

## Health Advisories Toxicological Endpoint Examples for PFOS and PFOA

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**Table 1. Examples of PFOS Drinking Water Guidance Levels**

Agency/ State	Advisory Level	Toxicological Endpoint	Reference Dose (ng/kg-day)	Total Uncertainty Factors	Target Population	Water Ingestion Rate	Relative Source Contribution
US EPA	70 ppt*	Reduced rodent pup weight	20	30	Lactating women	0.054 L/kg/day	20%
Alaska	400 ppt#				Child (0-6 yrs)	0.78 L/day (15 kg b.w)	100%
Vermont	20 ppt*				Infant (0 – 1 yr)	0.175 (L/kg/day)	20%
Maine	560 ppt*	Thyroid effects	80	30	Adult	2 L/day (70 kg b.w.)	20%
New Jersey	13 ppt	Immune response	1.8	30	Adult	2 L/day (70 kg b.w.)	20%
Texas	560 ppt#	Hippocampus synapse structure	20	100	Child (0 – 6 yrs)	0.64 L/day (15 kg b.w)	100%

Notes: \*Applies to PFOA and PFOS individually or the sum of PFOA and PFOS  
#Alaska and Texas follows US EPA's health advisory of 70 ppt

**Table 2. Examples of PFOA Drinking Water Guidance Levels**

Agency/ State	Advisory Level	Toxicological Endpoint	Reference Dose (ng/kg-day)	Total Uncertainty Factors	Target Population	Water Ingestion Rate	Relative Source Contribution
US EPA	70 ppt*	Reduced rodent pup weight	20	300	Lactating women	0.054 L/kg/day	20%
Alaska	400 ppt#				Child (0-6 yrs)	0.78 L/day (15 kg b.w)	100%
Vermont	20 ppt*				Infant (0 – 1 yr)	0.175 (L/kg/day)	20%
Maine	130 ppt*	Liver effects	6	300	Adult	2 L/day (70 kg b.w.)	60%
New Jersey	14 ppt	Liver response	2	300	Adult	2 L/day (70 kg b.w.)	20%
Texas	290 ppt#	Mammary gland	15	300	Child (0 – 6 yrs)	0.64 L/day (15 kg b.w)	100%
Notes: *Applies to PFOA and PFOS individually or the sum of PFOA and PFOS #Alaska and Texas follows US EPA's health advisory of 70 ppt							

**Reference:**

Cordner, A., De La Rosa, V.Y., Schaidler, L.A., Rudel, R.A., Richter, L., & Brown, P. (2019). Guideline levels of PFOA and PFOS in drinking water: The role of scientific uncertainty, risk assessment decisions, and social factors. *Journal of Exposure Science & Environmental Epidemiology*, 29, 157 – 171.