

THE VIABILITY OF ECOTOXICOLOGICAL BIOTESTS FOR ASSESSMENT OF BIOLOGICAL STATUS OF SURFACE WATERS – GOCZALKOWICE WATER RESERVOIR EXAMPLE

Summary

Implementation of ecotoxicological biotests for monitoring of water quality in water reservoirs is one of the aims of the project “Integrated system supporting management and protection of water reservoir (ZiZOZap)”. The project is executed within The Programme Innovative Economy under National Strategic Reference Framework as a part of introducing Water Framework Directive. The model object of the Project is Goczalkowice Water Reservoir. The main purposes of the Project are maintaining a good condition of the Reservoir for future and prevent processes of its aging and degradation. The final product of the Project will be an informational system based on the results of environmental moni-

toring, numerical models of reservoir and relative management scenarios. The system will allow permanent assessment of current reservoir condition as well as prediction of its short time and long time alterations. In consequence, these may lead to rationale decisions referring to reservoir management. Since July 2010 a battery of standardized commercial biotests is applied for water quality monitoring in Goczalkowice Reservoir. The obtained results are referred to the standards set by governmental and EC ordinances. We assume the biotests would be useful in constructing detailed scenarios of the reservoir management..