

PFAS

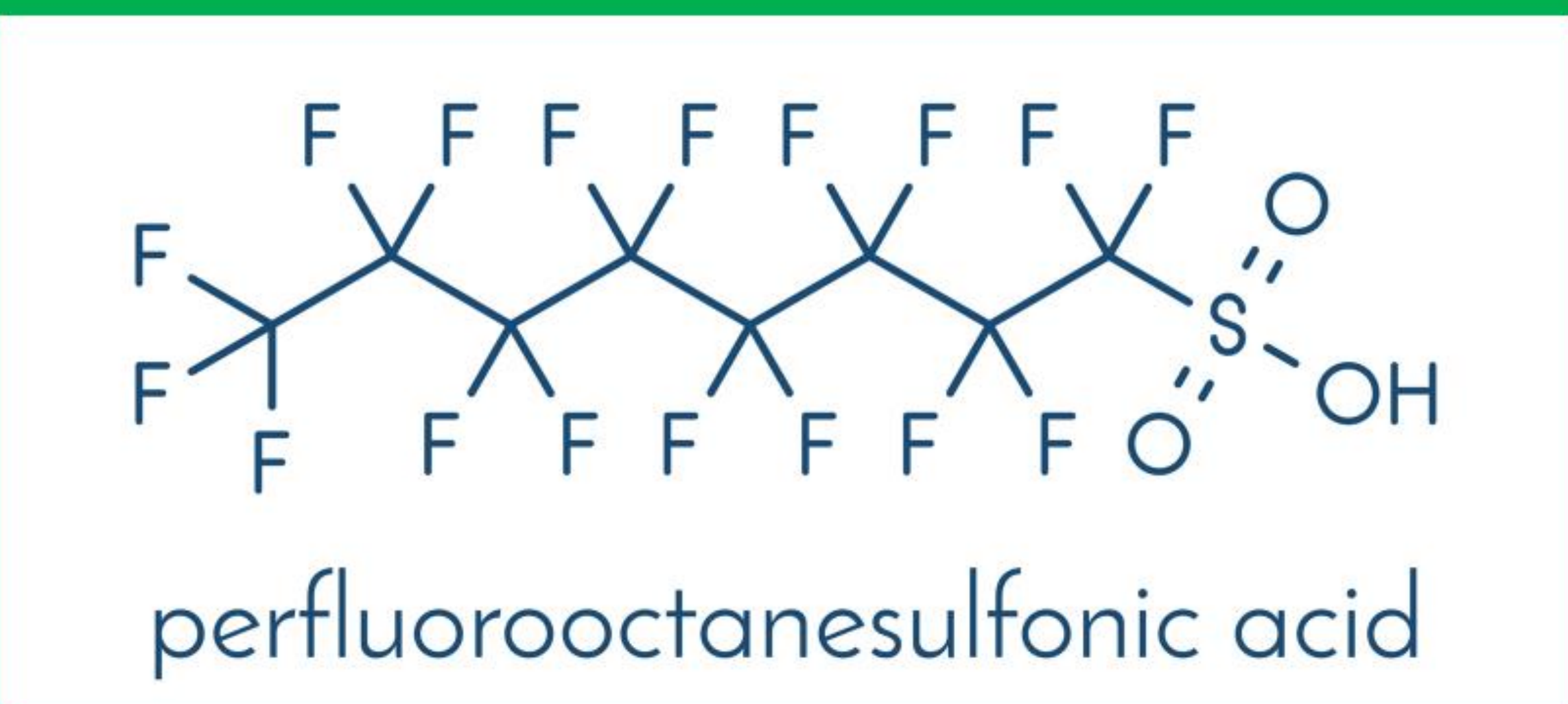
