

DRILLING METHOD FOR DEEP UNCONTAMINATED SOLID SAMPLING FOR PESTICIDE DEGRADATION EXPERIMENTS - TOOL

RIVER BASIN MANAGEMENT ISSUE										
Water Quality						Water Quantity		Alterations		Others
1	2	3	4	5	6	7	8	9	10	
C				C	C					
(1) Diffuse pollution by agriculture						(2) Salinisation				
(3) Contaminated sediment and floodplain soils						(4) Large scale pollution due to past mining / industries activities				
(5) Pollution by organic matter						(6) Emerging compounds				
(7) Water scarcity						(8) Floods and low flow				
(9) Hydromorphological alterations						(10) Soil erosion				
C = System Characterisation						M = System Monitoring				
T = System Trend						R = System Remediation, Mitigation				
RIVER BASIN										
Danube	Ebro	Meuse	Elbe	Brévilles	Others					
				✓	Not river basin specific					
Spec. : Results specific to selected River Basin										
KEY FINDING TYPE										
Laboratory based				Field based				Modelling		
				✓						
BENEFITS TO END-USERS										
Technical			Management		Policy					
WFD Implementation	Research		River Basin		Compliance			Policy making		
	✓									

INTRODUCTION

HYDRO 2 aims at collecting geological and hydrogeological data in order to improve the **understanding of hydrogeological / hydrodynamic phenomenon and contribute to the understanding of pollutant transfer.**

A better characterisation of hydrology and hydrodynamics in the saturated zone and in the unsaturated zone is a pre-requisite to improve the understanding of pollutants transfer.

HYDRO 2 focussed on assessing water input and water output in the **Brévilles catchment**. Together with FLUX 1 sub-module which deals with the chemical aspects, it contributes to pesticides modelling developed in the WP Compute 2.

TOOL SUMMARY

This method consists in improving drilling techniques in order to recover undisturbed and uncontaminated samples. This technique can be used by scientific researchers for experimental purposes as it provides better solid samples quality but has the drawbacks to be relatively time consuming and as a consequence costly.