

## What is the equation for groundwater to surface water dilution?

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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 (cm<sup>3</sup>/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)