

DEVELOPMENT AND VALIDATION OF ADVANCED MONITORING SYSTEM FOR CONTROL OF ORGANIC PRIORITY POLLUTANTS IN TREATED WASTEWATER EFFLUENTS

COORDINATING BENEFICIARY:

CETaqua: Centro Tecnológico del Agua, Fundación Privada

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OBJECTIVE:

The main objective of the AQUATIK project is to produce methodologies and methods for monitoring selected priority pollutants by developing a new automated prototype to measure the priority pollutants discharged in wastewater effluents and related spills. This meets the need to conform to The Water Framework Directive (WFD) 2000/60/CE in the two types of standards proposed by environmental quality standards (EQS) directive (2008/105/EC): 1) average concentration calculated over a selected period (AA); 2) maximum allowable concentration (MAC) detecting sporadic peaks of concentration.

DESCRIPTION:

AQUATIK aims to design a new monitoring tool of priority pollutants, using the technology of biosensors, able to quantify automatically and at real time their concentrations in order to ensure that the concentration thresholds are not overlapped. Since urban wastewater and a major part of industrial wastewater are transferred to wastewater plants, the monitoring tool is going to be placed at the outlet of wastewater treatment plant (WWTP).

The monitoring system is developed for the quantification of seven target priority pollutants selected for their abundance in rivers and particularly in the Llobregat river basin (Catalonia, Spain) where the system is going to be implemented. Four of these compounds belong to the pesticides family (atrazine, diuron, isoproturon and simazine) and the other three are organic substances widely spread in rivers (octylphenol, nonylphenol and DEHP).

This project investigates an innovative and promising system for the protection of our surface waters and explores new possibilities offered by biosensor technologies in real time monitoring.

INDUSTRIES:

Chemical industry Pharma industry	Liquid waste disposal Other industries
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MORE INFORMATION:

<http://www.life-aquatik.eu/>

