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Application of polyacrylamide flocculation with and without alum coagulation for mitigating ultrafiltration membrane fouling: Role of floc structure and bacterial activity

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Abstract:

There is a growing interest in the use of ultrafiltration (UF) for the treatment of micro-polluted surface waters for drinking water supplies. Effective pretreatment is required to mitigate membrane fouling and in this paper we have evaluated the application of polyacrylamide (PAM) flocculation with alum coagulation. Bench scale tests were conducted over extended periods with two types of PAM (different

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