

Bathing Water Directive (2006/7/EC) in EU Including Bathing Water Profile

with Emphasis on Cyanobacterial Proliferation

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INTRODUCTION

Bathing Water Directive 2006/7/EC

(2006.02.15.)

Repealing of Directive 76/160/CEE Changes to the previous Directive :

- Main purpose: to reduce the risk of bathing water borne gastroenteric and other diseases Establishment of the Bathing Water Profile (BWP)
- Assessment of the risk of cyanobacterial proliferation

By 2011 Bathing Water Profile should be built up by all EU member states. Main concept: human health must be protected for hazardous (biological) environmental agents, like bacteria, cyanobacteria, etc.

Risks caused by cyanobacterial proliferation

Article 8

(1) Monitoring should be built up to forecast the risk of possible adverse health effects caused by cyanobacterial proliferation occurring in any bathing water

(2) Risk management is to establish if the danger of exposure to a cyanobacterial bloom is likely, and to warn the bathers by release of information to the public









(a)Physical, geographical and hydrological characteristics and important parameters determined in WFD for bathing water and its catchments (b) Determination and evaluation of pollution sources (c) Assessment of potential of cyanobacterial proliferation (d) Assessment of proliferation of macroalgae (e) In agree of denger of short term pollution

(1) Bathing Water Profile (BWP) should contain:

(e) In case of danger of short term pollution •Forecast for duration and frequency of predicted short term pollution

ACTIVITY

- •Details of the causes of pollution including the risk management and plans for elimination of pollution
- •Identification and contact details of stakeholders responsible for management and actions
- (f) Position of control point

(2) the classification of bathing water (good, sufficient or poor) for the BWP has to be updated regularly with regard to points a-f of item (1).



A common system had to be established in Europe to evaluate the risk in a similar way in all EU countries This now becomes possible with the Bathing Water Profile

CONCLUSIONS

Natural cyanobacterial bloom samples cause various toxic, allergic and irritative symptoms in bathers There is need to check the plankton composition continuously e.g. by digital holographic microscopy (**DHM**) There is need to determine the toxicity quickly in fresh waters containing blooms in order to take appropriate decisions