



AQUA-AEROBIC SYSTEMS, INC.
A Metawater Company

AquaPRS™

PFAS Removal System

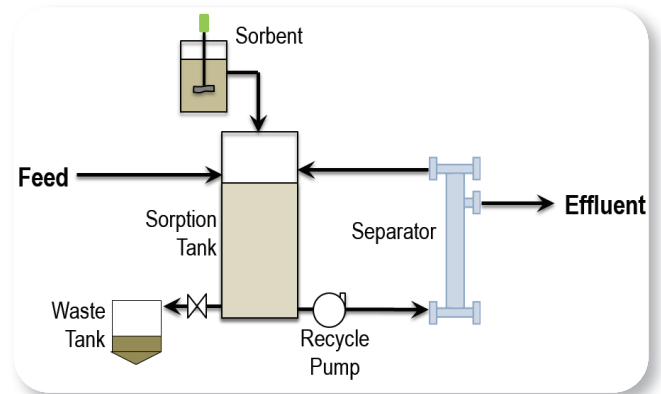
AquaPRS™

PFAS Removal System

The AquaPRS™ PFAS Removal System utilizes a unique sorbent suspension to adsorb pre- and polyfluoroalkyl substances (PFAS) and a robust separator to extract clean water from the suspension. The turbulent sorbent slurry prevents biofouling and controls solids and mineral buildup. Additionally, the sorbent material is specially engineered to adsorb much more PFAS than can be adsorbed by the same amount of other sorbents or ion-exchange resins, resulting in significantly less life cycle costs. The process is completely automated, including replacement of the sorbent, and allows parameter adjustments in response to varying influent concentrations of PFAS. Single stage operation removes PFOS/PFOA to levels below 70 ppt or less. Two stage operation achieves 70 ppt or less for UCMR3 components and can be included initially or added in the future.

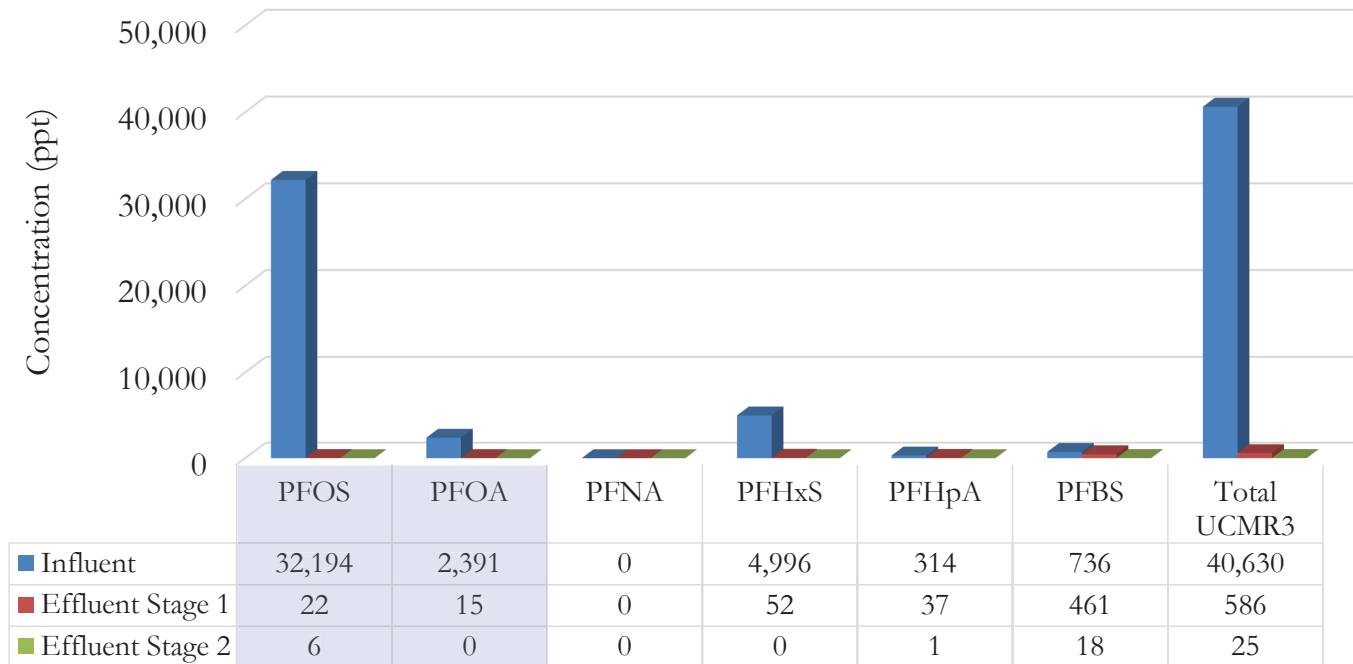
Advantages

- Fouling and scaling controlled by slurried sorbent
- Adsorption rates are significantly higher than granular activated carbon (GAC) or ion-exchange resin (IX Resin)
- Waste volumes are substantially lower when compared to GAC or IX Resin
- Enhanced removal of short-chain PFAS in a single process
- Process is completely automated, including sorbent replacement
- Minimal operator attention needed
- Significantly higher effluent quality than other technologies



AquaPRS™ Process Flow Diagram

UCMR3 Compound Removal Series Operation



- Single Stage Removal to < 70 ppt Combined PFOS/PFOA
- Two Stage Removal to < 70 ppt Combined UCMR3 Compounds



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