinodermata	Mollusca	Other	Overall
LB1713	TUM count	2	233	-	-	8	4	57	3	307
OS44	PL missed	0	0	-	-	0	0	0	0	0
	%missed	0.0	0.0	-	-	0.0	0.0	0.0	0.0	0.0
LB1713	TUM count	-	6	2	-	70	-	6	-	84
OS45	PL missed	-	0	0	-	0	-	0	-	0
	%missed	-	0.0	0.0	-	0.0	-	0.0	-	0.0
LB1713	TUM count	-	4	1	-	-	-	3	1	9
OS46	PL missed	-	0	0	-	-	-	0	0	0
	%missed	-	0.0	0.0	-	-	-	0.0	0.0	0.0
LB1714	TUM count	3	101	-	-	29	25	29	5	192
OS44	PL missed	0	4	-	-	0	2	9	0	15
	%missed	0.0	4.0	-	-	0.0	8.0	31.0	0.0	7.8
LB1714	TUM count	-	54	-	-	25	27	48	5	159
OS45	PL missed	-	2	-	-	1	2	11	0	16
	%missed	-	3.7	-	-	4.0	7.4	22.9	0.0	10.1
LB1714	TUM count	-	78	-	-	28	20	38	12	176
OS46	PL missed	-	1	-	-	1	0	1	0	3
	%missed	-	1.3	-	-	3.6	0.0	2.6	0.0	1.7
LB1715	TUM count	2	91	-	-	3	1	257	-	354
OS44	PL missed	0	0	-	-	0	0	0	-	0
	%missed	0.0	0.0	-	-	0.0	0.0	0.0	-	0.0
LB1715	TUM count	-	20	-	-	3	8	160	-	191
OS45	PL missed	-	0	-	-	0	0	0	-	0
	%missed	-	0.0	-	-	0.0	0.0	0.0	-	0.0
LB1715	TUM count	1	17	-	-	5	4	491	-	518
OS46	PL missed	0	0	-	-	0	0	0	-	0
	%missed	0.0	0.0	-	-	0.0	0.0	0.0	-	0.0
LB1717	TUM count	6	462	-	1	251	2	180	52	954
OS44	PL missed	0	5	-	0	0	0	0	0	5
	%missed	0.0	1.1	-	0.0	0.0	0.0	0.0	0.0	0.5
LB1717	TUM count	1	4	-	-	15	-	1	-	21
OS45	PL missed	0	0	-	-	0	-	0	-	0
	%missed	0.0	0.0	-	-	0.0	-	0.0	-	0.0
LB1717	TUM count	4	145	-	-	2	1	2	3	157
OS46	PL missed	0	0	-	-	0	0	0	0	0
	%missed	0.0	0.0	-	-	0.0	0.0	0.0	0.0	0.0
LB1718	TUM count	-	1	-	-	1	1	-	-	3
OS44	PL missed	-	0	-	-	0	0	-	-	0
	%missed	-	0.0	-	-	0.0	0.0	-	-	0.0
LB1718	TUM count	-	416	-	-	-	-	1	-	417
OS45	PL missed	-	0	-	-	-	-	0	-	0
	%missed	-	0.0	-	-	-	-	0.0	-	0.0
LB1718	TUM count	-	25	-	-	1	-	3	-	29
OS46	PL missed	-	0	-	-	0	-	0	-	0
	%missed	-	0.0	-	-	0.0	-	0.0	-	0.0
LB1719	TUM count	-	1011	-	-	-	-	3	-	1014
OS44	PL missed	-	0	-	-	-	-	0	-	0
	%missed	-	0.0	-	-	-	-	0.0	-	0.0
LB1719	TUM count	2	26	-	-	-	-	3	-	31
OS45	PL missed	1	1	-	-	-	-	0	-	2
	%missed	50.0	3.8	-	-	-	-	0.0	-	6.5
LB1719	TUM count	4	46	-	-	-	-	3	1	54
OS46	PL missed	0	0	-	-	-	-	0	0	0
	%missed	0.0	0.0	-	-	-	-	0.0	0.0	0.0
LB1720	TUM count	-	1	-	-	4	-	9	28	42
OS44	PL missed	-	0	-	-	1	-	0	0	1
	%missed	-	0.0	-	-	25.0	-	0.0	0.0	2.4
LB1720	TUM count	-	69	-	-	32	23	54	3	181
OS45	PL missed	-	3	-	-	2	1	1	0	7
	%missed	-	4.3	-	-	6.3	4.3	1.9	0.0	3.9
LB1720	TUM count	-	27	-	-	10	7	27	-	71
OS46	PL missed	-	0	-	-	0	0	0	-	0
	%missed	-	0.0	-	-	0.0	0.0	0.0	-	0.0

**Table 2. Comparison of the efficiency of extraction of fauna by the participating laboratories for the major taxonomic groups present in Own Samples (OS44-46).**

LabCode		Nemertea	Polychaeta	Oligochaeta	Chelicerata	Crustacea	Echinodermata	Mollusca	Other	Overall
LB1722	TUM count	-	-	-	-	-	-	-	-	0
OS44	PL missed	-	-	-	-	-	-	-	-	0
	%missed	-	-	-	-	-	-	-	-	-
LB1722	TUM count	-	-	-	-	-	-	-	-	0
OS45	PL missed	-	-	-	-	-	-	-	-	0
	%missed	-	-	-	-	-	-	-	-	-
LB1722	TUM count	-	-	-	-	-	-	-	-	0
OS46	PL missed	-	-	-	-	-	-	-	-	0
	%missed	-	-	-	-	-	-	-	-	-
LB1724	TUM count	-	36	1	-	15	38	101	-	191
OS44	PL missed	-	1	0	-	0	0	17	-	18
	%missed	-	2.8	0.0	-	0.0	0.0	16.8	-	9.4
LB1724	TUM count	2	29	-	-	87	2	2	6	128
OS45	PL missed	0	0	-	-	0	0	1	4	5
	%missed	0.0	0.0	-	-	0.0	0.0	50.0	66.7	3.9
LB1724	TUM count	-	37	-	-	9	82	340	4	472
OS46	PL missed	-	3	-	-	1	4	23	0	31
	%missed	-	8.1	-	-	11.1	4.9	6.8	0.0	6.6
LB1725	TUM count	1	112	3	-	1	-	20	2	139
OS44	PL missed	0	0	0	-	0	-	0	0	0
	%missed	0.0	0.0	0.0	-	0.0	-	0.0	0.0	0.0
LB1725	TUM count	2	110	-	-	11	7	32	1	163
OS45	PL missed	0	4	-	-	1	2	2	0	9
	%missed	0.0	3.6	-	-	9.1	28.6	6.3	0.0	5.5
LB1725	TUM count	-	17	-	-	5	-	6	1	29
OS46	PL missed	-	2	-	-	0	-	0	0	2
	%missed	-	11.8	-	-	0.0	-	0.0	0.0	6.9
LB1726	TUM count	1	16	-	-	5	4	9	2	37
OS44	PL missed	0	0	-	-	0	0	0	0	0
	%missed	0.0	0.0	-	-	0.0	0.0	0.0	0.0	0.0
LB1726	TUM count	-	23	-	-	22	37	3	-	85
OS45	PL missed	-	0	-	-	0	0	0	-	0
	%missed	-	0.0	-	-	0.0	0.0	0.0	-	0.0
LB1726	TUM count	-	8	-	-	5	11	18	-	42
OS46	PL missed	-	0	-	-	0	0	0	-	0
	%missed	-	0.0	-	-	0.0	0.0	0.0	-	0.0
LB1727	AE count	-	3	-	-	-	5	2	-	10
OS44	TUM missed	-	0	-	-	-	0	0	-	0
	%missed	-	0.0	-	-	-	0.0	0.0	-	0.0
LB1727	AE count	6	16	-	-	1	2	1	-	26
OS45	TUM missed	0	0	-	-	0	0	0	-	0
	%missed	0.0	0.0	-	-	0.0	0.0	0.0	-	0.0
LB1727	AE count	-	1	-	-	4	-	2	-	7
OS46	TUM missed	-	0	-	-	0	-	0	-	0
	%missed	-	0.0	-	-	0.0	-	0.0	-	0.0
LB1728	TUM count	-	-	-	-	-	-	-	-	0
OS44	PL missed	-	-	-	-	-	-	-	-	0
	%missed	-	-	-	-	-	-	-	-	-
LB1728	TUM count	-	-	-	-	-	-	-	-	0
OS45	PL missed	-	-	-	-	-	-	-	-	0
	%missed	-	-	-	-	-	-	-	-	-
LB1728	TUM count	-	-	-	-	-	-	-	-	0
OS46	PL missed	-	-	-	-	-	-	-	-	0
	%missed	-	-	-	-	-	-	-	-	-
LB1729	TUM count	-	312	425	-	81	-	15	693	1526
OS44	PL missed	-	0	0	-	0	-	0	0	0
	%missed	-	0.0	0.0	-	0.0	-	0.0	0.0	0.0
LB1729	TUM count	-	55	568	-	189	-	2	478	1292
OS45	PL missed	-	0	0	-	0	-	0	2	2
	%missed	-	0.0	0.0	-	0.0	-	0.0	0.4	0.2
LB1729	TUM count	9	509	695	1	-	-	260	570	2044
OS46	PL missed	0	0	1	0	-	-	2	1	4
	%missed	0.0	0.0	0.1	0.0	-	-	0.8	0.2	0.2



