Specific pollutants selection in France

Screening exercises

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National action plan for pollution reduction published in 2005

- Prioritisation methodology to identify relevant substances for monitoring program
- 2 screening exercises (discharges and water bodies)
- List of substances for monitoring: 2006
- Update of the plan in 2010
Selection methodology of relevant substances

Is the substance dangerous for aquatic ecosystems (upon European or National criterion)?
- Yes
- No
- Don't know

Waiting for better scientific knowledge

Can the substance be found in waters (solubility, volatility)?
- Yes
- No

Is the substance quantified in water bodies in France?
- Yes
- No
- Don't know

National review

Is the substance quantified in emissions to water bodies in France?
- Yes
- No
- Don't know

National review

The substance is put down on the list of the relevant substances to monitor

Substance excluded from the action programme

Yes

No

Don't know
2 complementary actions

1- Search for dangerous substances in discharges
- List of 106 substances or families
- About 3000 installations
- 167 UWWTPs included
- Regional actions (local Ministry rep, Water authorities, industrials)

2- National review of river water quality in 2005
- 222 stations (155 water bodies, 50 lakes et 17 coastal stations)
- 200 substances systematically analysed
- Water and sediment
- 2 monitoring campaigns (low-water and high-water)
Substances of concern:
« known substances »

Discharges:
- PS
- DSD 76/464 EEC directive

Water bodies:
- The same +
- 89 Pesticides used in France
Industrial or UWWTP concerned

Sites étudiés dans le cadre de l'action nationale 3RSDE

Source: MEDAD - Action 3RSDE
Octobre 2007
Industrial or UWWTP concerned

2876 sites

Main french industrial activities represented

- Surface treatment and metals (657)
- Chemistry (307)
- Agroindustry (439)
- Textile (155)
- Paper (124)
- Hides and skins (43)
- Glas manufacturing (56)
- + some hospitals
- + powerplants
WB monitoring stations

Stations de Mesure

- Origine
  - Cours d'Eau (Nb=155)
  - Littoral (Nb=28)
  - Plan d'Eau (Nb=50)
  - Stations Référence (Nb=37)
- Bassins Hydrographiques
  - Cours et Plans d'Eau

Map of WB monitoring stations in France, with various regions labeled.
A first step towards harmonization of the campaigns at national level

For both exercises: technical requirements
- Laboratories applied the same protocols and had to comply with the same quality requirements for sampling and analyses
- Results uploaded following a common format
- Results centralised in a data base

⇒ DATA WERE EXPECTED TO BE COMPARABLE !!!!!
FINAL OUTCOME

113 national “relevant” substances identified to monitor (in 25% of WFD SM stations)

Derivation of provisional quality standards

Evaluate the level of contamination as regards the quality standards

⇒ Setting up appropriate regulation (monitoring and reduction)
Follow up actions

From the surveillance monitoring 2006-2007:

- 10 national specific pollutants for ecological status
- Derivation of EQS

New cycle:

- In discharges with industrial sector and UWWTP specific lists (start 2010)
- In water bodies with a new screening exercise including emerging pollutants (2011)
- National expert group for prioritisation (2010)