



Resistance absorption of some groundwater tracers in porous media

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Absorption of tracer to the aquifer material is among the most important factors which should be considered when a tracing program is considered. In this study, the absorption of the tracer into the porous media is analyzed experimentally for some of the most important and applied tracers as uranine, rhodamine B, eosin, potassium permanganate, sodium chloride and potassium chloride. For each tracer, effect of initial tracer concentration and percentage of fine grain sediments on tracer absorption in porous media is analyzed. According to the final results, rhodamine B and potassium permanganate have the less resistance against absorption to aquifer material, whilst eosin and uranine are the most resistant tracers among the examined ones.

Key Words: Tracer, Absorption, Aquifer, Column Method