**Table 2. Comparison of the efficiency of extraction of fauna by the participating laboratories for the major taxonomic groups present in Own Samples (OS44-46).**

LabCode		Nemertea	Polychaeta	Oligochaeta	Chelicerata	Crustacea	Echinodermata	Mollusca	Other	Overall
LB1730	AE count	2	94	59	-	23	-	3	54	235
OS44	TUM missed	0	0	0	-	0	-	0	0	0
	%missed	0.0	0.0	0.0	-	0.0	-	0.0	0.0	0.0
LB1730	TUM count	3	130	3	-	1013	-	25	-	1174
OS45	PL missed	0	1	0	-	2	-	0	-	3
	%missed	0.0	0.8	0.0	-	0.2	-	0.0	-	0.3
LB1730	AE count	13	474	2	-	44	13	164	21	731
OS46	TUM missed	0	1	0	-	0	0	0	0	1
	%missed	0.0	0.2	0.0	-	0.0	0.0	0.0	0.0	0.1
LB1731	TUM count	-	45	262	-	-	-	-	-	307
OS44	PL missed	-	0	0	-	-	-	-	-	0
	%missed	-	0.0	0.0	-	-	-	-	-	0.0
LB1731	TUM count	4	627	-	-	6	23	151	2	813
OS45	PL missed	0	1	-	-	0	1	4	0	6
	%missed	0.0	0.2	-	-	0.0	4.3	2.6	0.0	0.7
LB1731	TUM count	-	478	137	-	4	-	2	16	637
OS46	PL missed	-	0	0	-	0	-	0	0	0
	%missed	-	0.0	0.0	-	0.0	-	0.0	0.0	0.0
LB1732	TUM count	4	613	5	2	71	-	60	81	836
OS44	PL missed	0	6	0	0	1	-	3	2	12
	%missed	0.0	1.0	0.0	0.0	1.4	-	5.0	2.5	1.4
LB1732	TUM count	7	322	7	1	7	-	34	16	394
OS45	PL missed	0	0	0	0	0	-	2	1	3
	%missed	0.0	0.0	0.0	0.0	0.0	-	5.9	6.3	0.8
LB1732	TUM count	7	59	-	1	5	266	108	20	466
OS46	PL missed	0	0	-	0	0	0	2	0	2
	%missed	0.0	0.0	-	0.0	0.0	0.0	1.9	0.0	0.4
LB1733	TUM count	-	1	8	-	7	-	7	2	25
OS44	PL missed	-	0	0	-	0	-	0	0	0
	%missed	-	0.0	0.0	-	0.0	-	0.0	0.0	0.0
LB1733	TUM count	-	26	6	-	4	-	34	13	83
OS45	PL missed	-	0	1	-	0	-	0	0	1
	%missed	-	0.0	16.7	-	0.0	-	0.0	0.0	1.2
LB1733	TUM count	-	25	-	-	3	-	30	1	59
OS46	PL missed	-	0	-	-	0	-	0	0	0
	%missed	-	0.0	-	-	0.0	-	0.0	0.0	0.0
LB1734	TUM count	-	6	1	-	12	-	10	-	29
OS44	PL missed	-	0	0	-	0	-	0	-	0
	%missed	-	0.0	0.0	-	0.0	-	0.0	-	0.0
LB1734	TUM count	-	51	356	-	41	-	4	17	469
OS45	PL missed	-	0	0	-	0	-	1	0	1
	%missed	-	0.0	0.0	-	0.0	-	25.0	0.0	0.2
LB1734	TUM count	-	840	73	-	17	-	5	34	969
OS46	PL missed	-	0	0	-	0	-	0	0	0
	%missed	-	0.0	0.0	-	0.0	-	0.0	0.0	0.0
LB1735	AE count	-	172	108	-	38	-	14	2	334
OS44	TUM missed	-	0	0	-	0	-	0	0	0
	%missed	-	0.0	0.0	-	0.0	-	0.0	0.0	0.0
LB1735	AE count	-	326	746	-	1	-	656	2	1731
OS45	TUM missed	-	0	0	-	0	-	0	0	0
	%missed	-	0.0	0.0	-	0.0	-	0.0	0.0	0.0
LB1735	AE count	1	5	1	-	16	-	398	7	428
OS46	TUM missed	0	0	0	-	0	-	0	0	0
	%missed	0.0	0.0	0.0	-	0.0	-	0.0	0.0	0.0
LB1736	TUM count	-	262	-	-	-	-	-	6	268
OS44	PL missed	-	0	-	-	-	-	-	0	0
	%missed	-	0.0	-	-	-	-	-	0.0	0.0
LB1736	TUM count	-	103	-	-	2	-	61	2	168
OS45	PL missed	-	0	-	-	0	-	0	0	0
	%missed	-	0.0	-	-	0.0	-	0.0	0.0	0.0
LB1736	TUM count	-	72	-	-	-	-	16	1	89
OS46	PL missed	-	0	-	-	-	-	0	0	0
	%missed	-	0.0	-	-	-	-	0.0	0.0	0.0

**Table 2. Comparison of the efficiency of extraction of fauna by the participating laboratories for the major taxonomic groups present in Own Samples (OS44-46).**

LabCode		Nemertea	Polychaeta	Oligochaeta	Chelicerata	Crustacea	Echinodermata	Mollusca	Other	Overall
LB1737	TUM count	3	79	-	-	15	5	22	4	128
OS44	PL missed	0	0	-	-	0	0	0	0	0
	%missed	0.0	0.0	-	-	0.0	0.0	0.0	0.0	0.0
LB1737	TUM count	8	157	-	3	64	31	59	22	344
OS45	PL missed	0	22	-	1	26	2	40	0	91
	%missed	0.0	14.0	-	33.3	40.6	6.5	67.8	0.0	26.5
LB1737	TUM count	4	121	19	-	48	-	37	3	232
OS46	PL missed	3	20	1	-	15	-	17	0	56
	%missed	75.0	16.5	5.3	-	31.3	-	45.9	0.0	24.1
LB1738	TUM count	-	-	-	-	-	-	-	-	0
OS44	PL missed	-	-	-	-	-	-	-	-	0
	%missed	-	-	-	-	-	-	-	-	-
LB1738	TUM count	-	-	-	-	-	-	-	-	0
OS45	PL missed	-	-	-	-	-	-	-	-	0
	%missed	-	-	-	-	-	-	-	-	-
LB1738	TUM count	-	-	-	-	-	-	-	-	0
OS46	PL missed	-	-	-	-	-	-	-	-	0
	%missed	-	-	-	-	-	-	-	-	-
LB1739	TUM count	-	-	-	-	42	4	37	-	83
OS44	PL missed	-	-	-	-	0	0	0	-	0
	%missed	-	-	-	-	0.0	0.0	0.0	-	0.0
LB1739	TUM count	39	1587	5	30	19	4	488	233	2405
OS45	PL missed	0	13	0	7	0	0	18	3	41
	%missed	0.0	0.8	0.0	23.3	0.0	0.0	3.7	1.3	1.7
LB1739	TUM count	-	-	-	-	44	-	-	-	44
OS46	PL missed	-	-	-	-	0	-	-	-	0
	%missed	-	-	-	-	0.0	-	-	-	0.0
LB1740	AE count	-	15	1	-	86	-	1	2	105
OS44	TUM missed	-	0	0	-	0	-	0	0	0
	%missed	-	0.0	0.0	-	0.0	-	0.0	0.0	0.0
LB1740	AE count	-	1376	74	1	50	-	14	15	1530
OS45	TUM missed	-	0	0	0	0	-	0	0	0
	%missed	-	0.0	0.0	0.0	0.0	-	0.0	0.0	0.0
LB1740	AE count	-	588	70	1	66	-	44	30	799
OS46	TUM missed	-	1	0	0	0	-	0	0	1
	%missed	-	0.2	0.0	0.0	0.0	-	0.0	0.0	0.1
LB1741	AE count	1	46	-	-	71	-	10	2	130
OS44	TUM missed	0	0	-	-	0	-	0	0	0
	%missed	0.0	0.0	-	-	0.0	-	0.0	0.0	0.0
LB1741	AE count	2	109	1	-	7	16	74	12	221
OS45	TUM 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
LB1741	AE count	-	2255	13	1	-	-	29	8	2306
OS46	TUM missed	-	2	0	0	-	-	0	0	2
	%missed	-	0.1	0.0	0.0	-	-	0.0	0.0	0.1

Key: PL - participating laboratory  
TUM - Thomson Unicomarine Ltd.  
AE- Aquatic Environments (External Auditor)  
"- " - No data.

Table 3. Summary of mis-identified taxa in the Own Sample Module (OS44 - 46) (erroneous identifications in brackets).

