

What is the equation for groundwater to surface water dilution?

Lunes 09 de Marzo de 2009 03:07 - Last revised Miércoles 01 de Julio de 2009

The equation for groundwater to surface water dilution is as follows:

$$DF_{gw-sw} = (1 + (Q_{sw}/(V_{gw} * d_{sw} * W_{gwsw})))^{-1}$$

Where

Q_{sw} = surface water flowrate at groundwater to surface water discharge (cm³/s)

V_{gw} = groundwater darcy velocity (cm/s)

d_{sw} = thickness of affected groundwater to surface water discharge (cm)

W_{gwsw} = Width of groundwater to surface water discharge (cm)