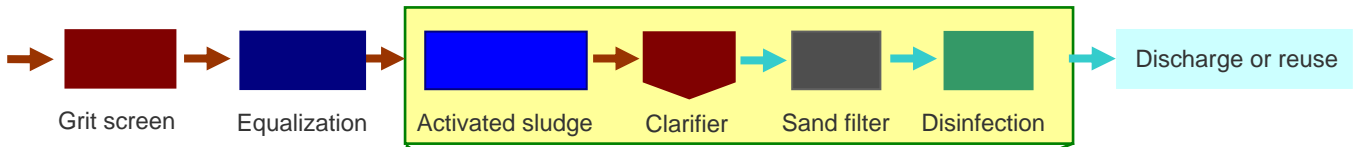
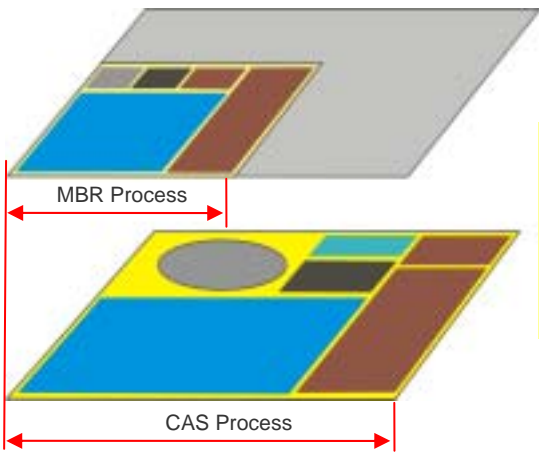
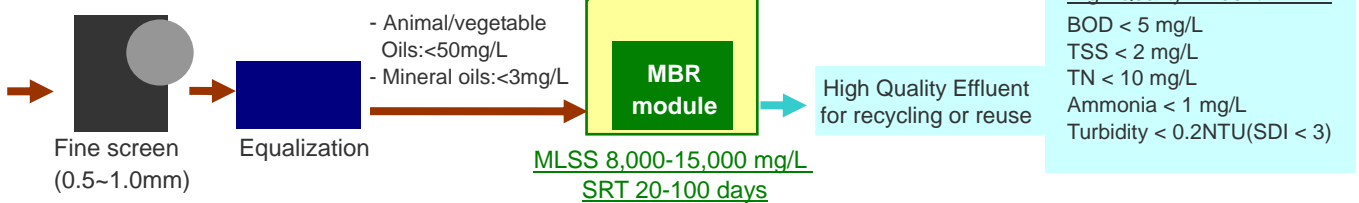


Conventional Activated Sludge(CAS) and MBR process Comparison

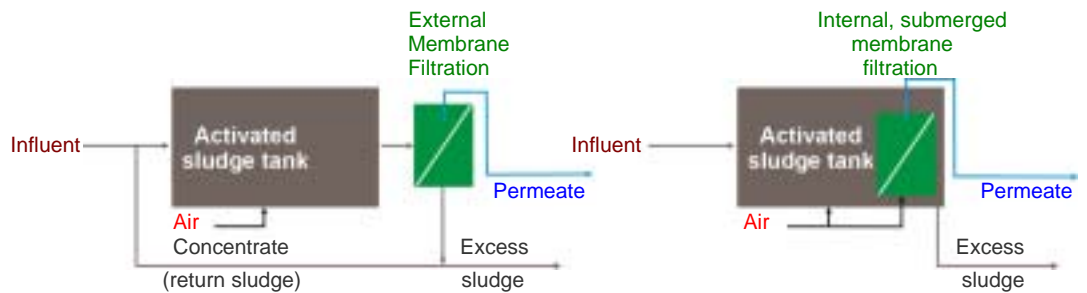
CAS process



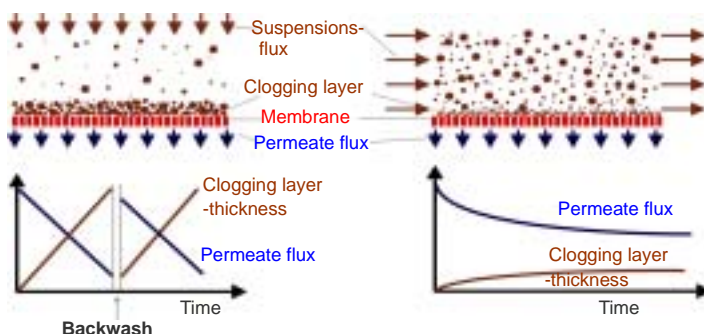
MBR process



The MBR systems have a 1/2 smaller footprint than conventional treatment systems, produce consistent effluent quality even with varying influent conditions, and provide effective treatment for double wastewater flow rate with existed conventional system and reduce sludge volume.



In general there are two different possibilities to integrate the MBR module in a wastewater treatment plant: submerged directly into the aeration tank or submerged in a separate filtration tank. The advantages for the integration into the aeration tank are the lower energy demand due to higher oxygen transfer efficiencies and there is no required recirculation. The advantages of the integration in a separate filtration tank are better options for membrane cleanings and therefore a higher operational safety.



Ecologix's MBR modules assemblies by Cross-flow pattern prevent solids accumulation as the membrane surface while also eliminating areas of conflicting currents that result in "dead zones".