

Table S3: Historical Regulatory Revisions of Chemical Contaminants [23]

SDWA Chemical Contaminant	Initial standard (year)	MCL (year)	MCLG (current)	PQL (current)	Notes
2,4,5-TP	0.01 mg/L (1975); Proposed MCL = MCLG = 0.05 mg/L (1989)	0.05 mg/L (1992)	0.05 mg/L	0.05 mg/L	Value of standard increased between 1975 and 1989. 1989 value adopted in 1992. Not identified as possibly subject to a toxicological review.
2,4-D	0.1 mg/L (1975)	0.07 mg/L (1991)	0.07 mg/L	0.05 mg/L	Not identified as possibly subject to a toxicological review.
Arsenic	NIPDWR: 0.05 mg/L	0.01 mg/L (2001)	zero	0.03 mg/L	Regulation lowered from 0.05 to 0.01 mg/L on account of growing body of evidence suggesting old standard was inadequate to protect health. Note that reg > PQL. Question of cost/benefit.
Barium	USPHS: 1.0 mg/L (1962) NIPDWR: 1.0 mg/L; Proposed MCL = MCLG = 5 mg/L (1989);	2 mg/L (1991)	2 mg/L	0.15 mg/L	Value of standard has increased since 1962. Not identified as possibly subject to a toxicological review.
Cadmium	0.01 mg/L (1975)	0.005 mg/L (1991)	0.005 mg/L	0.002 mg/L	Standard lowered, but this followed a revision to the concentration considered to be protective of public health, not a significant improvement in detection ability
Chromium	0.05 mg/L (1975)	0.1 mg/L (1991)	0.1 mg/L	0.1 mg/L	Value of standard has increased .
Endrin	0.0002 mg/L (1975)	0.002 mg/L	0.002 mg/L	0.0001 mg/L	Value of standard has increased .
Fluoride	1.4 to 2.4 mg/L (1975)	4 (1986)	4	0.5 mg/L	Standards have been decided upon based on various health studies with variable importance being ascribed to sensitive populations and "cosmetic" impacts. Value of standard has
Lead	0.05 mg/L (1975)	(Treatment technology)	zero	0.005 mg/L	Lead regulation has changed from a maximum concentration to a mandatory removal efficiency
Lindane	0.004 mg/L (1975)	0.0002 mg/L	0.0002 mg/L	0.0002 mg/L	Value of standard has decreased . No information found tying re-regulation to detection capabilities
Methoxychlor	0.1 mg/L (1975)	0.04 mg/L (1992)	0.04 mg/L	0.01 mg/L	Regulation has been lowered, but not to PQL. Therefore, toxicological model or cost-benefit analysis dominates the regulation.
Nickel	0.1 mg/L (1992)	N/A (1995)	0.1	N/A	Regulation remanded
Selenium	0.01 mg/L (1975)	0.05 mg/L (1991)	0.05 mg/L	0.001 mg/L	Value of standard has increased .
THMs	0.1 mg/L (1979)	0.8 (1998)	N/A	N/A	Value of standard has increased . THMs are regulated only to the extent to which implementation would not result in exceedences to microbiological drinking water standards. Regulations are function of competing risk models.
Toxaphene	0.005 mg/L (1975)	0.003 mg/L (1991)	zero	0.003 mg/L (1991)	Toxaphene MCL is tied to PQL.

USPHS : United States Public Health Service
 NPIDWR: National Interim Primary Drinking Water Regulations