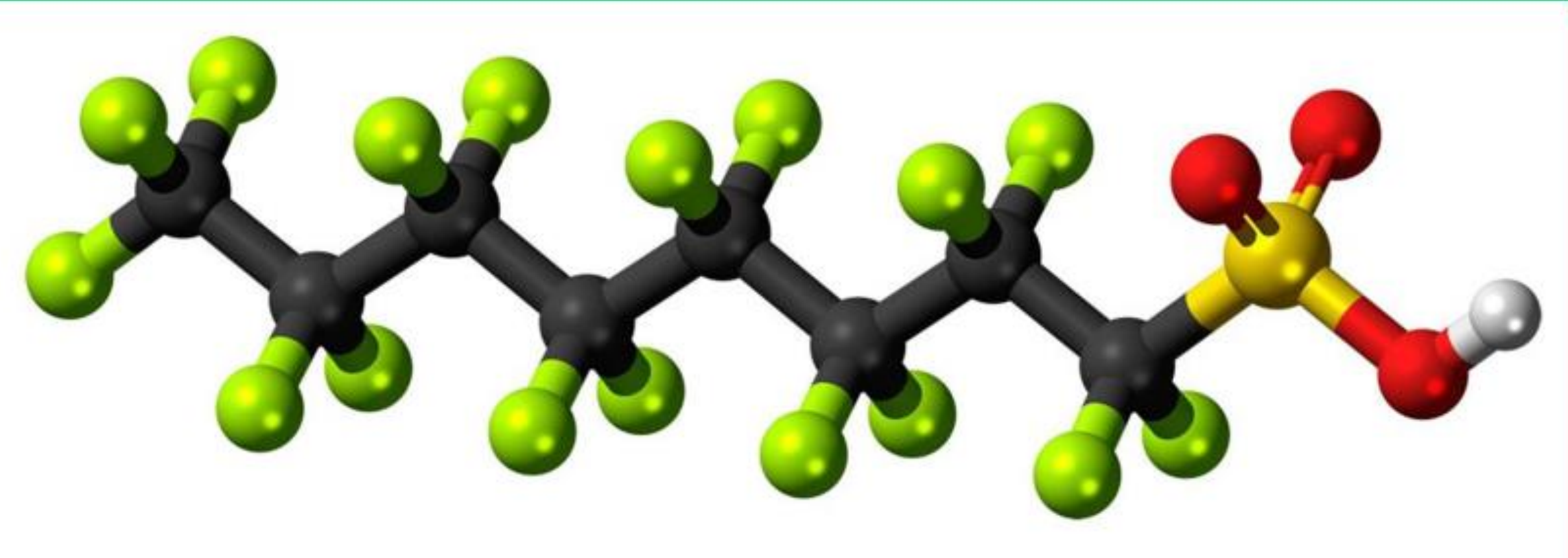
DESTRUCTION

