Supp Table 1. Dioxin adsorption during transport experiments. Adsorption was measured by rinsing the systems with hexane and measurement with GC-HRMS.

| Congeners        | Adsorption in various compartments (%) | Total adsorption (%) |
|------------------|----------------------------------------|----------------------|
|                  | Chip (AP) | TW (BL) | Chip (AP) | TW (BL) |
| 2,3,7,8-TCDF     | 5.40      | 0.57    | 5.08      | 0.37    | 5.97   | 5.45   |
| 1,2,3,7,8-PeCDF  | 3.50      | 0.44    | 2.86      | 0.17    | 3.94   | 3.03   |
| 2,3,4,7,8-PeCDF  | 3.88      | 0.52    | 3.95      | 0.11    | 4.40   | 4.06   |
| 1,2,3,4,7,8-HxCDF| 4.03      | 0.42    | 3.46      | 0.05    | 4.45   | 3.50   |
| 1,2,3,6,7,8-HxCDF| 1.87      | 0.37    | 1.94      | 0.05    | 2.24   | 1.98   |
| 2,3,4,6,7,8-HxCDF| 2.20      | 0.37    | 2.38      | 0.05    | 2.57   | 2.44   |
| 1,2,3,7,8,9-HxCDF| 3.43      | 0.40    | 3.08      | 0.06    | 3.84   | 3.14   |
| 1,2,3,4,6,7,8-HpCDF| 1.42   | 0.36    | 1.18      | 0.06    | 1.78   | 1.24   |
| 1,2,3,4,7,8,9-HpCDF| 3.00   | 0.39    | 2.60      | 0.04    | 3.38   | 2.64   |
| OCDF             | 2.57      | 0.40    | 1.29      | 0.11    | 2.97   | 1.39   |
| 2,3,7,8-TCDD     | 7.23      | 0.67    | 4.91      | 0.40    | 7.90   | 5.31   |
| 1,2,3,7,8-PeCDD  | 4.21      | 0.52    | 3.62      | 0.14    | 4.74   | 3.76   |
| 1,2,3,4,7,8-HxCDD| 4.18      | 0.43    | 3.86      | 0.06    | 4.61   | 3.91   |
| 1,2,3,6,7,8-HxCDD| 1.61      | 0.34    | 1.72      | 0.06    | 1.95   | 1.79   |
| 1,2,3,7,8,9-HxCDD| 1.72      | 0.31    | 1.65      | 0.05    | 2.03   | 1.71   |
| 1,2,3,4,6,7,8-HpCDD| 2.56  | 0.43    | 2.12      | 0.05    | 3.00   | 2.18   |
| OCDD             | 2.78      | 0.82    | 1.34      | 0.18    | 3.60   | 1.52   |