

Competitor Comparison - Flow-Through Systems

Condition	AquaSBR®	Flow-Through
Dissolved oxygen is too high	Switch to DO mode	Limited turndown if no separation of aeration and mixing
Dissolved oxygen is too low	Increase air time	
Settling is too slow	Increase settling time	Potential washout
Nitrates ($\text{NO}_3\text{-N}$) high in effluent	Increase anoxic time	Speed up RAS pumps (if possible)
Ammonia ($\text{NH}_3\text{-N}$) high in effluent	Increase aeration time	
Diurnal peaks exceed design	Equalized in batch	Peaks carry through system
Flows exceeding design average	Normal operation	Higher clarifier loading rates
Maximum daily flow received	Normal operation	Maximum clarifier loading rates
Flows exceed maximum design	Automatic cycle advancement	Potential washout