

## **A NEW COMPILATION OF ELEMENT CONCENTRATIONS IN THE NATURAL RIVER WATER STANDARD SLRS-6 (NRC-CNRC)**

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WORKSHOP**

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In Geosciences, there are only few natural river water certified reference materials to ensure the quality of the routine concentration's determination. One of those CRM is provided by the NRC-CNRC and called SLRS. Actually, the SLRS-6 has been released. However, there is only 19 elements having their concentration certified. Those elements are used to validate the measurements. Therefore, when a larger investigation is done, which is the case for the laboratories implied in the CNRS "Isotrace" consortium, it is relatively limitant.

As done for the previous version of the SLRS (4-5) our consortium, working on major and trace elements in natural water, studied in details the CRM SLRS-6. They validated the measurement on the 19 certified elements and went further by determining other non-certified elements based on regular analysis of them using ICP-MS and ICP-OES.

We now offer a compilation of values for about 20 trace elements, including Rare Earth Elements, which are not certified by the producer as well as for silicon. Values are determined using robust mean and their associated expanded uncertainties. The Sr isotopic ratio is also proposed.

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