

GROUNDWATER VULNERABILITY DETERMINATION OF NORTHEASTERN BOSNIA ACCORDING TO DRASTIC METHOD

Srkalović Dado¹, Željka Stjepić Srkalović²

¹Faculty of mining, geology and civil engineering Tuzla, e-mail: dadosrkalovic@gmail.com

²Faculty of Sciences and Mathematics Tuzla, e-mail: zeljka.stjepic-srkalovic@untz.ba

The paper assesses the vulnerability of groundwater bodies in the basin of the river Bosna and Spreča, then the river basin of the Drina river (Drinjača), as well as parts of the immediate Sava river basin (Čelić area - Gnjica river and Turija basin) by the DRASTIC method. All water bodies were analyzed in terms of groundwater depth, roof sediment thickness, infiltration, slope angle, hydraulic conductivity and lithological composition of aquifers. The pollution potential formula was used to assess the vulnerability of groundwater.

Key words: groundwater bodies, groundwater, DRASTIC method, northeast Bosnia