Supporting Information

Principal component analysis to assess the composition and fate of impurities in a large river-embedded reservoir: Qingcaosha Reservoir

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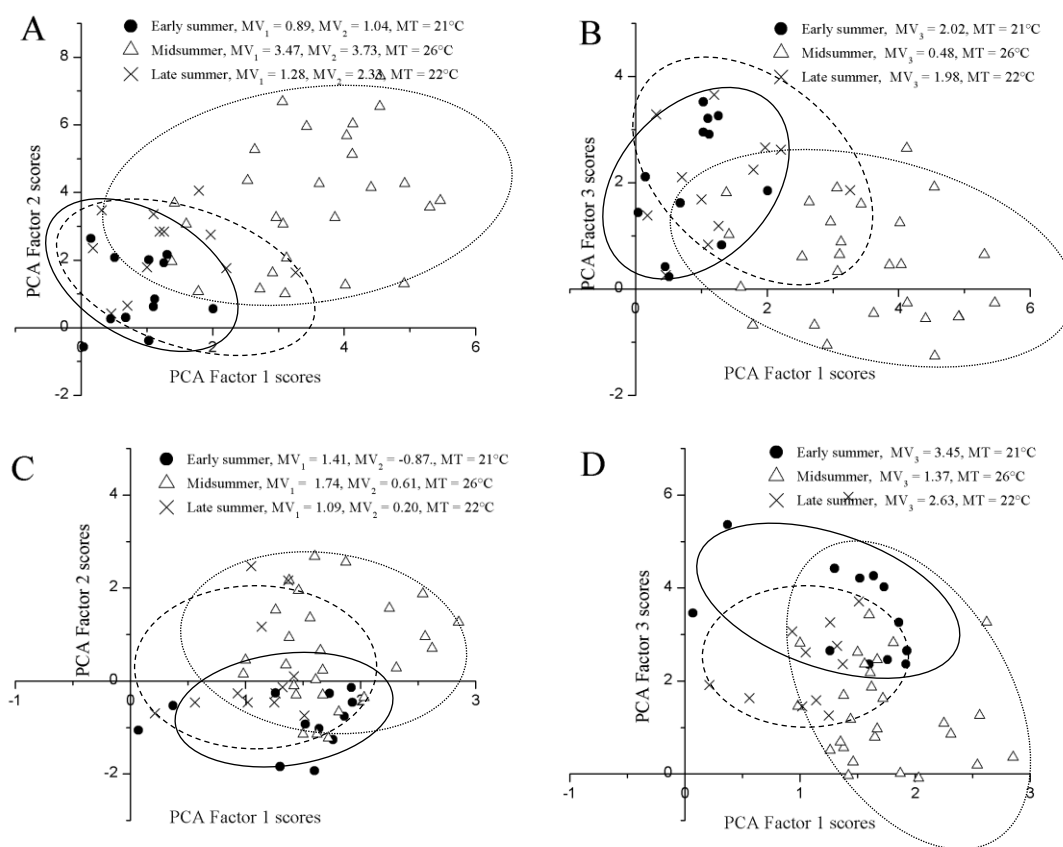**Temporal variation of PCA factor scores at Site 2 and Site 4 in summer.**

Fig. S1 Scatter plots of PCA factor scores at Site 2 and Site 4.

(A-B) spatial variations of PCA factor scores at Site 1. (C-D) spatial variations of PCA factor scores at Site 3. MV_1, MV_2 and MV_3 indicate the mean values of Factor 1, 2 and 3 scores, respectively. MT is the mean water temperature. The 90% confidence ellipses of PCA factors are presented in PCA scatter plots. Solid lines represents early summer sample, dot lines for midsummer sample and dash lines for late summer sample.