

**European Analytical Quality Control
in support of the Water Framework Directive
via the Water Information System for Europe**

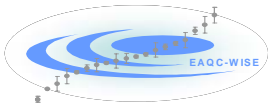
EAQC-WISE

Project Presentation

Contract N°022603 (STREP)

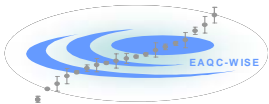
Co-ordinator: BRGM (FR)

Anne-Marie Fouillac



EAQC-WISE Specific Targeted Research Project (STREP)

- > **E**uropean **A**nalytical **Q**uality **C**ontrol in support of the Water Framework Directive via the **W**ater **I**nformation **S**ystem for **E**urope
- > **STREP, FP 6** Programme “Integrating and strengthening the European Research Area”
- > **Priority 8** “Scientific Support to Policies”, section 1.1.5 “Environmental assessment (soil, water, air, noise, including the effects of chemical substances)”



EAQC-WISE project

> 17 partners

> 10 countries

- 7 'old' EU Member States (FR, EC, AT, D, IT, NL, SK, UK) and 3 'new' EU Member States (PL, SE, SL)

> Coordination

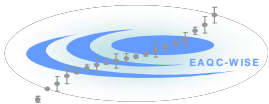
- Coordination : BRGM
- Scientific coordination : JRC-IRMM

> Duration

- 36 months
- Start date : 1st December 2005

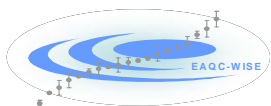
> Budget of the project

- Total budget : 1.776 M€
- EC contribution : 1.014 M€



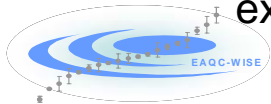
EAQC-WISE participants

Organisation name	Short name	Country
Bureau de Recherche Géologiques et Minières	BRGM	FR
Joint Research Centre IRMM	JRC	EC
Institut National de l'Environnement Industriel et des Risques	INERIS	FR
National Institut of Chemistry	NIC	SI
Laboratory of the Government Chemist	LGC	UK
WRc – plc Ltd	WRc - plc Ltd	UK
Ecologic – Institute for international and European Environmental Policy	Ecologic	DE
IWW Rheinisch – Westfaelisches Institut fuer Wasserforschung	IWW	DE
Umweltbundesamt, Federal Environmental Agency	UBA	DE
Aquacheck Ltd	Aquacheck	UK
Environmental Institute, s.r.o.	EI	SK
Ente per le nuove tecnologie, l'energia e l'ambiente	ENEA	IT
University of Natural Resources and Applied Life Sciences, Vienna	IFA – Tulln	AT
Mermayde	Mermayde	NL
SP Swedish National Testing and Research Institute	SP	SE
WARSAW University	UNIWAR	PL
Vrije Universiteit Amsterdam	VUA	NL



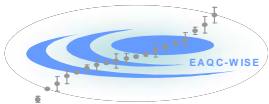
EAQC – WISE project - Objectives

- > **In the short-term objective (within the first 6 months of the project)**
 - To study different structures & existing QA/QC system at national and EU level
 - To identify gaps and needs for additional research and standardisation
- > **In the medium-term (2006-2007)**
 - To develop activities to fill in the gaps identified above
 - To derive a recommended approach of a QA/QC system that is likely to work at Member State, at river basin and at European scale
 - To assess the impact of such a recommended AQC system.
 - To check the applicability and validity by means of case studies
 - To derive a communication system to efficiently link scientific and policy-making communities
 - To derive a sustainable dissemination mechanism of reliable training appropriate to laboratories engaged in the analysis of matrices associated with WFD implementation
- > **In the long term (beyond 2008)**
 - The establishment of a quality control system, which would coordinate tailor-made proficiency testing activities, reference material production, research and training at the EU level in support of water and soil policies, with regular exchanges of good practices.



EAQC – WISE project - Work programme

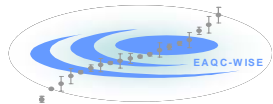
- > **WP0**: Project launching and co-ordination
- > **WP1**: QA/QC systems and tools
- > **WP2**: System for standardisation and research needs
- > **WP3**: QA/QC system awareness and methodologies in the WFD information chain
- > **WP4**: Training and Education in QA/QC



EAQC - WISE project – work programme

WP1 QA/QC systems and tools

- > To provide a **survey** of existing Analytical QA/QC systems and tools, suitable for the implementation of the WFD across the EU, and identify corresponding gaps.
- > To establish a **blue print** for developing and maintaining a sustainable pan-EU QA/QC system for water, biota and related soil monitoring data that can be deployed in an integrated way at the regional, national and European level, based on a review and selection of best practice, and following internationally agreed and accepted standards (such as ISO/IEC 17025).
- > To exemplify **the feasibility** of the proposed system through a series of documented **case studies**.
- > To carry out **an impact assessment** of the recommended QA/QC system (benefits for reporting, decision making and also cost benefits)



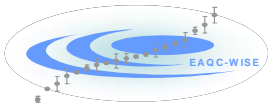
EAQC - WISE project – work programme

WP2 System for standardisation & research needs

- > To provide a **survey** of existing knowledge in underpinning research and standardisation for reliable QA/QC tools and identify future research and standardisation needs

- > To formulate a **recommended approach** :
 - to prioritise such research & standardisation
 - to make best use of European and National resources for research and standardisation

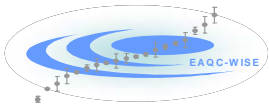
- > To **disseminate** the produced information to stakeholders involved in the implementation of the WFD.



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WP3 QA/QC system awareness and methodologies in the WFD information chain

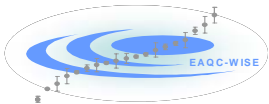
- > **Study of the data reporting chain** : a great deal of QA/QC information is often lost during the data reporting chain.
- > **Recommendation** of a system of links to ensure effective communication between data providers & data users
- > The ultimate goal of WP3 is to ensure that **competent bodies and decision-makers at all the different levels of the data reporting chain are fully aware of the *meaning* of the data** that they are using and of the “consequences” related to the “*good*” or “*bad*” *quality* of the data that are transferred to the next link of the chain.
- > 2 workshops : *months 12 and 30*



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WP4 Training and Education in QA/QC

- > WP4 aims to produce a sustainable dissemination mechanism of reliable and professional training and educational services appropriate to laboratories engaged in the analysis of waters and solid suspended matter, biota and sediments associated with WFD implementation
- > Based on :
 - Inventory of the current situation
 - Recommended approach for an EU system for training and education in water & sediment QA/QC
 - Case studies



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Planning of the work : final goal

The ultimate objective beyond 2008 : a sustainable pan-EU QA/QC system for water monitoring