LabCode	OS	Taxonomic Errors	Major Taxonomic Group					
			Polychaeta	Oligochaeta	Mollusca	Crustacea	Echinodermata	Other
LB1701	OS44	2	-	-	<i>Acanthocardia echinata</i> juv. ( <i>Parvicardium minimum</i> ) <i>Abra nitida</i> ( <i>A. tenuis</i> )	-	-	-
LB1701	OS45	4	<i>Aricidea suecica</i> ( <i>Cirrophorus branchiatus</i> ) <i>Scolecipis korsuni</i> ( <i>S. tridentata</i> ) <i>Trichobranchus glacialis</i> ? ( <i>Polycirrus</i> sp.)	-	<i>Nucula sulcata</i> ( <i>N. nitidosa</i> )	-	-	-
LB1701	OS46	3	-	-	<i>Nucula nucleus</i> ( <i>N. nitidosa</i> ) <i>Abra alba</i> ( <i>A. prismatica</i> ) <i>Gari fervensis</i> juv. ( <i>Thracia phaseolina</i> )	-	-	-
LB1702	OS44	0	-	-	-	-	-	-
LB1702	OS45	0	-	-	-	-	-	-
LB1702	OS46	0	-	-	-	-	-	-
LB1703	OS44	5	<i>Augeneria</i> sp. ( <i>Lambrineris gracilis</i> )	-	<i>Scutopus ventrolineatus</i> ( <i>Chaetoderma nitidulum</i> ) <i>Thyasira equalis</i> ( <i>T. flexuosa</i> ) <i>Adontorhina similis</i> ( <i>Axinulus croulinensis</i> ) <i>Arctica islandicus</i> juv. ( <i>Veneracea</i> sp. juv.)	-	-	-
LB1703	OS45	1	<i>Glycinder nordmanni</i> ( <i>Glycera lapidum</i> )	-	-	-	-	-
LB1703	OS46	2	-	-	<i>Parvicardium minimum</i> ( <i>P. scabrum</i> ) <i>Pandora pinna</i> ( <i>P. albida</i> )	-	-	-
LB1704	OS44	0	-	-	-	-	-	-
LB1704	OS45	1	<i>Hesionura elongata</i> ( <i>Eulalia mustela</i> )	-	-	-	-	-
LB1704	OS46	3	<i>Filograna implexa</i> ( <i>Jasmineira candela</i> ) <i>Malacoceros jirkovi</i> ? ( <i>M. fuliginosus</i> )	-	<i>Flabellinidae</i> ( <i>Aeolidiidae</i> sp.)	-	-	-
LB1705	OS44	4	<i>Pholoe pallida</i> ( <i>P. baltica</i> ) <i>Abyssoninoe hibernica</i> ( <i>Lambrineris</i> sp.) <i>Driloneis</i> sp. ( <i>Lambrineris clathrensis</i> ) <i>Prasillella gracilis</i> ( <i>P. affinis</i> )	-	<i>Bela brachystoma</i> ( <i>Mangelia nebula</i> )	-	-	-
LB1705	OS45	1	-	-	-	-	-	-
LB1705	OS46	2	-	-	<i>Rhopalomenia aglaophenietae</i> ( <i>Chaetoderma nitidulum</i> ) <i>Thracia</i> sp. juv. ( <i>Abra</i> sp.)	-	-	-
LB1706	OS44	2	<i>Polydora ciliata</i> #1 ( <i>P. caeca</i> agg.)	-	<i>Mangelia costata</i> ( <i>M. attenuata</i> )	-	-	-
LB1706	OS45	0	-	-	-	-	-	-
LB1706	OS46	2	-	-	<i>Mangelia costata</i> ( <i>M. attenuata</i> ) <i>Abra nitida</i> ( <i>A. alba</i> )	-	-	-
LB1707	OS44	0	-	-	-	-	-	-
LB1707	OS45	0	-	-	-	-	-	-
LB1707	OS46	0	-	-	-	-	-	-
LB1709	OS44	0	-	-	-	-	-	-
LB1709	OS45	0	-	-	-	-	-	-
LB1709	OS46	0	-	-	-	-	-	-
LB1710	OS44	1	<i>Ophelia borealis</i> ( <i>O. limacina</i> )	-	-	-	-	-
LB1710	OS45	4	<i>Ophelia borealis</i> ( <i>O. limacina</i> ) <i>Protodriloides chaetifer</i> ( <i>Protodrilus kefersteini</i> ) <i>Glycera oxycephala</i> ( <i>G. lapidum</i> ) <i>Ophelia borealis</i> ( <i>O. limacina</i> )	-	-	<i>Paramysis novelli</i> ( <i>P. arenosa</i> ) <i>Processa modica</i> ( <i>P. parva</i> )	-	-
LB1710	OS46	2	-	-	-	-	-	-
LB1711	OS44	1	<i>P. cornuta</i> ( <i>P. ciliata</i> )	-	-	-	-	-
LB1711	OS45	0	-	-	-	-	-	-
LB1711	OS46	0	-	-	-	-	-	-
LB1712	OS44	-	-	-	-	-	-	-
LB1712	OS45	-	-	-	-	-	-	-
LB1712	OS46	-	-	-	-	-	-	-
LB1713	OS44	1	-	-	<i>Tellimya ferruginosa</i> ( <i>Decipula tenella</i> )	-	-	-
LB1713	OS45	0	-	-	-	-	-	-
LB1713	OS46	0	-	-	-	-	-	-
LB1714	OS44	1	-	-	-	-	-	-
LB1714	OS45	4	<i>Minuspio cirrifera</i> ( <i>P. fallax</i> ) <i>Scolecipis korsuni</i> ( <i>S. foliosa</i> )	-	-	<i>Medicorophium affine</i> ( <i>Siphonocetes</i> spp.) <i>Pontocrates arcticus</i> #1 ( <i>P. altamarinus</i> ) <i>Medicorophium affine</i> ( <i>Siphonocetes</i> spp.) <i>Pontocrates arcticus</i> #1 ( <i>P. altamarinus</i> )	-	-
LB1714	OS46	1	-	-	-	-	-	-
LB1715	OS44	0	-	-	-	-	-	-
LB1715	OS45	0	-	-	-	-	-	-
LB1715	OS46	0	-	-	-	-	-	-
LB1717	OS44	4	-	-	<i>Abra nitida</i> ( <i>A. alba</i> ) <i>Venerupis senegalensis</i> ( <i>Tapes rhomboides</i> )	<i>Anpelsca tenuicornis</i> / <i>A. diadema</i> ( <i>A. spinipes</i> )	-	<i>Alcyonium digitatum</i> ( <i>Didemnidae</i> )
LB1717	OS45	0	-	-	-	-	-	-
LB1717	OS46	1	<i>Chymerura</i> sp. (not following stated id. policy)	-	-	-	-	-
LB1718	OS44	0	-	-	-	-	-	-
LB1718	OS45	0	-	-	-	-	-	-
LB1718	OS46	3	<i>Leitoscoloplos nanus</i> ( <i>Scoloplos armiger</i> )	-	<i>Abra nitida</i> ( <i>A. prismatica</i> )	<i>Pagurus bernhardus</i> ( <i>P. pubescens</i> )	-	-

Table 3. Summary of mis-identified taxa in the Own Sample Module (OS44 - 46) (erroneous identifications in brackets).

