



Versuchseinrichtung zur Grundwasser- und Altlastensanierung · VEGAS
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University of Stuttgart
**Institute for Modelling Hydraulic
and Environmental Systems**

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Thesis Topic
for B.Sc., M.Sc.
BAU,UMW, WASTE, WAREM

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Column experiments for assessments of the efficiency of an S-ISCO process (surfactant-supported in-situ oxidation) for the remediation of groundwater contaminations

Description

As part of an international EU research project, the application possibilities of surfactant-supported in-situ oxidation processes in the field and on a large scale in the laboratory are to be investigated. The method is based on making contaminants available by solubilization with surfactants in order to increase the efficiency of chemical oxidation.

The subject of this bachelor's or master's thesis is to assess the efficiency of an S-ISCO remediation on various contaminants with column experiments and, if necessary, to increase it. Both chemical and process engineering aspects are essential components of the investigations. Particular attention will be given to the identification of an appropriate relationship between solubilization and oxidative degradation of the pollutants.

The capacity and experience of the VEGAS analytical laboratory are available for the processing of the work.

Ratio practice/theory: 80/20

Supervisors

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