in

WATER AND SOLIDS


PFOS

A Forever Chemical



Carbon Fluoride Bond Destruction

At Atmospheric Temperature and Pressure

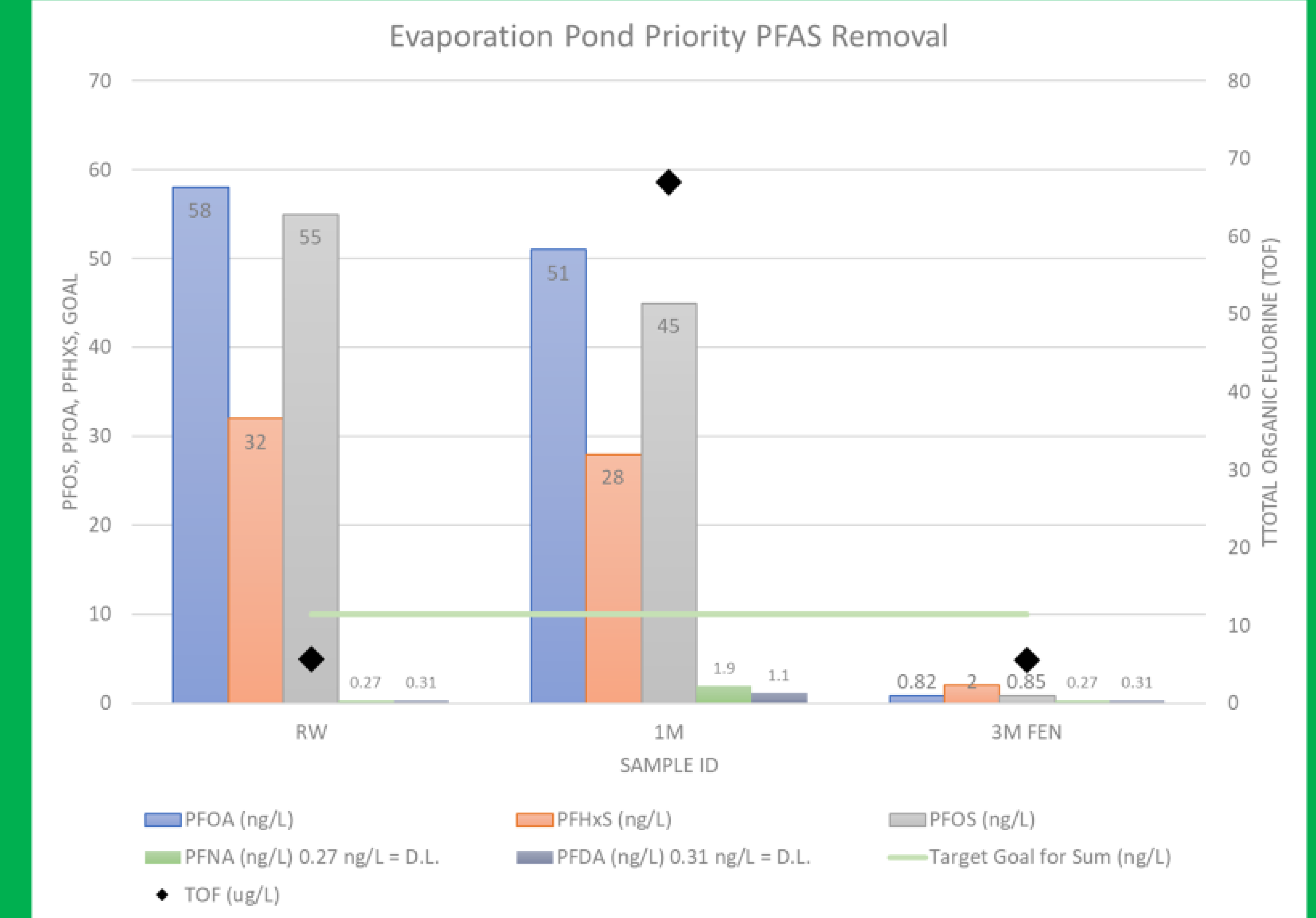
 Powell Water	PFOA Liquid ng/l (ppt)	% Removal Liquid	PFOA Solids ng/kg (ppt)	PFOS Liquid ng/l (ppt)	% Removal Liquid	PFOS Solids ng/kg (ppt)
Landfill Leachate as received	1,540			421		
Electrocoagulation Al Blades	193	87.47%	31,900	11.1	97.36%	8,230
Electrocoagulation Al and Fe Blades	284	81.56%	12,600	11.6	97.24%	3,390
Electrocoagulation Fe Blades + H2O2	< 3.97	99.74%	70	< 2.36	99.44%	20

EPA is proposing an enforceable MCL for PFOA and PFOS at 4 parts per trillion (ppt) (4.0 nanograms / Liter (ng/l)) and combinations of PFNA, PFHxS, PFBS, and Gen X Chemicals in Drinking Water as of March 2023.

EPA LANDFILL DISPOSAL LIMITS PENDING
500 ppt is being discussed at present for landfill disposal
US Patent No, 8,048,279

Bureau of Reclamation

Alamogordo, New Mexico



Water Reuse Advancements in Desalination and PFAS Research – Embracing the “Electrification” Concept
February 23, 2023, Garver Engineering
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