



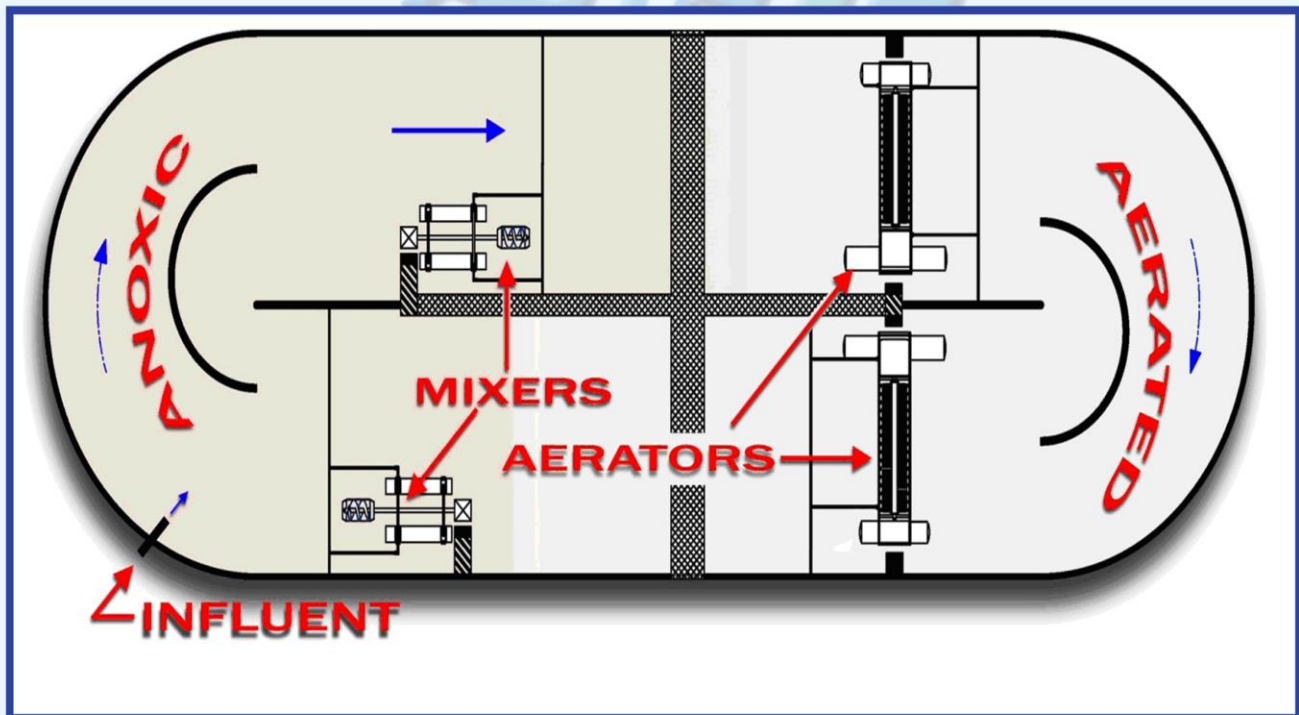
**ANOXIC-AEROBIC  
OXIDATION DITCH**

## Automated On/Off Oxidation Ditch System with Anoxic Zone for Denitrification

### System Operating Parameters

#### *Activated Sludge - Nitrification/Denitrification - BNR ON/OFF Operation for Energy Savings*

- \* The Airoflo Floating Brush Rotor provides the combination of high O<sub>2</sub> transfer rates with the big plus of outstanding MIXING.
- \* With the robust dynamics of the Airoflo Rotor, individual units (or the complete system) can be shut down intermittently without concerns of being able to quickly regain the proper levels of mixing and aeration.
- \* Airoflo Floating Directional Mixers (low speed/high volume) create an anoxic zone to facilitate the denitrification process
- \* The automation is designed around the Optic DO Probes and a PLC based control to provide an operator friendly system.



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## Utilize Existing Basin To Create Well Mixed Aerobic and Anoxic Zones for Nitrogen Removal



### Nr'G MI\$ER BENEFITS

- \* Energy Savings
- \* Process Automation & Operator Workload Reduction
- \* Longer Equipment Life Cycle
- \* Reduced Maintenance Costs & Labor
- \* Alkalinity Recovery with Denitrification

- \* **OPTIONAL** Remote Site Monitoring -
- \* Operator Support and Re-allocation of Time Management