LabCode	OS	Taxonomic Errors	Major Taxonomic Group					
			Polychaeta	Oligochaeta	Mollusca	Crustacea	Echinodermata	Other
LB1719	OS44	0	-	-	-	-	-	-
LB1719	OS45	1	<i>Aricidea cerrutii</i> ( <i>Paradoneis lyra</i> )	-	-	-	-	-
LB1719	OS46	1	-	-	<i>Abra nitida</i> ( <i>A. alba</i> )	-	-	-
LB1720	OS44	5	<i>Nephtys cirrosa</i> ( <i>N. caeca</i> )	-	<i>Abra alba</i> ( <i>A. prismatica</i> ) <i>Spisula</i> sp. juv. ( <i>Macoma balthica</i> )	<i>Bathyporeia nana</i> ( <i>B. pelagica</i> ) <i>Pseudocuma longicornis</i> ( <i>Nannastacidae</i> juv.)	-	-
LB1720	OS45	19	<i>Eumida bahusensis</i> / <i>Phaloe inornata</i> ( <i>E. sanguinea</i> ) <i>Eupolymnia nesidensis</i> / <i>Spiophanes bombyx</i> ( <i>Lanice conchilega</i> ) <i>Magelona johnstoni</i> ( <i>M. mirabilis</i> ) <i>Nephtys cirrosa</i> ( <i>N. caeca</i> ) <i>Nephtys hombergii</i> ( <i>N. cirrosa</i> ) <i>Scoloplos armiger</i> ( <i>Ophelina acuminata</i> ) <i>Chaetozone christiei</i> ( <i>Ophelina cylindricaudata</i> ) <i>Sigalion mathildae</i> ( <i>S. squamosus</i> ) <i>Spio decorata</i> ( <i>S. armata</i> ) <i>Spiophanes bombyx</i> ( <i>Syllidae</i> (Type 1 juv.))	-	<i>Thracia</i> sp. juv. / <i>Hiattella arctica</i> ( <i>Abra prismatica</i> ) <i>Arctica islandicus</i> juv. / <i>Spisula</i> sp. juv. ( <i>Macoma balthica</i> ) <i>Nucula nitidosa</i> / <i>Kurtiella bidentata</i> ( <i>N. sulcata</i> ) <i>Chamelea striatula</i> juv. ( <i>Venus casina</i> )	<i>Bathyporeia nana</i> ( <i>B. pelagica</i> ) <i>Phtisica marina</i> ( <i>Pariambus typicus</i> )	<i>Amphiuroidae</i> juv. ( <i>Ophicomina nigra</i> ) <i>Ophiura albida</i> ( <i>Ophiocent affinis</i> )	<i>Phoronis</i> sp. ( <i>Manayunkia aestuarina</i> )
LB1720	OS46	12	<i>Chaetozone christiei</i> ( <i>C. gibber</i> ) <i>Eumida bahusensis</i> ( <i>E. sanguinea</i> ) <i>Magelona johnstoni</i> ( <i>M. minuta</i> ) <i>Nephtys cirrosa</i> ( <i>N. caeca</i> ) <i>Spio decorata</i> ( <i>S. armata</i> )	-	<i>Angulus tenuis</i> ( <i>Abra alba</i> ) <i>Phaxas pellucidus</i> ( <i>Ensis ensis</i> ) <i>Spisula</i> sp. juv. ( <i>Macoma balthica</i> ) <i>Gouldia minima</i> ? ( <i>Venus casina</i> ) <i>Pusillina incrassata</i> ( <i>Hydrobia ulvae</i> )	<i>Pontocrates arenarius</i> ( <i>Perioculodes longimanus</i> ) <i>Pseudocuma longicornis</i> ( <i>Campylaspis costata</i> )	-	-
LB1722	OS44	-	-	-	-	-	-	-
LB1722	OS45	-	-	-	-	-	-	-
LB1722	OS46	-	-	-	-	-	-	-
LB1724	OS44	1	<i>Eumida bahusensis</i> ( <i>E. sanguinea</i> )	-	-	-	-	-
LB1724	OS45	0	-	-	-	-	-	-
LB1724	OS46	1	-	-	<i>Abra nitida</i> ( <i>A. alba</i> )	-	-	-
LB1725	OS44	1	-	-	<i>Nassarius pygmaeus</i> ( <i>N. incrassatus</i> )	-	-	-
LB1725	OS45	0	-	-	-	-	-	-
LB1725	OS46	1	-	-	<i>Eulimella ventricosa</i> ( <i>Aclidae</i> spp. Indet.)	-	-	-
LB1726	OS44	3	<i>Augeneria</i> sp. ( <i>Lambrineris gracilis</i> ) <i>Chone cf. collaris</i> ( <i>C. fauveli</i> )	-	<i>Thyasira equalis</i> ( <i>T. flexuosa</i> )	-	-	-
LB1726	OS45	0	-	-	-	-	-	-
LB1726	OS46	0	-	-	-	-	-	-
LB1727	OS44	0	-	-	-	-	-	-
LB1727	OS45	1	-	-	<i>Spisula elliptica</i> ( <i>S. solida</i> )	-	-	-
LB1727	OS46	0	-	-	-	-	-	-
LB1728	OS44	-	-	-	-	-	-	-
LB1728	OS45	-	-	-	-	-	-	-
LB1728	OS46	-	-	-	-	-	-	-
LB1729	OS44	0	-	-	-	-	-	-
LB1729	OS45	0	-	-	-	-	-	-
LB1729	OS46	0	-	-	-	-	-	-
LB1730	OS44	0	-	-	-	-	-	-
LB1730	OS45	0	-	-	-	-	-	-
LB1730	OS46	0	-	-	-	-	-	-
LB1731	OS44	0	-	-	-	-	-	-
LB1731	OS45	0	-	-	-	-	-	-
LB1731	OS46	0	-	-	-	-	-	-
LB1732	OS44	2	<i>Praxillella affinis</i> ( <i>Euclymene oerstedii</i> ) <i>Exogone hebes</i> ( <i>E. verugera</i> )	-	-	-	-	-
LB1732	OS45	1	-	-	-	-	-	<i>Golfingia elongata</i> ( <i>G. vulgaris</i> )
LB1732	OS46	0	-	-	-	-	-	-
LB1733	OS44	0	-	-	-	-	-	-
LB1733	OS45	0	-	-	-	-	-	-
LB1733	OS46	0	-	-	-	-	-	-
LB1734	OS44	0	-	-	-	-	-	-
LB1734	OS45	0	-	-	-	-	-	-
LB1734	OS46	2	<i>Harmothoe impar</i> agg. ( <i>Gattyana cirrosa</i> ) <i>Spio decorata</i> ( <i>Pygospio elegans</i> )	-	-	-	-	-
LB1735	OS44	0	-	-	-	-	-	-
LB1735	OS45	0	-	-	-	-	-	-
LB1735	OS46	0	-	-	-	-	-	-

**Table 3. Summary of mis-identified taxa in the Own Sample Module (OS44 - 46) (erroneous identifications in brackets).**

LabCode	OS	Taxonomic Errors	Major Taxonomic Group					
			Polychaeta	Oligochaeta	Mollusca	Crustacea	Echinodermata	Other
LB1736	OS44	0	-	-	-	-	-	-
LB1736	OS45	0	-	-	-	-	-	-
LB1736	OS46	0	-	-	-	-	-	-
LB1737	OS44	2	<i>Ampharete lindstroemi</i> ( <i>A. fumarchica</i> )	-	-	<i>Synchelidium maculatum</i> ( <i>S. haplocheles</i> )	-	-
LB1737	OS45	6	<i>Cirratulus incertus</i> ( <i>C. cirratus</i> ) <i>Ampharete lindstroemi</i> ( <i>A. fumarchica</i> ) <i>Chone filicaudata</i> ( <i>Jasmineira caudata</i> )	-	<i>Gibbula tumida</i> ( <i>G. cineraria</i> ) <i>Laevicardium crassum</i> juv. ( <i>Epilepton clarkiae</i> )	<i>Synchelidium maculatum</i> ( <i>S. haplocheles</i> )	-	-
LB1737	OS46	1	<i>Myriochele</i> sp. ( <i>Galathowenia oculata</i> )	-	-	-	-	-
LB1738	OS44	-	-	-	-	-	-	-
LB1738	OS45	-	-	-	-	-	-	-
LB1738	OS46	-	-	-	-	-	-	-
LB1739	OS44	2	-	-	<i>Melaraphe neritoides</i> ( <i>Littorina</i> juvs) <i>Onoba aculeus</i> ( <i>O. semicostata</i> )	-	-	-
LB1739	OS45	7	<i>Harmothoe impar</i> agg. ( <i>Gattyana cirrosa</i> )	-	<i>Lamellaria perspicua</i> ( <i>Berthella plumula</i> )	-	-	<i>Callipalene</i> sp. ( <i>Nymphon brevirostre</i> ) <i>Ammothella longipes</i> ( <i>Achelia echinata</i> ) <i>Ammothella longipes</i> ( <i>Achelia laevis</i> ) <i>Actea</i> sp. ( <i>Nolella dilatata</i> ) <i>Ascidella scabra</i> ( <i>A. aspersa</i> )
LB1739	OS46	0	-	-	-	-	-	-
LB1740	OS44	0	-	-	-	-	-	-
LB1740	OS45	0	-	-	-	-	-	-
LB1740	OS46	0	-	-	-	-	-	-
LB1741	OS44	0	-	-	-	-	-	-
LB1741	OS45	0	-	-	-	-	-	-
LB1741	OS46	1	<i>Euchone</i> sp. A ( <i>Euchymene</i> sp. A)	-	-	-	-	-
<b>Total</b>		<b>125</b>	<b>54</b>	<b>0</b>	<b>45</b>	<b>16</b>	<b>2</b>	<b>8</b>
<b>% error</b>		<b>-</b>	<b>43</b>	<b>0</b>	<b>36</b>	<b>13</b>	<b>2</b>	<b>6</b>

**Table 4. Comparison of the estimates of biomass made by the participating laboratories with those made by Thomson Unicmarine Ltd. for the major taxonomic groups present in samples OS44-OS46.**

		Sample OS44								
LabCode		Nemertea	Polychaeta	Oligochaeta	Chelicerata	Crustacea	Echinodermata	Mollusca	Other	Overall
LB1701	PL	0.12659	1.39077	-	-	0.00237	0.00169	0.19354	-	1.71496
	TUM	0.1200	1.2445	-	-	0.0018	0.0026	0.1787	-	1.5476
	%diff.	5.2	10.5	-	-	24.1	-53.8	7.7	-	9.8
LB1702	TUM	-	0.4958	0.0001	-	0.0010	0.4071	0.1210	0.0001	1.0251
	AE	-	0.4709	0.0001	-	0.0010	0.3902	0.1106	0.0001	0.9729
	%diff.	-	5.0	0.0	-	0.0	4.2	8.6	0.0	5.1
LB1703	PL	-	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1704	PL	-	-	-	-	-	-	-	-	0.00000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1705	PL	0.3661	0.6307	-	-	0.0071	0.1694	7.2286	0.0759	8.4778
	TUM	0.3632	0.6983	-	-	0.0090	0.1803	7.6778	0.0743	9.0029
	%diff.	0.8	-10.7	-	-	-26.8	-6.4	-6.2	2.1	-6.2
LB1706	PL	-	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1707	PL	-	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1709	PL	-	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1710	PL	-	1.2788	0.0003	-	0.0030	0.1267	-	-	1.4088
	TUM	-	0.7852	0.0001	-	0.0014	0.0489	-	-	0.8356
	%diff.	-	38.6	66.7	-	53.3	61.4	-	-	40.7
LB1711	PL	-	0.2366	0.0080	-	0.0045	-	0.0050	-	0.2541
	TUM	-	0.1355	0.0036	-	0.0025	-	0.0011	-	0.1427
	%diff.	-	42.7	55.0	-	44.4	-	78.0	-	43.8
LB1712	PL	-	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1713	PL	-	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1714	PL	-	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1715	PL	-	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1717	PL	-	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1718	PL	-	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1719	PL	-	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1720	PL	-	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1722	PL	-	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1724	PL	-	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-

