



## Secretariat of ISO/TC 147/SC 2/WG 52

Document ISO/TC 147/SC 2/WG 52

Date: 2010-10-19

**INFORMATION**  
*for the participation at the*  
**Interlaboratory Trial for the validation of project ISO 17379:**

**Water quality — Determination of selenium**

- **Part 1: Method using hydride generation **AFS** (HG-AFS)**
- **Part 2: Method using hydride generation **AAS** (HG-AFS)"**

Dear colleagues,

Thank you very much again for your kind interest to participate in the interlaboratory trial for the validation of the new ISO standard ISO 17379. Today, we like to give you some further information on the design and the timetable of the trial which will be carried out in early 2011 (Jan./Feb.).

A second item we would like to mention again is that our trial is a **validation exercise** and not a kind of proficiency testing trial. Therefore, **it is crucial that you strictly stick to the procedure described in the ISO 17379.**

Please find in the following table some further technical information for your kind attention and consideration when preparing your measurements.

Item	Information
<u>Number of expected participants:</u>	<b>Between 10 and 20</b>
<u>Relevant document:</u>	<p><b>ISO 17379-1</b>            "Water quality — Determination of selenium — Part 1: Method using hydride generation atomic fluorescence spectrometry (HG-AFS)</p> <p><b>ISO 17379-2</b>            "Water quality — Determination of selenium — Part 2: Method using hydride generation atomic absorption spectrometry (HG-AAS)"</p>
<u>Dispatch of samples:</u>	<b>2<sup>nd</sup> half January or 1<sup>st</sup> half February</b>
<u>Deadline for submission of results:</u>	<b>End of March 2011 (deadline)</b>
<u>Participation fee:</u>	<b>The participation is free of charge!</b>
<u>Matrices:</u>	<p><b>Sample A:</b> Drinking water (Public Water Supply of Muelheim)</p> <p><b>Sample B:</b> Filtered surface water (no digestion necessary) (River Ruhr, near Muelheim)</p>

Item	Information
	<b>Sample C:</b> Municipal Wastewater with low COD (effluent of a plant in Duisburg)
<u>Preservation:</u>	The samples will be acidified by adding <b>Hydrochloric acid</b> (5.3) 3 ml ± 0,5 ml per litre. Anyway, the pH will be less than 2.
<u>Reporting of results:</u>	<p>An electronic record sheet (EXCEL file) will be provided. All results shall be recorded in this file.</p> <p> <u>Sheet: Sample A (DW)</u> = results for drinking water sample  <u>Sheet: Sample B (SW)</u> = results for surface water sample  <u>Sheet: Sample C (WW)</u> = results for wastewater sample </p> <p>The file shall be e-mailed to the organiser. In addition to that the results shall be printed out, signed and sent back to the organiser by postal mail.</p> <p>Finally, participants are requested to give some "General Information" about the measurements. In some cases a choice between pre-set options will be offered by tick-boxes.</p>
<u>Elements to be determined:</u>	Selenium
<u>Replicates</u>	<b>Three independent replicates</b> per element are required
<u>Concentration range(s):</u>	<p>near to the LOQ for drinking water</p> <p>in typical ranges for surface water and waste water</p>
<u>Performance criteria:</u>	Limits of Quantification ( <b>LOQ</b> ) It will be nice for gathering more information if you will state <b>your lab specific LOQ</b> in the EXCEL file provided.
<u>Evaluation:</u>	according to ISO 5725-2
<u>Report/certificate:</u>	<p>The results of the trial will be reported in detail to all participants in an anonymous form. The participants can identify their own data via the laboratory code. Detailed tables and graphs will be delivered (mail with pdf files).</p> <p>A signed certificate with the results of the lab will be forwarded by postal mail.</p>
<u>Date of delivery of the results:</u>	<b>May 2011</b>

**Contact details of the Interlab organiser:**

ULRICH BORCHERS  
c/o IWW Water Research Centre  
Department Water Quality  
Moritzstrasse 26  
D – 45476 Muelheim an der Ruhr  
GERMANY  
Phone: +49 208 40303 210  
Fax: +49 208 40303-80  
e-mail: [u.borchers@iww-online.de](mailto:u.borchers@iww-online.de)

Finally, we like to express our warm thanks on behalf of the members of the WG 52 “Hydride elements” for your kind willingness to help us to validate the revised standard ISO 12846.

We wish you good success!

In the case of any questions, please don't hesitate to contact us by e-mail or phone.

Best regards

Peter Stockwell  
(Chairman of ISO / TC 147 / SC 2 / WG 52)

Ulrich Borchers