

Table 1: Comparison of PCDD/F concentrations in tissues, porewater and sediments with quality guidelines.

Agency	Reference	Concern	Guideline (pg TEQ /g dw)	% of samples exceeding guidelines
1- Tissue no effect concentration (pg TEQ/g lipid)				
	[37]	Protection of 99 % of fish species	57	100 %
		Protection of 90 % of fish species	699	95 %
2- Water ambient quality guidelines (pg TEQ/L) used for deriving tissue screening concentration				
Minnesota Pollution Control Agency	[35]	Protection of fish	0.0014	100 % > TSC _W , TSC _{PW}
New York State Department of Environmental Conservation	[36]	Protection of fish	0.07	100 % > TSC _W , TSC _{PW}
3- Sediment quality guidelines (pg TEQ/g dw) used for deriving tissue screening concentration				
USEPA	[34]	protection of fish	low risk: 60	100 % > TSC _S
USEPA			high risk: 100	100 % > TSC _S
4- Sediment quality guidelines (pg TEQ/g dw) used for the risk characterization of the benthic species				
Environment Canada	[33]	protection of the benthic species	ISQG: 0.85 ^a	100%
			PEL: 21.5 ^a	86%
5- Equilibrium partitioning sediment quality benchmark (pg TEQ/g OC)				
	[31]	protection of the benthic species	299	91 %
6- Porewater toxic unit				
	[32]	protection of the benthic species	< 1	77 %