

Asumptions **BEST CASE from SCHER Annex 2, but adjusted for efficiency of separator.**

Remark

0.001 microg/L Concentration in effl Better case concentration in effluent
 0.64 g Hg/dentist/y
 3 dentists/10 000 inh.
 80.1 % 90 percentage amalgam separators * 89% efficiency. Hylander et al 2006

Assume all Hg comes from dental amalgam
 taken from BIOIS report 2012 (calculated from total Hg use divided times the number of dentists)
 Average (BioIS 2012)

	Hg, inorganic	dentists/10 000 inh.	input WWTP	mercury	water	Hg inflow	% in water	Hg outflow	Dilution	Hg river	
	g Hg/dentist/y		g/y	mg/d (260 d/y)	L/pers/d	mg/L	TGD	microg/L	Standard	microg/L	ng/L
mean	0.12736	3	0.38208	1.469538462	200	7.35E-07	10	7.34769E-05	10	7.34769E-06	0.007347692
								0.001	10	0.0001	0.1

	MeHg	dentists/10 000 inh.	input WWTP	Hg	water	Hg inflow	% water	Hg outflow	Dilution	Hg river		BAF	Hg fish
	g/dentist/y		g/y	mg/d	L/pers/d	mg/L		microg/L		microg/L	ng/L		microg/kg
mean	0.00000013	3	3.8208E-07	1.46954E-06	200	7.35E-13	10	7.34769E-11	10	7.34769E-12	7.34769E-09	3645423	2.68E-05

% methylation field BAF fish

0.0001	21700
0.001	100,000
0.01	1,600,000
0.1	6,800,000
1	33,000
2	120,000
5	680,000
	2,700,000
	705,478.561
	2,000,000
	2,000,000
	6,284,902.545

input value by SCHER

assumption by SCHER

Point adressed by EEB/WAMFD/MPP

7.34769E-12	7.34769E-09	2.68E-05	0.0001% methylation rate
7.34769E-11	7.34769E-08	0.000268	0.001% methylation rate
7.34769E-10	7.34769E-07	0.002679	0.01% methylation rate
7.34769E-09	7.34769E-06	0.026785	0.1% methylation rate
7.34769E-08	7.34769E-05	0.267854	1% methylation rate
1.46954E-07	0.000146954	0.535709	2% methylation rate
3.67385E-07	0.000367385	1.339272	5% methylation rate