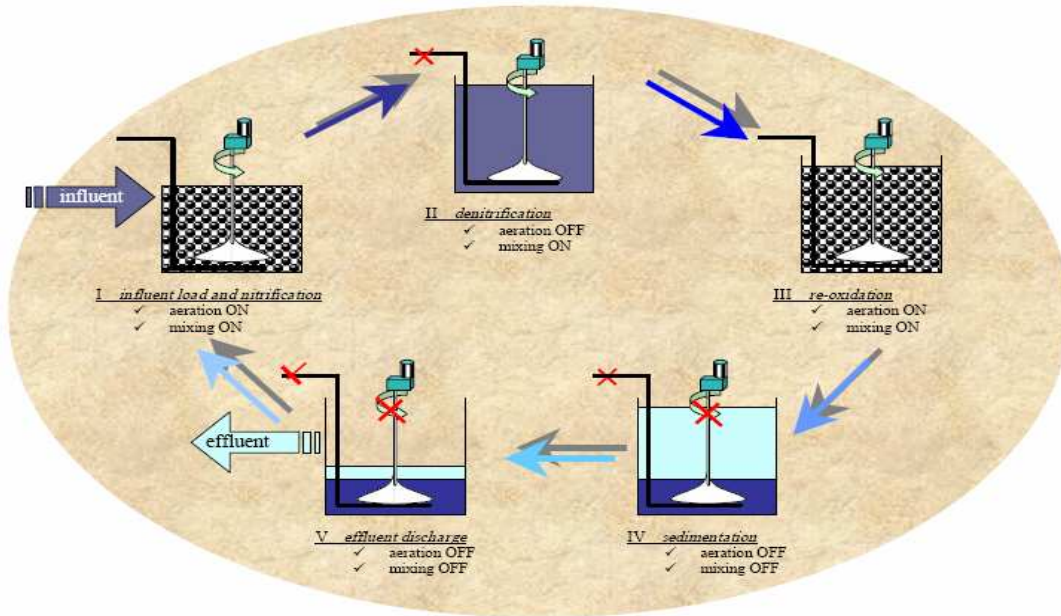


ADVANCED SBR PLANTS

Colloide have consolidated know how in the application of SBR technology, integrated with special mixing and aeration systems



SBR Process Description

The influent wastewater enters the SBR tank during the programmed load time (I). Both aeration and mixing (or only mixing) phases allow nitrification and denitrification (II) of the nitrogen present in the wastewater.

At the end of the treatment, the aeration and mixing stop and the biological sludge settles (IV) in the reactor.

The treated effluent is then collected from the top of the SBR tank (V)

Application and Advantages

SBR technology has applications in the treatment of many fields including municipal wastewater leachate and industrial wastewaters.

Advantages are:

- Compact plants
- High depuration yields, especially for difficult streams.
- Complete automation and remote operation of the plant
- No bulking problems,
- No recirculation pumps and minor energetic consumption
- High reliability and easy operating
- Flexible plants



Colloide Engineering Systems Ltd

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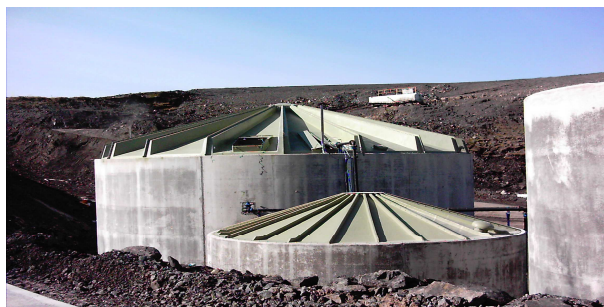
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Integration with innovative mixing and aeration systems

SBR plants need a good mixing and a non—clogging aeration system because sludge sedimentation occurs directly in the oxidation basin. Colloide use proven aeration and mixing systems, the final choice dependent on the liquid to be treated.



Plant performance

Due to the flexibility and high levels of performance, we can use our SBR plants on a wide range of wastewaters.

The SBR performs particularly well in the treatment of effluent highly loaded in both COD and/or Ammonia, achieving up to 98% removal of bio-degradable COD and total removal of Ammonia.

It has also excellent nutrient removal properties.

In all cases, the plant is designed specifically for the particular wastewater.



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