**Table 4. Comparison of the estimates of biomass made by the participating laboratories with those made by Thomson Unicmarine Ltd. for the major taxonomic groups present in samples OS44-OS46.**

		Sample OS44								
LabCode		Nemertea	Polychaeta	Oligochaeta	Chelicerata	Crustacea	Echinodermata	Mollusca	Other	Overall
LB1725	PL	-	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1726	PL	0.0072	1.7281	-	-	0.0122	0.2928	0.0629	0.0131	2.1163
	TUM	0.0020	0.9511	-	-	0.0070	0.1744	0.0494	0.0095	1.1934
	%diff.	72.2	45.0	-	-	42.6	40.4	21.5	27.5	43.6
LB1727	TUM	-	0.0107	-	-	-	0.1309	0.0531	-	0.1947
	AE	-	0.0091	-	-	-	0.1219	0.0492	-	0.1802
	%diff.	-	15.0	-	-	-	6.9	7.3	-	7.4
LB1728	PL	-	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1729	PL	-	0.5186	0.2187	-	0.0704	-	0.0042	-	0.8119
	TUM	-	0.2002	0.1208	-	0.0332	-	0.0035	-	0.3577
	%diff.	-	61.4	44.8	-	52.8	-	16.7	-	55.9
LB1730	TUM	0.0004	0.6002	0.0138	-	0.0012	-	0.0003	0.7104	1.3263
	AE	0.0004	0.6094	0.0138	-	0.0012	-	0.0003	0.7023	1.3274
	%diff.	0.0	-1.5	0.0	-	0.0	-	0.0	1.1	-0.1
LB1731	PL	-	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1732	PL	-	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1733	PL	-	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1734	PL	-	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1735	TUM	-	-	-	-	-	-	-	-	0.0000
	AE	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1736	PL	-	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1737	PL	-	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1738	PL	-	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1739	PL	-	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1740	TUM	-	-	-	-	-	-	-	-	0.0000
	AE	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1741	TUM	-	-	-	-	-	-	-	-	0.0000
	AE	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-

Key: PL - participating laboratory  
TUM - Thomson Unicmarine Ltd.  
AE- Aquatic Environments (External Auditor)  
"- " - No data.

**Table 4. Comparison of the estimates of biomass made by the participating laboratories with those made by Thomson Unicmarine Ltd. for the major taxonomic groups present in samples OS44-OS46.**

LabCode		Sample OS45							Overall	
		Nemertea	Polychaeta	Oligochaeta	Chelicerata	Crustacea	Echinodermata	Mollusca		Other
LB1701	PL	0.00520	0.41499	-	-	0.01276	0.01980	1.31975	0.00131	1.77381
	TUM	0.0052	0.3369	-	-	0.0100	0.0192	1.3716	0.0014	1.7443
	%diff.	0.0	18.8	-	-	21.6	3.0	-3.9	-6.9	1.7
LB1702	TUM	0.0044	6.8331	-	0.0004	0.5076	0.4694	5.5144	0.3551	13.6844
	AE	0.0041	6.8337	-	0.0004	0.5165	0.4644	5.5810	0.3568	13.7569
	%diff.	6.8	0.0	-	0.0	-1.8	1.1	-1.2	-0.5	-0.5
LB1703	PL	-	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1704	PL	-	-	-	-	-	-	-	-	0.00000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1705	PL	-	0.2441	-	-	0.0064	-	0.0026	-	0.2531
	TUM	-	0.2379	-	-	0.0051	-	0.0022	-	0.2452
	%diff.	-	2.5	-	-	20.3	-	15.4	-	3.1
LB1706	PL	-	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1707	PL	-	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1709	PL	-	-	-	-	0.00161	-	0.76596	-	0.76757
	TUM	-	-	-	-	0.0010	-	0.7744	-	0.7754
	%diff.	-	-	-	-	37.9	-	-1.1	-	-1.0
LB1710	PL	-	0.7795	-	-	0.0599	-	-	-	0.8394
	TUM	-	0.4876	-	-	0.0342	-	-	-	0.5218
	%diff.	-	37.4	-	-	42.9	-	-	-	37.8
LB1711	PL	-	0.0270	-	-	0.0219	-	0.3546	-	0.4035
	TUM	-	0.0152	-	-	0.0115	-	0.2774	-	0.3041
	%diff.	-	43.7	-	-	47.5	-	21.8	-	24.6
LB1712	PL	-	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1713	PL	-	0.0021	0.0018	-	0.1500	-	0.5074	-	0.6613
	TUM	-	0.0005	0.0005	-	0.1316	-	0.4932	-	0.6258
	%diff.	-	76.2	72.2	-	12.3	-	2.8	-	5.4
LB1714	PL	-	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1715	PL	-	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1717	PL	0.0005	0.2183	-	-	0.4025	-	0.0021	-	0.6234
	TUM	0.0008	0.2404	-	-	0.3557	-	0.0018	-	0.5987
	%diff.	-60.0	-10.1	-	-	11.6	-	14.3	-	4.0
LB1718	PL	-	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1719	PL	-	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1720	PL	-	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1722	PL	-	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1724	PL	-	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-



**Table 4. Comparison of the estimates of biomass made by the participating laboratories with those made by Thomson Unicmarine Ltd. for the major taxonomic groups present in samples OS44-OS46.**

LabCode		Sample OS45							Overall
		Nemertea	Polychaeta	Oligochaeta	Chelicerata	Crustacea	Echinodermata	Mollusca	
LB1725	PL	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-
LB1726	PL	-	0.0795	-	-	0.0269	0.7441	0.0087	0.8592
	TUM	-	0.0472	-	-	0.0122	0.5267	0.0076	0.5937
	%diff.	-	40.6	-	-	54.6	29.2	12.6	30.9
LB1727	TUM	0.0147	0.0863	-	-	0.0015	0.1678	0.3831	0.6535
	AE	0.0125	0.0925	-	-	0.0013	0.1563	0.3724	0.6351
	%diff.	15.0	-7.2	-	-	13.3	6.9	2.8	2.8
LB1728	PL	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-
LB1729	PL	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-
LB1730	PL	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-
LB1731	PL	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-
LB1732	PL	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-
LB1733	PL	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-
LB1734	PL	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-
LB1735	TUM	-	-	-	-	-	-	-	0.0000
	AE	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-
LB1736	PL	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-
LB1737	PL	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-
LB1738	PL	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-
LB1739	PL	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-
LB1740	TUM	-	-	-	-	-	-	-	0.0000
	AE	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-
LB1741	TUM	-	-	-	-	-	-	-	0.0000
	AE	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-

Key: PL - participating laboratory  
TUM - Thomson Unicmarine Ltd.  
AE- Aquatic Environments (External Auditor)  
"- " - No data.

**Table 4. Comparison of the estimates of biomass made by the participating laboratories with those made by Thomson Unicmarine Ltd. for the major taxonomic groups present in samples OS44-OS46.**

LabCode		Sample OS46							Overall	
		Nemertea	Polychaeta	Oligochaeta	Chelicerata	Crustacea	Echinodermata	Mollusca		Other
LB1701	PL	-	0.73353	-	-	0.00165	0.00052	0.24663	0.15816	1.14049
	TUM	-	0.6081	-	-	0.0015	0.0008	0.2367	0.1326	0.9797
	%diff.	-	17.1	-	-	9.1	-53.8	4.0	16.2	14.1
LB1702	TUM	0.0101	2.7606	0.0076	0.0002	0.1640	0.0135	12.4981	0.0343	15.4884
	AE	0.0091	2.7348	0.0073	0.0002	0.1613	0.0141	12.4447	0.0328	15.4043
	%diff.	9.9	0.9	3.9	0.0	1.6	-4.4	0.4	4.4	0.5
LB1703	PL	-	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1704	PL	-	-	-	-	-	-	-	-	0.00000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1705	PL	-	0.6813	-	-	-	-	0.0460	-	0.72730
	TUM	-	0.5964	-	-	-	-	0.0441	-	0.6405
	%diff.	-	12.5	-	-	-	-	4.1	-	11.9
LB1706	PL	-	-	-	-	-	-	-	-	0.00000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1707	PL	-	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1709	PL	-	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1710	PL	-	0.6864	-	-	0.0403	-	-	-	0.7267
	TUM	-	0.4209	-	-	0.0192	-	-	-	0.4401
	%diff.	-	38.7	-	-	52.4	-	-	-	39.4
LB1711	PL	0.0058	0.0283	-	-	0.0095	-	0.4541	-	0.4977
	TUM	0.0034	0.0162	-	-	0.0060	-	0.3398	-	0.3654
	%diff.	41.4	42.8	-	-	36.8	-	25.2	-	26.6
LB1712	PL	-	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1713	PL	-	0.0313	0.0001	-	-	-	0.0296	0.0001	0.0611
	TUM	-	0.0355	0.0001	-	-	-	0.0332	0.0001	0.0689
	%diff.	-	-13.4	0.0	-	-	-	-12.2	0.0	-12.8
LB1714	PL	-	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1715	PL	-	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1717	PL	0.0201	0.4934	-	-	0.0024	1.3892	0.0292	0.0192	1.9535
	TUM	0.0150	0.3785	-	-	0.0006	1.2874	0.0310	0.0131	1.7256
	%diff.	25.4	23.3	-	-	75.0	7.3	-6.2	31.8	11.7
LB1718	PL	-	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1719	PL	-	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1720	PL	-	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1722	PL	-	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1724	PL	-	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-

