

Organising and co-operating PT Providers

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Network of Proficiency Testing Providers to Support the Implementation of the Water Framework Directive (WFD)

Programme 2011:

Short chain chloro- paraffins - SCCPs (C₁₀-C₁₃ chloroalkanes) in Surface Water

Aim of the PT-WFD Proficiency Tests

To check the chemical analysis of priority and other substances in the context of chemical monitoring for the European Water Framework Directive, especially for compliance of surface waters with Environmental Quality Standards (EQS).

Special benefits of network PTs

- international comparison with EU laboratories
- lower management costs
- higher number of participants allowing more significant statistical evaluation

Who should participate?

All laboratories involved in the monitoring of surface waters. Of course participation could also be helpful for other water testing laboratories.

Organisation

This Proficiency Test (PT) will be jointly organised by cooperating PT providers. The samples will be prepared by IPL SED Nord and the results will be evaluated by the central organizer A.G.L.A.E. in France. Samples will be distributed by all co-operating partners. Identity of the participants will only be known by the PT provider where they apply.

Where to find more information?

For more information on this PT and on the PT-WFD network please visit the website

<http://www.pt-wfd.eu>

or contact one of the co-operating PT providers

Parameters (in surface water)

Parameter	AA-EQS [µg/L]	Required LOQ [µg/L]
C ₁₀ -C ₁₃ chloroalkanes (SCCPs)	0.4	0.12

AA-EQS: annual average - environmental quality standards

LOQ: limit of quantification

Sample Details

Spiked natural river water samples and "ready to analyse" will be used as PT samples.

Samples in 2 x 1000 mL glass bottles.

Cooling and darkness during transport and storage.

Sample Dispatch

Samples will be sent by courier service.

Some of the PT providers will also allow to pick up the samples at the provider

Execution of the Analysis

The samples must be analysed completely by the participating laboratory with own personnel and own equipment. Subcontracting of the analysis is not allowed.

Analytical Methods

Participants are free to choose a suitable method.

A preliminary questionnaire enquiring about analytical methods will be sent to participants so as to come up to participants' expectations.

The method should fulfil (wherever possible) the LOQ requirements of the *"Draft QA/QC commission directive of the European communities"*. The limit corresponds to **30% of the environmental quality standards (EQS)**.

Evaluation

Statistical evaluation using Algorithm A from ISO 13528 for calculation of the mean.

The consensus mean is used as assigned value (X).

Assessment

z-scores are used for the assessment of participants' results.

A fixed value of 0.25·X is used as standard deviation for proficiency assessment (SDPA).

Therefore the z-scores are calculated according to:

$$z = \frac{(x - X)}{\text{SDPA}}$$

Criteria for Assessment

|z| ≤ 2.0

2.0 < |z| < 3.0

|z| ≥ 3.0

satisfactory

questionable

unsatisfactory

Dates

Registration deadline: 31st August 2011

Sample dispatch: 22nd November 2011

Deadline for submission of results:
30th December 2011

Participation fee

The fee will be € 300

plus VAT where applicable and transportation costs.

For details about transportation costs please consult the proficiency test provider where you apply.

Report

The final report will be in English.

Translations into other languages may be available from the co-operating PT providers.