

Annex A Concentration of Interest for Contaminants of Potential Concern

COPC	COI for human health (µg/L)	Source	COI for ecological resources (µg/L)	Source	Detection Limit in Chemical Analysis (µg/L)
Total residual chloride	4,000	A	8	D	20
Chloroform	0.17	B	12	E	5
Bromodichloromethane	0.18	B	22	F	5
Dibromochloromethane	0.13	B	34	F	5
Bromoform	8.5	B	360	F	5
Chloroacetic acid	73	B	32,000	G	2
Bromoacetic acid	Not selected as COC as no toxicity data available		1,600	G	2
Dibromoacetic acid	COI not available		680	G	2
Dichloroacetic acid	20	C	230	G	2
Trichloroacetic acid	50	C	93,000	G	2
Methylene chloride	200	C	1,580	F	20
Carbon tetrachloride	5	A	25	H	0.5
Chlorobenzene	100	A	25	I	0.5
1,1-dichloroethane	810	B	Not selected as COC as no toxicity data available		0.5
1,2-dichloroethane	5	A	10	E	0.5
1,1-dichloroethylene	7	A	3.2	F	0.5
1,2-dichloropropane	5	A	610	G	0.5
Tetrachloroethylene	5	A	8.85	F	0.5
1,1,1-trichloroethane	200	A	100	E	0.5
1,1,2-trichloroethane	5	A	100	E	0.5
Trichloroethylene	5	A	10	E	0.5
2-chlorophenol	30	B	50	E	0.5
2,4-dichlorophenol	110	B	20	E	0.5
p-chloro-m-cresol	Not selected as COC as no toxicity data available		40	E	0.5
Pentachlorophenol	1	A	7.9	J	2.5
2,4,6-trichlorophenol	3.6	B	12.1	G	0.5
Bis(2-chloroethoxy)methane	Not selected as COC as no toxicity data available		1,840	G	0.5
1,4-dichlorobenzene	75	A	74	G	0.5
Hexachlorobenzene	10	A	0.03	E	0.5
Hexachlorocyclopentadiene	50	A	9	G	2.5
Hexachloroethane	4.8	B	24	G	0.5
1,2,4-trichlorobenzene	70	A	5.4	I	0.5
Alpha-benzene hexachloride	0.01	B	5	G	0.5
Beta-benzene hexachloride	0.04	B	0.046	F	1
Gamma-benzene hexachloride	0.2	A	0.063	F	1

Note: Bold values denote detection limit exceeds the COI.

Source: A) USEPA (2004) Edition of the Drinking Water Standards and Health Advisories

B) USEPA Region IX: Preliminary Remediation Goals, available online: www.epa.gov/region09/waste/sfund/prg

C) WHO (2004). Guidelines for Drinking-water Quality, Third Edition

D) CDM (2002). Report on Community Consultation for the Proposed Water Quality Criteria.

E) WRc Swindon (1999). Guidelines for Managing Water Quality Impacts within UK European Marine Sites.

F) USEPA Water Quality Criteria. Available online: www.epa.gov/waterscience/standards/states

G) Derived toxicity reference value for aquatic life.

H) ANZECC (2000). Australian and New Zealand Guidelines for Fresh and Marine Water Quality.

I) CCME (2005). Canadian Water Quality Guidelines for the Protection of Aquatic Life

J) USEPA (2004). National Recommended Water Quality Criteria.