**Table 4. Comparison of the estimates of biomass made by the participating laboratories with those made by Thomson Unicmarine Ltd. for the major taxonomic groups present in samples OS44-OS46.**

LabCode		Sample OS46							Overall	
		Nemertea	Polychaeta	Oligochaeta	Chelicerata	Crustacea	Echinodermata	Mollusca		Other
LB1725	PL	-	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1726	PL	-	0.1762	-	-	0.0065	0.3152	1.6885	-	2.1864
	TUM	-	0.1022	-	-	0.0034	0.2490	1.6216	-	1.9762
	%diff.	-	42.0	-	-	47.7	21.0	4.0	-	9.6
LB1727	TUM	-	0.0119	-	-	0.0034	-	0.0720	-	0.0873
	AE	-	0.0103	-	-	0.0030	-	0.0650	-	0.0783
	%diff.	-	13.4	-	-	11.8	-	9.7	-	10.3
LB1728	PL	-	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1729	PL	-	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1730	TUM	0.0960	4.8018	0.0034	-	0.0345	1.0539	28.9595	0.1286	35.0777
	AE	0.0947	4.8393	0.0030	-	0.0357	1.0480	28.1596	0.1299	34.3102
	%diff.	1.4	-0.8	11.8	-	-3.5	0.6	2.8	-1.0	2.2
LB1731	PL	-	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1732	PL	0.0498	0.4495	-	-	0.0024	2.9281	0.6235	0.0267	4.0800
	TUM	0.0448	0.4250	-	-	0.0042	2.7929	0.5854	0.0239	3.8762
	%diff.	10.0	5.5	-	-	-75.0	4.6	6.1	10.5	5.0
LB1733	PL	-	0.0733	0.0002	-	0.0019	-	0.2079	-	0.2833
	TUM	-	0.0689	0.0001	-	0.0025	-	0.1990	-	0.2705
	%diff.	-	6.0	50.0	-	-31.6	-	4.3	-	4.5
LB1734	PL	-	14.5419	0.0107	-	0.0730	-	0.3803	1.0011	16.00700
	TUM	-	7.9995	0.0082	-	0.0136	-	0.3574	0.0395	8.4182
	%diff.	-	45.0	23.4	-	81.4	-	6.0	96.1	47.4
LB1735	TUM	-	-	-	-	-	-	-	-	0.0000
	AE	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1736	PL	-	-	-	-	-	-	-	-	0.00000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1737	PL	-	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1738	PL	-	-	-	-	-	-	-	-	0.00000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1739	PL	-	-	-	-	-	-	-	-	0.0000
	TUM	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1740	TUM	-	-	-	-	-	-	-	-	0.00000
	AE	-	-	-	-	-	-	-	-	0.0000
	%diff.	-	-	-	-	-	-	-	-	-
LB1741	TUM	-	8.9390	0.0127	0.0001	-	-	0.7305	0.0002	9.68251
	AE	-	8.7160	0.0113	0.0001	-	-	0.7029	0.0002	9.4305
	%diff.	-	2.5	11.0	0.0	-	-	3.8	0.0	2.6

Key: PL - participating laboratory  
TUM - Thomson Unicmarine Ltd.  
AE- Aquatic Environments (External Auditor)  
"- " - No data.

**Table 5. Summary of the performance of participating laboratories in the Own Sample (OS) exercises with respect to the NMBAQC/CSEMP standards.**

