

Abstract

This thesis deals with the monitoring of water quality and aquatic sediments analysis in the basin of Kunratický brook.

Water samples were collected at six locations during once year. The results of analysis were evaluated according to CSN 75 7221 Water quality – Classification of surface water quality and Regulation 229/2007. According to CSN 75 7221 Kunratický brook is classified as very strong polluted water. Biological consumption of oxygen, ammoniated and nitrate nitrogen meet not the conditions of environmental quality according to Regulation 229/2007.

Sediment samples were collected once for whole period at 4 locations. In sediment was determine the content of metals. The results of analysis were evaluated according to Regulation 257/2009. The results were compared with limits of US EPA, specifically PEC and TEC. Sediments of pond Šeberák are full obliged. Zinc, lead and cooper are in excess of sediments of Kunratický brook.

Key words: water quality, sediments quality, basin