

Sediment Quality Criteria for the classification of Sediments ¹

Contaminant	Lower Chemical Exceedance Level (LCEL)	Upper Chemical Exceedance Level (UCEL)
Metals (<i>mg/kg dry weight</i>)		
Cadmium (Cd)	1.5	4
Chromium (Cr)	80	160
Copper (Cu)	65	110
Mercury (Hg)	0.5	1
Nickel (Ni) ²	40	40
Lead (Pb)	75	110
Silver (Ag)	1	2
Zinc (Zn)	200	270
Metalloid (<i>mg/kg dry weight</i>)		
Arsenic (As)	12	42
Organic-PAHs (<i>µg/kg dry weight</i>)		
Low Molecular Weight PAHs ³	550	3160
High Molecular Weight PAHs ⁴	1700	9600
Organic-non-PAHs (<i>µg/kg dry weight</i>)		
Total PCBs	23	180
Organometallics (<i>mg TBT/L in Interstitial water</i>)		
Tributyltin ²	0.15	0.15

Footnote: 1. The table is extracted from Appendix A of ETWB (W) No. 34/2002 Management of Dredged / Excavated Sediment (<http://www.etwb.gov.hk>).

2. When the LCEL and UCEL for a contaminant are the same, the contaminant level is considered to have exceeded UCEL if it is greater than the value shown.

3. Low molecular weight PAHs include acenaphthene, acenaphthylene, anthracene, fluorene, naphthalene, and phenanthrene.

4. High molecular weight PAHs include benzo[a]anthracene, benzo[a]pyrene, chrysene, dibenzo[a,h]anthracene, fluoranthene, pyrene, benzo[b]fluoranthene, benzo[k]fluoranthene, indeno[1,2,3-c,d]pyrene and benzo[g,h,i]perylene.

5. Total PCBs include 18 congeners: PCB 8, 18, 28, 44, 52, 66, 77, 101, 105, 118, 126, 128, 138, 153, 169, 170, 180, 187.