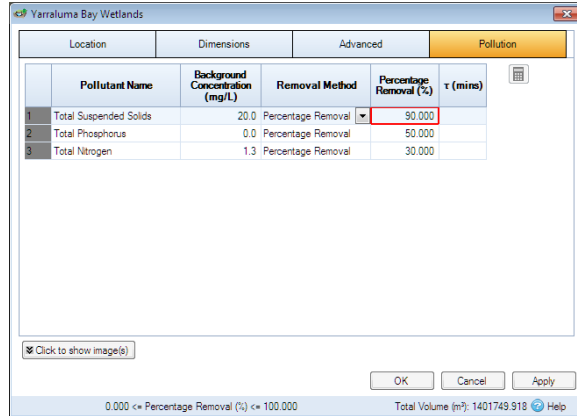


Percentage Removal

For **percentage removal**, the concentration (C) within the drainage system is given by the routing method. There are two sub-methods available for percentage removal: [with](#), or [without](#) background concentration.



Location	Dimensions	Advanced	Pollution	
Pollutant Name	Background Concentration (mg/L)	Removal Method	Percentage Removal (%)	τ (mins)
1 Total Suspended Solids	20.0	Percentage Removal	90.000	
2 Total Phosphorus	0.0	Percentage Removal	50.000	
3 Total Nitrogen	1.3	Percentage Removal	30.000	

The sub-methods outlined below use the following variables:

C = pollutant concentration

C_{out} = pollutant concentration in the outflow

C_{in} = pollutant concentration in the inflow

$PercentageRemoval$ = the specified percentage by which the concentration in the outflow is reduced

Percentage Removal Without Background Concentration

The concentration in the outflow is calculated as the resident concentration, reduced by the specified percentage.

$$C_{out} = C_{in} * (1 - PercentageRemoval)$$

Percentage Removal With Background Concentration

Realistically some pollutant concentrations are not reduced to zero. In such cases, users may specify a background (minimum) concentration (C_{back}) below which the pollutant concentration will not be reduced.

The method is the same as for Percentage removal without background concentration, except for the inclusion of the background concentration variable.

$$C_{out} = C_{back} + [(C_{in} - C_{back}) * (1 - PercentageRemoval)]$$



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Section Pages

- [Pollution Concentration](#)
- [Pollutant Removal Methods](#)
 - [Percentage Removal](#)
 - [First Order Decay](#)

Workflow - What's next...?



Connect Inflows to your **Stormwater Control**, specify **Inlets** or **Outlets** or connect to another Stormwater Control or **Junction**.