

SYMBOLS AND UNITS

A	area	[m ²]
B	width of the flow field contributing to a well	[m]
C	concentration	[mg/L] or L/(s km ²)
D	specific discharge	[mm/a] or L/(s km ²)
EP	potential evapotranspiration	[mm/a] or L/(s km ²)
ET	evapotranspiration	[mm/a] or L/(s km ²)
F	freight	[mg/times] or [kg/(ha year)]
H	High	[m]
K	permeability	[m ²]
k ₁	hydraulic conductivity of the filter tube	[m/s]
k ₂	hydraulic conductivity of the filter pack	[m/s]
k ₃	hydraulic conductivity of the aquifer	[m/s]
k _f	hydraulic conductivity	[m/s]
M	thickness	[m]
n	relative portion	[-]
P	precipitation	[mm/a] or L/(s km ²)
Q	discharge	[m ³ /s]
R	groundwater recharge	[mm/a] or L/(s km ²) 1 L/(s km ²)≅31.5 mm/a
R _f	retardation factor	[-]
r ₁	inner radius of the filter tube	[m]
r ₂	outer radius of the filter tube	[m]
r ₃	radius of the borehole	[m]
t	time	[sec]
T	mean residence time	[years]
TU	Tritium Unit	≅ ³ H/ ¹ H = 10 ⁻¹⁸ 1 TU = 0.11 Bq/L
v	velocity	[m/d]
v _b	borehole velocity	[m/d]
v _f	filter velocity	[m/d]
p	porosity	[-]
pMC	percent modern ¹⁴ C	[%]
v _a	distance velocity	[m/d]

v_b	borehole velocity	[m/d]
r	radius	[m]
t	time	[d]
α	geometric factor	[-]
γ	unit weight of rocks	[g/cm ³]
δ	relative abundance ratio of stable isotopes	[‰], as a relative deviation from a standard