

Field Protocol Macrophytes & Phytobenthos of Running Waters

(Macrophytes- & Phytobenthos evaluation according to EC-WFD 2005; grey fields are optional)

name of water body

Sampling site

Location of sampling site

Nearby town/village Editor

Sampling Site-No. Report-No.

Easting Northing

Top. Map No. Recording date

Length of section m Mean width m

Mean depth
 I 0-30 cm
 II 30-100 cm
 III >100 cm

Water level
 dry
 low
 medium
 high

Can sampling be carried out over the entire width of the running water? yes no

Turbidity
 No turbidity, clear
 Medium turbidity
 Strong turbidity

Bottom visible
 yes
 no

Film-/Photo-No.

Velocity of flow according to **BLfW** (1995)

<input type="checkbox"/> I not visible	almost still, eddy
<input type="checkbox"/> II barely visible	current very weak, but visible
<input type="checkbox"/> III slowly running	current visible, water surface smooth
<input type="checkbox"/> IV rapidly running	current with moderate turbulences
<input type="checkbox"/> V rapidly running	turbulently running
<input type="checkbox"/> VI torrential	very turbulent, loud brawl

Diatom sample Yes/no

Substrate

Shading according to Wörlein (1992)

<input type="checkbox"/> 1 completely sunny	sunny from sunrise to sunset
<input type="checkbox"/> 2 sunny	in full sun most of the time between sunrise and sunset, but always during the warmest hours of the day
<input type="checkbox"/> 3 partly overcast	mostly in the sun, but in shade during the warmest hours of day
<input type="checkbox"/> 4 half shaded	in the shade for more than half of the day and always at noon
<input type="checkbox"/> 5 compl. Shaded	completely shaded by trees

Macrophyte stands covering large areas mosaic

Water Colouration

Odour

Dominance of helophytes Species

Algae aspect

<input type="checkbox"/> Meadows & grassland	Remarks <input type="text"/>
<input type="checkbox"/> Reeds & sedge fen	
<input type="checkbox"/> Herb veg. & tall herb community	
<input type="checkbox"/> Riparian forest	
<input type="checkbox"/> Plants of the forest floor	
<input type="checkbox"/> Forest, silviculture	
<input type="checkbox"/> Cultivated species & neophytes	

Substrate

Percentage		Substrate Cover
<input type="text"/> %	Mud	<input type="text"/>
<input type="text"/> %	Clay/oam (<0,063 mm)	<input type="text"/>
<input type="text"/> %	sand (0,063-2,0 mm)	<input type="text"/>
<input type="text"/> %	Fine/med. gravel (2,0-6,3/6,3-20mm)	<input type="text"/>
<input type="text"/> %	Coarse gravel (20-63 mm)	<input type="text"/>
<input type="text"/> %	Stones (63-200 mm)	<input type="text"/>
<input type="text"/> %	Boulders (> 200 mm)	<input type="text"/>
<input type="text"/> %	organic/peat	<input type="text"/>

Embankments/Foreign substrata

Distance		near natural
<input type="text"/> m	Enforcement of river bed	<input type="text"/>
<input type="text"/> m	Modific in transverse dir.	<input type="text"/>
<input type="text"/> m	Embankm./Modific. of shore	<input type="text"/>
<input type="text"/> m	Outlets	<input type="text"/>
<input type="text"/> m	Pipes	<input type="text"/>
<input type="text"/> m	Waste/(construction) debris	<input type="text"/>
<input type="text"/> m		<input type="text"/>
<input type="text"/> m		<input type="text"/>

