**Text S2. How to calculate EPT and Diptera index for the aquatic insect community revealed by conventional and eDNA methods**

* For conventional Surber net survey data

Metrics based on abundance using individual counts;

$$\%EPT=\frac{Total EPT taxa individuals}{Total individuals of the samples}×100\%$$

$$\%Diptera=\frac{Total Diptera taxa individuals}{Total individuals of the sample}×100\%$$

$$\%Chironomidae=\frac{Total Chironomidae taxa individuals}{Total individuals of the sample}×100\%$$

* For eDNA data analyzed at genus/family-level identification

Metrics based on OTU richness (the number of OTUs);

$$\%EPT=\frac{Total EPT OTU richness}{Total OTU richness}×100\%$$

$$\%Diptera=\frac{Total Diptera OTU richness}{Total OTU richness}×100\%$$

$$\%Chironomidae=\frac{Total Diptera OTU richness}{Total OTU richness}×100\%$$