**Table S1:** PCB total concentration and congeners distribution of the sediment samples used in this study. Values are the mean (± SD) of replicate analysis on three sediment subsamples.

| Sediment | Total PCB concentration (mg PCBs (kg dry sediment)) | Di- and tri-chlorinated congeners (wt %) | Tetra- and penta-chlorinated congeners (wt %) | Hexa- and hepta-chlorinated congeners (wt %) | Octa- and nona-chlorinated congeners (wt %) |
|-----------|---------------------------------------------------|----------------------------------------|---------------------------------------------|--------------------------------------------|------------------------------------------|
| A         | 0.4 ± 0.1                                         | 0.26%                                  | 28.08%                                      | 5.02%                                      | 66.64%                                   |
| B         | 1.5 ± 0.8                                         | 0.00%                                  | 0.75%                                       | 5.96%                                      | 93.29%                                   |
| C         | 1.3 ± 0.2                                         | 0.02%                                  | 1.52%                                       | 3.13%                                      | 95.33%                                   |
| D         | 3.3 ± 2.8                                         | 0.00%                                  | 0.91%                                       | 27.27%                                     | 71.81%                                   |
| E         | 0.6 ± 0.1                                         | 0.00%                                  | 3.00%                                       | 6.66%                                      | 90.34%                                   |
| F         | 0.2 ± 0.0                                         | 0.00%                                  | 5.11%                                       | 10.36%                                     | 84.54%                                   |