

PPI STATEMENT AA

Regulated PFAS Chemicals and Plastic Piping for Potable Water Transport

Revised April 16, 2024

On April 10, 2024, the EPA announced the final PFAS National Primary Drinking Water Regulation (PFAS NPDWR) for six (6) specific PFAS chemicals in drinking water.^{i,ii} Water utilities are expending significant resources to improve their water treatment processes to remove these chemicals from the drinking water they supply. Health Canada is anticipated to implement similar regulations in the near future.

PPI surveyed members supplying HDPE, PE-RT, CPVC, and PP materials for potable water piping applicationsⁱⁱⁱ on the use of these chemicals. As a result of this survey, PPI has concluded that the chemicals identified in EPA's PFAS NPDWR are not intentionally added to the finished piping products for these materials.

Additionally, the question has arisen whether PFAS chemicals in the soil could permeate through plastic pipe into drinking water within the piping. Research by G. Ruta *et al.*, published in the Journal of the Australian Water Association, concluded "..., that permeation of undamaged PE and PVC pipe by PFAS is unlikely."^{iv} This conclusion is supported by their six-month laboratory exposure trial of HDPE to potential permeation by 29 PFAS compounds.

The Plastics Pipe Institute (PPI) and our members are dedicated to promoting the safe use of plastic piping systems for potable water and other applications. PPI continues to monitor research and regulations as information evolves. We will update this statement, as needed.

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ⁱ United States Environmental Protection Agency 40 CFR Part 141 and 142 PFAS National Primary Drinking Water Regulation (PFAS NPDWR), docket EPA-HQ-OW-2022-0114, FRL 8543-02-OW, April 8, 2024.

ⁱⁱ The six PFAS chemicals referred to in this statement are those proposed for EPA regulation in potable water: PFOA (CAS 335-67-1), PFOS (CAS 763-23-1), PFNA (CAS 375-95-1), PFHxS (CAS 355-46-4), PFBS (CAS 375-73-5), GenX chemicals (CAS 13252-13-6 ([Per- and Polyfluoroalkyl Substances \(PFAS\) | US EPA](#))).

ⁱⁱⁱ Potable water service, distribution, transport, per the corresponding AWWA and ASTM standards.

^{iv} Ruta, G., McNanemin, A., and Jayaratne, A. H. R. "Are PFAS an issue for permeation of plastic water pipes?" Water e-Journal (2019), Online Journal of the Australian Water Association, Vol. 4, No.3, 2019, <https://doi.org/10.21139/wej.2019.021> - [Link](#).