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
LabCode	Estimation of Taxa						Taxonomic Errors			Estimation of Abundance						Estimation of Biomass			Similarity Index			NMBAQC/NMMP Sample Flag
Lab.	Target	Flag	Missed	% Missed	Remedial Action	Lab.	%	Remedial Action	Lab.	Target	Flag	Missed	% Missed	Remedial Action	Lab.	Target	Flag	Target	Lab.	Flag		
LB1701 OS44	34	30.6 - 37.4	PASS	0	0.0	-	2	5.9	-	173	158.4 - 193.6	PASS	2	1.1	-	1.7150	1.2381 - 1.8571	PASS	90.0	97.42	PASS	Pass-Good
LB1701 OS45	36	31.5 - 38.5	PASS	0	0.0	-	4	11.4	-	172	153.9 - 188.1	PASS	1	0.6	-	1.7738	1.3954 - 2.0932	PASS	90.0	90.96	PASS	Pass-Acceptable
LB1701 OS46	32	30.6 - 37.4	PASS	0	0.0	-	3	8.8	-	340	307.8 - 376.2	PASS	0	0.0	-	1.1405	0.7838 - 1.1756	PASS	90.0	97.65	PASS	Pass-Good
LB1702 OS44	39	36.0 - 44.0	PASS	1	2.5	-	0	0.0	-	147	133.2 - 162.8	PASS	1	0.7	-	1.0251	0.7783 - 1.1675	PASS	90.0	99.67	PASS	Pass-Good
LB1702 OS45	99	89.1 - 108.9	PASS	0	0.0	-	0	0.0	-	4920	4430.7 - 5415.3	PASS	16	0.3	-	#####	11.0055 - 16.5083	PASS	90.0	99.77	PASS	Pass-Good
LB1702 OS46	132	118.8 - 145.2	PASS	0	0.0	-	0	0.0	-	2009	1819.8 - 2224.2	PASS	11	0.5	-	#####	12.3234 - 18.4852	PASS	90.0	99.68	PASS	Pass-Good
LB1703 OS44	41	35.1 - 42.9	PASS	0	0.0	-	5	12.8	Reprocess	214	189.9 - 232.1	PASS	0	0.0	-	-	-	-	90.0	88.94	Fail	Fail-Poor
LB1703 OS45	47	41.4 - 50.6	PASS	0	0.0	-	1	2.2	-	113	100.8 - 123.2	PASS	0	0.0	-	-	-	-	90.0	98.67	PASS	Pass-Good
LB1703 OS46	58	51.3 - 62.7	PASS	0	0.0	-	2	3.5	-	147	134.1 - 163.9	PASS	2	1.3	-	-	-	-	90.0	97.30	PASS	Pass-Good
LB1704 OS44	40	36.9 - 45.1	PASS	1	2.4	-	0	0.0	-	205	188.1 - 229.9	PASS	7	3.3	-	-	-	-	90.0	98.80	PASS	Pass-Good
LB1704 OS45	46	43.2 - 52.8	PASS	2	4.2	-	1	2.2	-	191	175.5 - 214.5	PASS	5	2.6	-	-	-	-	90.0	97.93	PASS	Pass-Good
LB1704 OS46	40	36.0 - 44.0	PASS	1	2.5	-	3	7.7	Review	152	144.9 - 177.1	PASS	9	5.6	Review	-	-	-	90.0	58.79	Fail	Fail-Bad
LB1705 OS44	53	47.7 - 58.3	PASS	0	0.0	-	4	7.5	-	133	118.8 - 145.2	PASS	0	0.0	-	8.4778	7.2023 - 10.8035	PASS	90.0	96.32	PASS	Pass-Good
LB1705 OS45	6	4.0 - 8.0	PASS	0	0.0	-	1	16.7	Review	6	4.0 - 8.0	PASS	0	0.0	-	0.2531	0.1962 - 0.2942	PASS	90.0	83.33	Fail	Fail-Bad
LB1705 OS46	7	6.0 - 10.0	PASS	0	0.0	-	2	25.0	Review	10	8.0 - 12.0	PASS	0	0.0	-	0.7273	0.5124 - 0.7686	PASS	90.0	66.67	Fail	Fail-Bad
LB1706 OS44	48	44.1 - 53.9	PASS	0	0.0	-	2	4.1	-	158	140.4 - 171.6	PASS	1	0.6	-	-	-	-	90.0	95.09	PASS	Pass-Good
LB1706 OS45	35	32.4 - 39.6	PASS	1	2.8	-	0	0.0	-	90	82.8 - 101.2	PASS	2	2.2	-	-	-	-	90.0	98.97	PASS	Pass-Good
LB1706 OS46	36	33.3 - 40.7	PASS	0	0.0	-	2	5.4	-	116	108.0 - 132.0	PASS	5	4.2	-	-	-	-	90.0	94.92	PASS	Pass-Acceptable
LB1707 OS44	9	7.0 - 11.0	PASS	0	0.0	-	0	0.0	-	24	21.6 - 26.4	PASS	0	0.0	-	-	-	-	90.0	100.00	PASS	Pass-Excellent
LB1707 OS45	16	14.0 - 18.0	PASS	0	0.0	-	0	0.0	-	99	89.1 - 108.9	PASS	0	0.0	-	-	-	-	90.0	100.00	PASS	Pass-Excellent
LB1707 OS46	19	17.0 - 21.0	PASS	0	0.0	-	0	0.0	-	60	54.0 - 66.0	PASS	0	0.0	-	-	-	-	90.0	100.00	PASS	Pass-Excellent
LB1708 OS44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	90.0	-	-	-
LB1708 OS45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	90.0	-	-	-
LB1708 OS46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	90.0	-	-	-
LB1709 OS44	6	6.0 - 10.0	PASS	2	25.0	-	0	0.0	-	14	15.0 - 19.0	Fail	3	17.6	-	-	-	-	90.0	90.32	PASS	Pass-Acceptable
LB1709 OS45	4	2.0 - 6.0	PASS	0	0.0	-	0	0.0	-	11	10.0 - 14.0	PASS	1	8.3	-	0.7676	0.6203 - 0.9305	PASS	90.0	95.65	PASS	Pass-Good
LB1709 OS46	19	17.0 - 21.0	PASS	0	0.0	-	0	0.0	-	91	82.8 - 101.2	PASS	2	2.2	-	-	-	-	90.0	98.36	PASS	Pass-Good
LB1710 OS44	13	10.0 - 14.0	PASS	0	0.0	-	1	8.3	-	46	42.3 - 51.7	PASS	1	2.1	-	1.4088	0.6685 - 1.0027	Fail	90.0	96.84	PASS	Pass-Good
LB1710 OS45	15	14.0 - 18.0	PASS	1	6.3	Review	4	26.7	Reprocess	39	36.0 - 44.0	PASS	1	2.5	-	0.8394	0.4174 - 0.6262	Fail	90.0	81.48	Fail	Fail-Bad
LB1710 OS46	12	11.0 - 15.0	PASS	0	0.0	-	2	15.4	Review	30	28.8 - 35.2	PASS	2	6.3	Review	0.7267	0.3521 - 0.5281	Fail	90.0	83.33	Fail	Fail-Bad
LB1711 OS44	11	8.0 - 12.0	PASS	0	0.0	-	1	10.0	-	83	79.2 - 96.8	PASS	2	2.3	-	0.2541	0.1142 - 0.1712	Fail	90.0	93.57	PASS	Pass-Acceptable
LB1711 OS45	6	4.0 - 8.0	PASS	0	0.0	-	0	0.0	-	20	18.9 - 23.1	PASS	1	4.8	-	0.4035	0.2433 - 0.3649	Fail	90.0	97.56	PASS	Pass-Good
LB1711 OS46	9	8.0 - 12.0	PASS	1	10.0	-	0	0.0	-	25	23.4 - 28.6	PASS	1	3.8	-	0.4977	0.2923 - 0.4385	Fail	90.0	98.04	PASS	Pass-Good
LB1712 OS44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	90.0	-	-	-
LB1712 OS45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	90.0	-	-	-
LB1712 OS46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	90.0	-	-	-
LB1713 OS44	44	39.6 - 48.4	PASS	0	0.0	-	1	2.3	-	311	276.3 - 337.7	PASS	0	0.0	-	-	-	-	90.0	98.38	PASS	Pass-Good
LB1713 OS45	4	2.0 - 6.0	PASS	0	0.0	-	0	0.0	-	84	75.6 - 92.4	PASS	0	0.0	-	0.6613	0.5006 - 0.7510	PASS	90.0	100.00	PASS	Pass-Excellent
LB1713 OS46	9	7.0 - 11.0	PASS	0	0.0	-	0	0.0	-	9	7.0 - 11.0	PASS	0	0.0	-	0.0611	0.0551 - 0.0827	PASS	90.0	100.00	PASS	Pass-Excellent
LB1714 OS44	67	61.2 - 74.8	PASS	1	1.5	-	1	1.5	-	177	172.8 - 211.2	PASS	15	7.8	-	-	-	-	90.0	95.44	PASS	Pass-Good
LB1714 OS45	50	45.9 - 56.1	PASS	0	0.0	-	4	7.8	Review	140	143.1 - 174.9	Fail	16	10.1	Reprocess	-	-	-	90.0	89.77	Fail	Fail-Poor
LB1714 OS46	55	50.4 - 61.6	PASS	0	0.0	-	1	1.8	-	170	158.4 - 193.6	PASS	3	1.7	-	-	-	-	90.0	97.71	PASS	Pass-Good
LB1715 OS44	29	26.1 - 31.9	PASS	0	0.0	-	0	0.0	-	354	318.6 - 389.4	PASS	0	0.0	-	-	-	-	90.0	100.00	PASS	Pass-Excellent
LB1715 OS45	18	16.0 - 20.0	PASS	0	0.0	-	0	0.0	-	191	171.9 - 210.1	PASS	0	0.0	-	-	-	-	90.0	100.00	PASS	Pass-Excellent
LB1715 OS46	14	12.0 - 16.0	PASS	0	0.0	-	0	0.0	-	518	466.2 - 569.8	PASS	0	0.0	-	-	-	-	90.0	100.00	PASS	Pass-Excellent
LB1716 OS44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	90.0	-	-	-
LB1716 OS45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	90.0	-	-	-
LB1716 OS46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	90.0	-	-	-
LB1717 OS44	106	97.2 - 118.8	PASS	0	0.0	-	4	3.7	-	951	858.6 - 1049.4	PASS	5	0.5	-	-	-	-	90.0	97.27	PASS	Pass-Good
LB1717 OS45	9	7.0 - 11.0	PASS	0	0.0	-	0	0.0	-	21	18.9 - 23.1	PASS	0	0.0	-	0.6234	0.4790 - 0.7184	PASS	90.0	100.00	PASS	Pass-Excellent
LB1717 OS46	30	27.9 - 34.1	PASS	0	0.0	-	1	3.2	-	157	141.3 - 172.7	PASS	0	0.0	-	1.9535	1.3805 - 2.0707	PASS	90.0	99.08	PASS	Pass-Good
LB1718 OS44	3	1.0 - 5.0	PASS	0	0.0	-	0	0.0	-	3	1.0 - 5.0	PASS	0	0.0	-	-	-	-	90.0	100.00	PASS	Pass-Excellent
LB1718 OS45	4	2.0 - 6.0	PASS	0	0.0	-	0	0.0	-	409	375.3 - 458.7	PASS	0	0.0	-	-	-	-	90.0	99.03	PASS	Pass-Good
LB1718 OS46	16	14.0 - 18.0	PASS	0	0.0	-	3	18.8	-	29	26.1 - 31.9	PASS	0	0.0	-	-	-	-	90.0	90.00	PASS	Pass-Acceptable



**Table 5. Summary of the performance of participating laboratories in the Own Sample (OS) exercises with respect to the NMBAQC/CSEMP standards.**

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
LabCode	Estimation of Taxa						Taxonomic Errors			Estimation of Abundance						Estimation of Biomass			Similarity Index			NMBAQCS/NMMP Sample Flag
	Lab.	Target	Flag	Missed	% Missed	Remedial Action	Lab.	%	Remedial Action	Lab.	Target	Flag	Missed	% Missed	Remedial Action	Lab.	Target	Flag	Target	Lab.	Flag	
LB1738 OS44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	90.0	-	-	-
LB1738 OS45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	90.0	-	-	-
LB1738 OS46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	90.0	-	-	-
LB1739 OS44	14	15.0 - 19.0	Fail	1	5.9	-	2	12.5	-	84	74.7 - 91.3	PASS	0	0.0	-	-	-	-	90.0	94.80	PASS	Pass-Acceptable
LB1739 OS45	73	67.5 - 82.5	PASS	1	1.3	-	7	9.5	-	2448	2164.5 - 2645.5	PASS	41	1.7	-	-	-	-	90.0	98.40	PASS	Pass-Good
LB1739 OS46	4	2.0 - 6.0	PASS	0	0.0	-	0	0.0	-	44	39.6 - 48.4	PASS	0	0.0	-	-	-	-	90.0	97.73	PASS	Pass-Good
LB1740 OS44	7	5.0 - 9.0	PASS	0	0.0	-	0	0.0	-	106	94.5 - 115.5	PASS	0	0.0	-	-	-	-	90.0	99.53	PASS	Pass-Good
LB1740 OS45	64	57.6 - 70.4	PASS	0	0.0	-	0	0.0	-	1531	1377.0 - 1683.0	PASS	0	0.0	-	-	-	-	90.0	99.51	PASS	Pass-Good
LB1740 OS46	60	54.0 - 66.0	PASS	0	0.0	-	0	0.0	-	798	719.1 - 878.9	PASS	1	0.1	-	-	-	-	90.0	99.56	PASS	Pass-Good
LB1741 OS44	13	11.0 - 15.0	PASS	0	0.0	-	0	0.0	-	130	117.0 - 143.0	PASS	0	0.0	-	-	-	-	90.0	100.00	PASS	Pass-Excellent
LB1741 OS45	56	50.4 - 61.6	PASS	0	0.0	-	0	0.0	-	221	198.9 - 243.1	PASS	0	0.0	-	-	-	-	90.0	100.00	PASS	Pass-Excellent
LB1741 OS46	28	25.2 - 30.8	PASS	0	0.0	-	1	3.6	-	2305	2075.4 - 2536.6	PASS	2	0.1	-	9.6825	7.5444 - 11.3166	PASS	90.0	67.51	Fail	Fail-Bad

Table 6. Comparison of the overall performance of laboratories in the Own Sample exercises from 1995/96 to 2010/11 with respect to the NMBAQC / CSEMP standards. Initial OS results excluding remedial action.

