



Universität Stuttgart



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Universität Stuttgart · WAREM · Pfaffenwaldring 7a · 70569 Stuttgart

WAREM Seminar February 17, 2015

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Master's Thesis Presentation

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Assessment of selected micropollutants in wastewater treatment plants and their receiving water body

Micropollutants are non-regulated substances with a high potential to be subjected in future water policy regulations. Despite of the fact that available advanced wastewater technologies have a major influence on reduction of micropollutants emission into surface water bodies, still the lack of a comprehensive information on behavior of these compounds is evident. To demonstrate an overview of micropollutants behavior passing through wastewater treatment plants and to provide a groundwork for future policy design and solutions, this study focused on quantifying the target substances in 3 wastewater treatment plants influent and effluent as well as upstream and downstream of their receiving water body, called Sulzbach.

Among the compounds characteristics biodegradation, dilution and adsorption were investigated and substances with similar behavior were classified in groups. Moreover, the influence of connected tributaries, precipitation and combined sewer overflows on concentration variations in surface water as well as effluent of wastewater treatment plants was investigated.

Date: Tuesday, February 17, 2015

Time: 17:30

Location: Pfaffenwaldring 7.11,

WAREM Students and other interested parties are cordially invited.