

## **SUITABILITY ANALYSIS OF WASTE ROCK APPLICATION IN HYDRIC RECLAMATION IN THE NATURAL WATER-BEARING SUBSIDENCE TROUGHS IN OKR**

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### **ABSTRACT**

**Pertile E.: Suitability Analysis of Waste Rock Application in Hydric Reclamation in the Natural Water-bearing Subsidence Troughs in OKR**

The paper deals with a suitability analysis of waste rock application in hydric reclamation on the basis of studying its impact on water quality in the natural water-bearing subsidence troughs. The evaluation was carried out in sixteen localities where waste rock had been used in the past for the purposes of bank system improvement. Within the evaluation of waste rock impact on the hydrochemical character of water in the subsidence troughs the values of geochemical background were identified. In order to compare the impact of waste rock on the quality of water, changes in the hydrochemical parameters were monitored in the localities without waste rock banking, with partial (maximum  $\frac{1}{2}$  circumference) and complete waste rock banking.

**Key words:** waste rock, water-bearing subsidence troughs, water quality, hydrochemical parameters, hydric reclamation