



GROUNDWATER MONITORING FOR REGULATORY PURPOSES – FIRST STEPS OF A SETAC GROUP TO DEVELOP A GUIDANCE

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Environmental Monitoring Advisory Group on Pesticides
(EMAG-Pest) - Groundwater expert group -

EMAG-Pest



Environmental Monitoring Advisory Group on Pesticides

Birds and mammals

**Invertebrates
(terrestrial)**

Groundwater

**Surface water and
aquatic organisms**

Chair of
Steering Committee:
Anne Alix

- **Main objective of the EMAG groups:**

- To promote exchanges of views, experience and data in the area of environmental monitoring and post-registration studies related to the use of PPP in crop protection and propose guidelines to perform monitoring studies.
- More information: www.setac.org/group/SEAGPest

- **Subgroup on Groundwater Monitoring:**

- **Objective:** To develop a scientific basis to recommend guidance for groundwater monitoring
- **Chair:** Anne Louise Gimsing (DEPA, DK)
- **Co-chairs:** Arnaud Boivin (ANSES, FR) and Wiebke Tüting (BVL, DE)



Members:

Jutta Agert, Nicole Baran, Ettore Capri, Russell L. Jones, Wolfram Koenig, Ton van der Linden, Dirk Liss, Ludovic Loiseau, Benedict Miles, Laurent Monrozies, Andy Newcombe, Laura Padovani, Anton Poot, Graham Reeves, Annette Rosenbom, Uta Ulrich, Stefan Reichenberger, Peter Dahlqvist, Federico Ferrari, Jenny Kreuger, Andy Massey, Michael Stemmer, Jan Vanderborght, Pernilla Åhrlin.

Activities so far

- Workshop in Copenhagen March 2015
- Presentation at Fresenius June 2015
- Presentation at the pesticide conference in Piacenza September 2015
- Course on groundwater hydrology and monitoring in Nantes May 2016
- Currently: working to develop a scientific basis to recommend guidance for groundwater monitoring

GW Monitoring Workshop

Copenhagen, March 2015. 20 participants, 4 sessions

- Identify open questions that need to be addressed for a guidance on groundwater monitoring for regulatory purposes
- Where guidance already exists: identify to which extent it is suitable to support the planned guidance
- No discussion on technical details



The four sessions in Copenhagen:

1. Monitoring data in regulatory context
2. Monitoring and modelling
3. GW Monitoring "good practices"
4. Interpretation of GW monitoring data /
Representativity of GW monitoring





Training Course on Hydrogeology and Groundwater Monitoring Study Fundamentals and Best Practices

26 and 27 May, 2016 Nantes, France. 55 participants.

Why?

- To increase knowledge about hydrogeology and monitoring for Members States' authorities. A training course would give the attendees a better understanding and help make the right decisions when assessing monitoring studies.

Who?

- Andy Newcombe, Annette Rosenbom, Arnaud Boivin, Ludovic Loiseau, Jutta Agert, Wolfram König, Russell Jones, Ben Miles, Nicole Baran, Dirk Liss, Jos Boesten, Alexis Gutierrez, Jan Renger vd Veen

Course program in Nantes:

Day 1:

- Welcome and Introduction
- FOCUS Framework for Groundwater testing
- Session 1: Basic Concepts.
- Session 2: Approaches to Groundwater Monitoring and Examples of Study Designs at various Scales.

Day 2:

- Session 3: The Role of Vulnerability Assessments in Site Identification and Selection of Groundwater Monitoring Studies and Interpretation of Results.
- Session 4: Use and Limitations of Monitoring Data in Exposure Assessments and Pesticide Registration.
- Closing session: Discussion, Further Needs, and Closing of the Training Course

Guidance on groundwater monitoring

- To address how to conduct targeted monitoring and how to use public monitoring data.
- What is the next step after failing the FOCUS scenarios? Can a decision tree for the conduct of monitoring studies be developed?
- The document is to be a helpful tool for regulators and notifiers alike to enhance acceptability/acceptance (list of criteria)



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Future Activities

Working on the scientific basis to recommend guidance for groundwater monitoring

Perhaps repeating the monitoring course

Collect publicly available GW monitoring data bases

Collect guidance already present in MS

Summarise industry experience with monitoring studies for EU and MS purposes

Thank you for your attention

