



Figure S1. Variations in the 11 environmental parameters across the three watersheds, considering each season only during the low-flow periods. $p < 0.05$ (*), $p < 0.01$ (**), $p < 0.001$ (***). a) dissolved oxygen (DO, mg L⁻¹), b) percentage of oxygen saturation (% saturation), c) conductivity (EC, $\mu\text{S cm}^{-1}$), d) soluble reactive phosphorous (P-PO4³⁻, mg L⁻¹), e) pH, f) temperature (T $^{\circ}\text{C}$), g) total suspended solids (TSS, mg L⁻¹), h) alkalinity (alkalinity mmol L⁻¹), i) nitrate (N-NO3⁻, mg L⁻¹), j) nitrite (N-NO2⁻, mg L⁻¹), k) ammonium (N-NH4⁺, mg L⁻¹).