



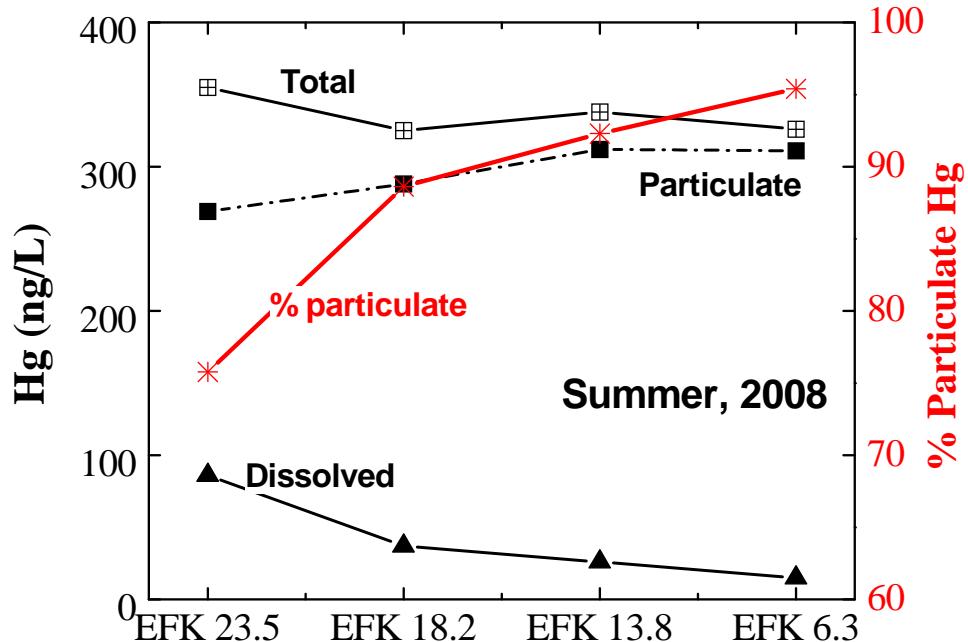
*Supplement of*

## **X-ray fluorescence mapping of mercury on suspended mineral particles and diatoms in a contaminated freshwater system**

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**Supplementary material 1** – Dissolved and particulate mercury (Hg) distributions in the contaminated East Fork Poplar Creek (EFPC) in Oak Ridge, Tennessee. The majority of Hg is associated with suspended particles ( $>0.45\text{ }\mu\text{m}$ ), and the particulate bound Hg increases downstream from the contamination source.



**Supplementary material 2** – Scanning electron microscopy backscattering elemental maps of a typical diatom collected from EFK23.5 site.

