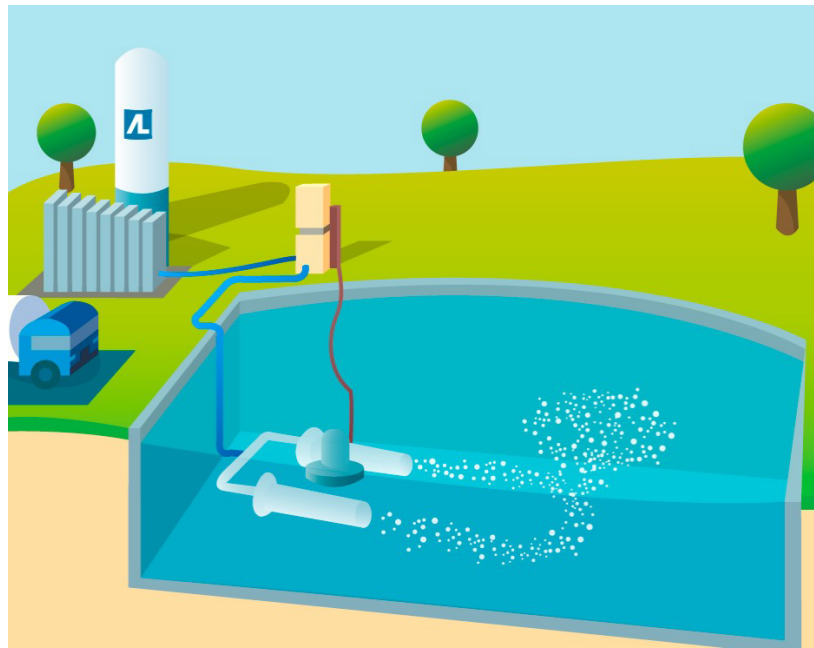


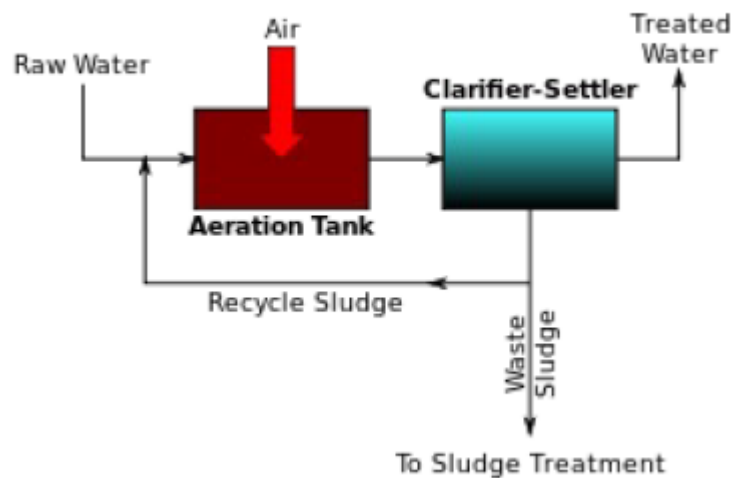
Ponds of activated sludge

What about the “Activated sludge process”?

The activated sludge process is a biological process of wastewater treatment. This process consists in degrading the organic load by introducing diverse bacteria. When they are charged and aerated, the bacteria create the activated sludge which degrades the carbon composites present in every molecules of the organic load. Then, those bacteria are eaten by the microorganisms living in the waste water.



How does it work?

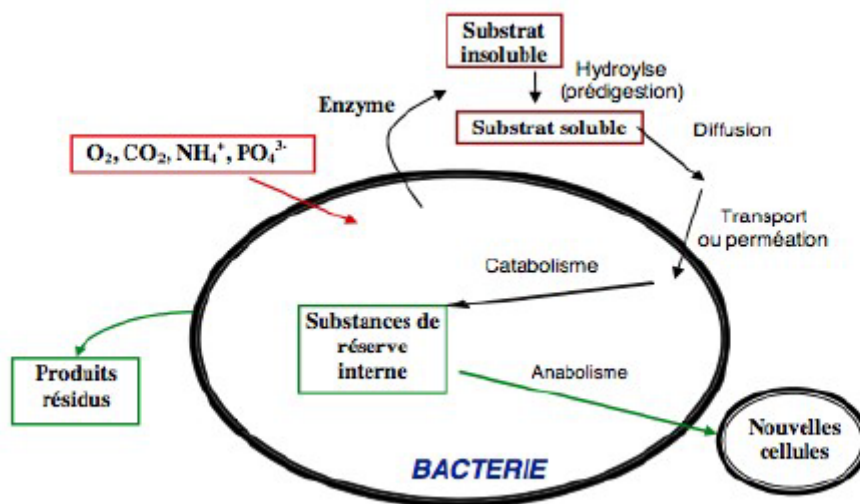


The activated sludge eats the carbon composites to quickly remove the carbonaceous pollution. This ecological wastewater treatment does not use chemical products and eliminates phosphorus, carbon and nitrogen that are necessary to the activated sludge process.

Thanks to the activated sludge and its aeration, there are no bad smells.

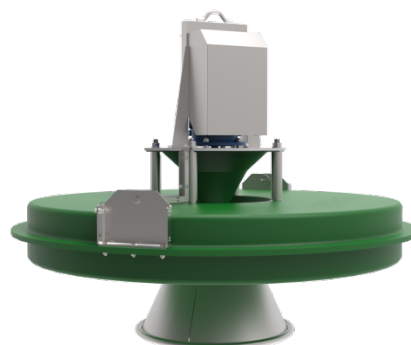
In order to suppress the carbon composites present in water, the activated sludge need oxygen so it is important to bring the oxygen supply required into the pond. Without this process, the biological treatment of wastewater would not be possible.

To obtain the most intensive rhythm of biological oxidization, a minimal oxygen concentration of 0.5 mg.L-1 is necessary into the aeration tank. With an oxygen concentration of 2 mg.L-1, the nitrification of the nitrogen substances will be possible.



Our aerators such as FLOPULSE – surface aerator with fast turbine – bring an artificial aeration to your activated sludge and keep an intensive metabolism of your microorganisms to optimize your wastewater treatments by the activated sludge process.

Moreover, the strong brewing power of FLOPULSE creates a homogeneous mixture of the activated sludge with your effluents. This step is indispensable for the efficiency of the process.



Representation of FLOPULSE