Supplementary Material on the Methodology Part III

Eel quality classes, reference values and boundary values of the quality classes for a series of heavy metals, PCB congeners and organochlorine pesticides

Table 1. Reference values and boundary values of the quality classes for a series of heavy metals, PCB congeners and organochlorine pesticides as defined in Flanders' Eel Pollution Monitoring Network (EPMN)

Quality classes		1	2	3	4
Contaminant	Reference value (RV)	Not deviating log C/RV < 0.4	Slightly deviating 0.4 ≤ log C/RV < 0.8	Deviating 0.8 ≤ log C/RV < 1.2	Strongly deviating log C/RV ≥ 1.2
Mercury	40	< 100	100 - < 252	252 - < 634	≥ 634
Cadmium	2	< 5	5 - < 12.6	12.6 - < 31.7	≥ 31.7
Lead	10	< 25	25 - < 63	63 - < 158	≥ 158
Cupper[2]	0.25	< 0.6	0.6 - < 1.6	1.6 - < 4	≥ 4
Zinc[2]	14	< 35	35 - < 88	88 - < 222	≥ 222
Nickel	14	< 35	35 - < 88	88 - < 222	≥ 222
Chrome	96	< 241	241 - < 606	606 - < 1521	≥ 1521
Arsenic	41	< 103	103 - < 259	259 - < 650	≥ 650
Selenium	205	< 515	515 - < 1293	1293 - < 3249	≥ 3249
PCB 28	0.12	< 0.3	0.3 - < 0.8	0.8 - < 1.9	≥ 1.9
PCB 31	0.1	< 0.3	0.3 - < 0.6	0.6 - < 1.6	≥ 1.6
PCB 28+31	0.25	< 0.6	0.6 - < 1.6	1.6 - < 4	≥ 4
PCB 52	1	< 2.5	2.5 - < 6.3	6.3 - < 15.8	≥ 15.8
PCB 101	2.5	< 6	6 - < 16	16 - < 40	≥ 40
PCB 105	1.2	< 3	3 - < 7.6	7.6 - < 19	≥ 19
PCB 118	3.5	< 9	9 - < 22	22 - < 55	≥ 55
PCB 138	7.7	< 19	19 - < 49	49 - < 122	≥ 122
PCB 153	10	< 25	25 - < 63	63 - < 158	≥ 158
PCB 156	0.6	< 1.5	1.5 - < 3.8	3.8 - < 9.5	≥ 9.5
PCB 180	4.5	< 11	11 - < 28	28 - < 71	≥ 71
∑ PCBs	29	< 73	73 - < 183	183 - < 460	≥ 460
∑ PCBs[1]	240	< 603	603 - < 1514	1514 - < 3804	≥ 3804
α-HCH	0.05	< 0.1	0.1 - < 0.3	0.3 - < 0.8	≥ 0.8
γ-HCH	1.3	< 3.3	3.3 - < 8.2	8.2 - < 20.6	≥ 20.6
Dieldrin	1.1	< 2.8	2.8 - < 6.9	6.9 - < 17.4	≥ 17.4
HCB	0.5	< 1.3	1.3 - < 3.2	3.2 - < 7.9	≥ 7.9
p.p'-DDD	2.5	< 6	6 - < 16	16 - < 40	≥ 40
p.p'-DDT	0.005	< 0.01	0.01 - < 0.03	0.03 - < 0.08	≥ 0.08
p.p'-DDE	13	< 33	33 - < 82	82 - < 206	≥ 206
∑ DDTs	16	< 40	40 - < 101	101 - < 254	≥ 254

Notes: Values are expressed in ng/g wet weight of muscle tissue, unless indicated as [1] in ng/g lipid weight or [2] in µg/g wet weight of muscle tissue.

C: concentration; ∑ PCB is indicated for the 7 PCBs indicators (adapted from Belpaire and Goemans, 2007)

Reference

Belpaire, C. & Goemans, G. 2007. Eels: Contaminant cocktails pinpointing environmental contamination. *ICES Journal of Marine Science*, 64(7): 1423–1436.