PARTICIPATION OF SULPHATE-REDUCING BACTERIA IN BIODEGRADATION OF ORGANIC MATTER IN SOOLS CONTAMINATED WITH PETROLEUM PRODUCTS

DOROTA WOLICKA¹, ANDRZEJ BORKOWSKI²

¹University of Warsaw, Institute of Mineralogy, Geochemistry and Petrology, al. Żwirki i Wigury 93, 02-089, Poland
²Agricultural University, Faculty of Agriculture and Biology, Institute of Agricultural Microbiology, Department of Soil Sciences, ul. Nowoursynowska 159, 02-776 Warsaw, Poland

Biodegradation of organic matter by sulphate-reducing bacteria (SRB) isolated from soil from military testing ground and petroleum plants were investigated. The isolated microorganisms utilized low molecular weight compounds and participation of SRB in biodegradation of these compounds was similar in marine sediments and in soil (40–55%).