



Network of reference laboratories and related organisations for
monitoring and bio-monitoring of emerging environmental pollutants

NORMAN permanent network Launch Meeting

Paris, 20 October 2008



Network of reference laboratories and related organisations for
monitoring and bio-monitoring of emerging environmental pollutants

NORMAN JPA 2009-2011

Program activities



Programme of activities

- For 2009 : topics proposed by the members of the research project and proposals of organisations that have expressed an interest in becoming a member.
- Your comments today will be taken into account
- Possible revision of this programme depending on your feedback and the available resources - meeting of the **Founding Members after today's meeting**
- Proposals not selected in 2009 (due to limited resources) can be put on 2010 agenda

NORMAN Financial participation

- **Financial participation of NORMAN** in the activities of the network: but also a **direct contribution** by leaders and participants via co-funding from other projects, national public support, etc.

Our goal for 2009-2011

- *Our goal for 2009-2011* is to stimulate discussion and **build a more structured common approach** for the identification and risk assessment of emerging substances, including all aspects related to the use of chemical and biological integrated approaches

Today we still lack the capacity to capture those substances which are really emerging in a European context and to distinguish them from those ‘believed’ to be emerging

- 2009: The challenges of the WFD
- 2010: REACH and monitoring needs

Action 1

- Prioritisation of emerging substances

WG-1

**Prioritisation
of emerging substances**

→

- Set of common criteria
- Allocation of EP to clearly pre-defined categories (e.g. substances for which there is evidence of hazard but analytical performance is not yet satisfactory)
- Yearly update of the NORMAN list of EP
- Links with JRC-IHCP, REACH (ECHA), etc.
- Possible definition of provisional PNEC for EP

Action 2

- Progress of the research on:
 - Identification of the toxicants that are causing the observed effects
 - Bridging the gap between chemical and ecological status
- Prepare a common position to be transferred to policy-makers and environmental managers



EG-1

Toxicity profiling
(*in vitro*, *in vivo* assays
and omics):
the state of the art
and the perspectives
IVM

AW-1

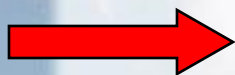
Emerging pollutants in the
WFD: Support for
identification of river basin-
specific pollutants through
NORMAN – MS strategies
and needs
JRC

AW-2

Metabolisation of
chemicals
RIVM

Action 3

- Interpretation of the results of monitoring with bioassays:
 - When using bioassays, what can and cannot we say about our water quality and how can decision-makers use the results of these tools?



WG-2

The use of bioassays
in monitoring programmes:
interpretation of results


RIVM / INERIS

- exchange experience of the different experts
- organise common exercises to “**calibrate / validate**” selected bioassays / biomarkers in controlled semi-field experiments (e.g. in mesocosm)
- Arrive at a definition of a harmonised approach for the interpretation of the results.

Action 4

- Passive samplers:

- promising tools for identification of EP
- a lot of initiatives are under way

 Need to harmonise the work + sound validation of the procedures for all aspects of the use of passive samplers

EG-2
Passive sampler
VUVH

SW-Topic 5

Cemagref

→

Capabilities and limitations of various passive samplers, problems related to the calibration and validation, QA/QC Preparation of common interlab studies for 2010-2011

Passive samplers for emerging chemicals: state of the art. Who is using them? What are performance levels?

Action 5

- Environmental specimen banks (ESB)



Inform environmental managers and policy-makers about the possible benefits from implementation of ESB as tools for the retrospective monitoring of emerging pollutants

SW-Topic 6
Env. Specimen Banks
FH-IME

?

ESB = Collection and storage of biota samples from fresh waters, marine and terrestrial environment:

- exposure assessment : allow retrospective monitoring of concentration trends of EP
- identification of effects of EP

A regular note on the NORMAN Bulletin

Action 6

- Harmonisation and validation of analytical methods



Find synergies in collaboration, so as to optimise the use of resources

IL-1

Pharmaceuticals

?

Selected relevant substances are likely to be included in future monitoring programmes:

- need to harmonise routine laboratory methods

?

Exposure, fate and availability of PFCs are still poorly understood:

- need for reliable data to support research results on the risks associated with these contaminants

IL-2
PFCs

Action 7

- Address emerging issues at the earliest possible stage

WG
Engineered
nanoparticles
in water
BfG

? Exposure, fate & availability are poorly understood for NPs. Currently, no methods are available to quantitatively detect NP levels in the environment.

? Start with collection of info to have a fuller picture of research activities of the different partners in the NP field
- There could be a meeting of interested partners in order to define a more concrete plan of activities.

- EG could be planned for 2010 :

- Behaviour of NP in the environment
- What future NP levels can be anticipated, based on production volumes & fate processes?
- NP fate and exposure modelling
- Analysis of NP in water.

Action 8 Scientific Watch Bulletin

- Addressed to managers and decision-makers
- For wider sharing of the results of scientific work in the field of EP in an accessible language
- Will be widely disseminated and made available on the NORMAN public website.

 Topics for 2009:

Pharmaceuticals and PCP

SW-1 Pharmaceuticals and personal care products in drinking and waste water: sources, occurrence, fate and removal

SW-2 Occurrence, relevance, and pathways

SUT and IWW

SW-Topic 5
Passive samplers
Cemagref

Perfluorinated compounds
SW-3 Sources of human exposure to PFCs
SW-4 Ecotoxicological effects of perfluorochemicals
ITM and RIVM

SW-Topic 6
Env. Specimen Banks
FH-IME

Action 9 NORMAN Databases

- Effort for 2009: gathering of the data produced by the various national and EU-funded research projects in the field of :

→ PFC (Monitoring campaigns from Perforce, and in different countries)

→ Pharmaceuticals and hormones (AQUATERRA, MODELKEY, KNAPPE, monitoring campaigns in various countries, national projects)

→ Demand from DG ENV WG-E: 13 Substances to be taken into account by DG ENV as candidate for future PS (Daughter Directive)

- Evaluation of monitoring results for selected substance(s): benchmark values, location, quality of the data, data gaps, etc...
 - Organic phosphorous flame retardants: occurrence and effects
 - Siloxanes : occurrence and effects

Data
collection

Report
notes
IVL

