Geophysical Research Abstracts, Vol. 7, 07464, 2005 SRef-ID: 1607-7962/gra/EGU05-A-07464 © European Geosciences Union 2005



The influence of grassing on water quality changes in small catchment

P. Ondr, P. Zlabek

University of South Bohemia, Ceske Budejovice, Czech Republic (ondr@zf.jcu.cz / Fax: +420385310122 / Phone: +420387772771)

The research of water quality was done on two subcatchments of Jeninsky stream, differently drained with systematic and sporadic drainage. Primary monitoring of water quality was done in the years 1983-1985, when these areas were used as an arable land.

After the change of socio-economic relations was the monitoring on the locality canceled. In the year 2004 was the monitoring resumed, but in different land use conditions. As well as surrounding likewise drained areas are researched subcatchments extensively used.

The basic requirement for rutern to the primary monitoring was to evaluate nitrogen ionts concentrations - its forms, mobility and retention time in the catchment. Further were as well other basic nutrients monitored (P, Mg, Ca a K) for evaluation of their mobility and other indicators (pH, COD, alkalinity and conductivity) for overall evaluation of processes in soil after grassing.

Key words: water quality, drainage, grassing, arable land