Scheme Year	Exercise	Pass (>90% BCSI)	Fail (<90% BCSI)	% Pass
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
	In Total	742	169	81

Key: \* - Own Samples selected from completed data matrices, *i.e.* 'blind audits'  
 BCSI - Bray Curtis similarity index (untransformed)

Table 7. Comparison of each laboratory's performance in the Own Sample exercises from Scheme year 02 (1995/96) to Scheme year 17 (2010/11). Only participants subscribing to the Yr17 OS Component shown.

LabCode	Scheme Year 2			Scheme Year 3			Scheme Year 4			Scheme Year 5			Scheme Year 6			Scheme Year 7			Scheme Year 8			Scheme Year 9		
	OS01	OS02	OS03	OS04	OS05	OS06	OS07	OS08	OS09	OS10	OS11	OS12	OS13	OS14	OS15	OS16	OS17	OS18	OS19	OS20	OS21	OS22		
LB1701	-	-	-	-	89.9	-	-	-	-	-	95.8	49.56	67.28	72.73	89.52	70.87	55.86	71.28	90.77	72.58	98.56	99.61		
LB1702	97.94	-	92.08	-	74.34	94.64	96.43	71.03	96.48	99.17	98.32	97.65	96.3	96.67	98.21	96.96	92.41	96.74	89.86	98.54	98.2	99.54		
LB1703	-	-	-	-	95.75	92.56	96.37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
LB1704	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	88.89	43.32	83.72	
LB1705	97.91	96.3	85.8	89.82	75.29	95.44	74.89	73.3	97.33	93.01	73.02	99.5	90.5	93.13	94.57	90.32	96.67	94.12	90.39	94.27	96.43	96.77		
LB1706	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
LB1707	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	92.68	91.36	93.63	98.66	96.44	92.46		
LB1709	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
LB1710	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
LB1711	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
LB1712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
LB1713	-	-	-	-	-	-	-	95.08	53.66	60.42	-	-	-	-	-	-	84.32	100	80.31	-	-	-		
LB1714	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
LB1715	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
LB1717	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
LB1718	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
LB1719	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
LB1720	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
LB1722	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
LB1724	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
LB1725	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
LB1726	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
LB1727	-	-	-	-	60	62.5	83.82	87.5	93.5	94.12	74.21	76.6	70.98	74.02	81.74	78.47	78.95	90.36	100	70.25	94.68	78.57		
LB1728	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
LB1729	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
LB1730	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
LB1731	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
LB1732	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
LB1733	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
LB1734	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
LB1735	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
LB1736	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
LB1737	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
LB1738	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	96.89	72.07	56.22	-	-	-		
LB1739	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
LB1740	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
LB1741	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

Key: Yellow shaded cells = 'Fail' flag; no record of subsequent remedial action.  
 Green shaded cells = Remedial action successfully completed.  
 Pink shaded cells = Data changed following external review.  
 Red text = no sample residue supplied (excluded from statistics).  
 "(data)"= Remedial action Extra Own Sample data due to initial non-submission (excluded from statistics).  
 - = no data / not participating.



Table 7. Comparison of each laboratory's performance in the Own Sample exercises from Scheme year 02 (1995/96) to Scheme year 17 (2010/11). Only participants subscribing to the Yr17 OS Component shown.

LabCode	Scheme Year 10			Scheme Year 11			Scheme Year 12			Scheme Year 13			Scheme Year 14			Scheme Year 15			Scheme Year 16			Scheme Year 17		
	OS23	OS24	OS25	OS26	OS27	OS28	OS29	OS30	OS31	OS32	OS33	OS34	OS35	OS36	OS37	OS38	OS39	OS40	OS41	OS42	OS43	OS44	OS45	OS46
LB1701	95.89	95.82	97.62	100	98.9	98.52	100	95.86	98.85	90.1	86	90.1	98.59	96.58	99.6	-	-	-	76.98	99.22	92.03	97.42	90.96	97.65
LB1702	99.6	97.85	98.86	99.46	100	97.33	99.26	99.65	99.91	99.59	99.28	100	99.9	99.59	99.37	99.51	99.66	99.46	98.65	99.27	100.00	99.67	99.77	99.68
LB1703	-	-	-	98.21	96.45	90.77	49.37	96.54	96.32	100	90	80	95	98.54	96.55	100.00	96.05	92.99	99.64	97.75	92.45	88.94	98.67	97.30
LB1704	99	94.6	85.11	94.74	95.89	96.43	99.19	95.89	96.3	98.1	97.9	87.5	100	86.2	96.34	99.62	99.64	99.68	96.55	100.00	95.78	98.80	97.93	58.79
LB1705	83.74	90.72	96.77	100	96.42	94.55	96.97	85.11	90.72	98	98.6	88.9	91.93	86.56	69.17	86.40	88.06	82.99	47.06	88.89	100.00	96.32	83.33	66.67
LB1706	-	-	-	-	-	-	-	-	-	-	-	-	n/d	n/d	n/d	n/a	n/a	n/a	96.11	80.71	94.51	95.09	98.97	94.92
LB1707	100	98.46	98	99.45	95.08	100	99.25	98.63	100	96.3	94.7	93.2	100	100	97.37	93.86	99.55	87.87	99.60	99.62	98.93	100.00	100.00	100.00
LB1709	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	94.97	94.92	98.67	90.32	95.65	98.36
LB1710	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	96.84	81.48	88.89
LB1711	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	87.74	89.80	94.821	93.57	97.56	98.04
LB1712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	85.27	81.98	75.00	100.00	95.31	88.89	-	-	-
LB1713	93.7	83.94	91.23	-	-	-	99.35	95.65	97.87	98.2	96.7	99	99.15	100	98.28	94.08	99.35	88.00	100.00	100.00	98.63	98.38	100.00	100.00
LB1714	-	-	-	-	-	-	-	-	-	-	-	-	94.56	96.99	91.72	96.34	95.14	95.10	80.21	92.74	87.94	95.44	89.77	97.71
LB1715	-	-	-	-	-	-	100	97.97	100	97.5	100	100	-	-	-	99.75	99.84	100.00	n/a	n/a	n/a	100.00	100.00	100.00
LB1717	-	-	-	90.22	90.00	93.85	98.59	97.93	98.94	97	98.7	97.5	84.34	16.67	96.69	100.00	98.81	99.01	95.65	98.67	93.55	97.27	100.00	99.08
LB1718	-	-	-	-	-	-	-	-	-	-	-	-	66.67	99.35	81.34	97.00	71.55	97.70	86.96	99.45	100.00	100.00	99.03	90.00
LB1719	-	-	-	-	-	-	-	-	-	-	-	-	96.86	96.55	89.82	88.74	95.79	70.42	84.65	93.53	97.30	99.80	96.67	98.15
LB1720	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	n/a	n/a	n/a	65.12	35.36	43.36
LB1722	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LB1724	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	90.23	86.96	87.81	86.13	94.80	89.50	93.70	97.60	95.60
LB1725	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	98.57	96.88	93.10
LB1726	-	-	-	-	-	-	(99.2)	(98.7)	(98.7)	97.5	100	96.7	99.2	100	100	98.26	94.83	96.05	95.94	92.15	93.95	81.08	100.00	98.82
LB1727	98.11	100	100	100	100	96.3	100	80.00	100	96.07	100	100	97.41	93.33	100	94.96	100	98.63	100.00	95.83	100.00	100.00	97.30	100.00
LB1728	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	72.82	53.60	69.32	77.74	52.56	50.00	-	-	-
LB1729	-	-	-	-	-	-	-	-	-	99.73	99.59	100	99.67	98.86	99.84	92.01	97.22	100.00	98.71	97.73	91.68	99.11	98.66	99.25
LB1730	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	99.58	99.70	99.87
LB1731	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	99.19	98.54	98.91
LB1732	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	96.27	96.45	98.52
LB1733	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	95.83	96.97	100.00
LB1734	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100.00	96.01	98.37
LB1735	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	99.70	99.77	99.77
LB1736	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	99.81	100.00	99.44
LB1737	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	90.74	78.38	97.44	95.96	90.49	97.11	95.72	82.22	86.60
LB1738	-	-	-	-	-	-	-	-	-	97.9	93.4	93.8	100	98.04	97.61	95.52	91.97	88.50	-	-	-	n/p	n/p	n/p
LB1739	-	-	-	-	-	-	-	-	-	-	-	-	98.69	96.53	96.34	99.70	95.29	92.09	100.00	97.53	92.95	94.80	98.40	97.73
LB1740	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	99.53	99.51	99.56
LB1741	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100.00	100.00	67.51

Key: Yellow shaded cells = 'Fail' flag; no record of subsequent remedial action.

Green shaded cells = Remedial action successfully completed.

Pink shaded cells = Data changed following external review.

Red text = no sample residue supplied (excluded from statistics).

"(data)"= Remedial action Extra Own Sample data due to initial non-submission (excluded from statistics).

- = no data / not participating.