

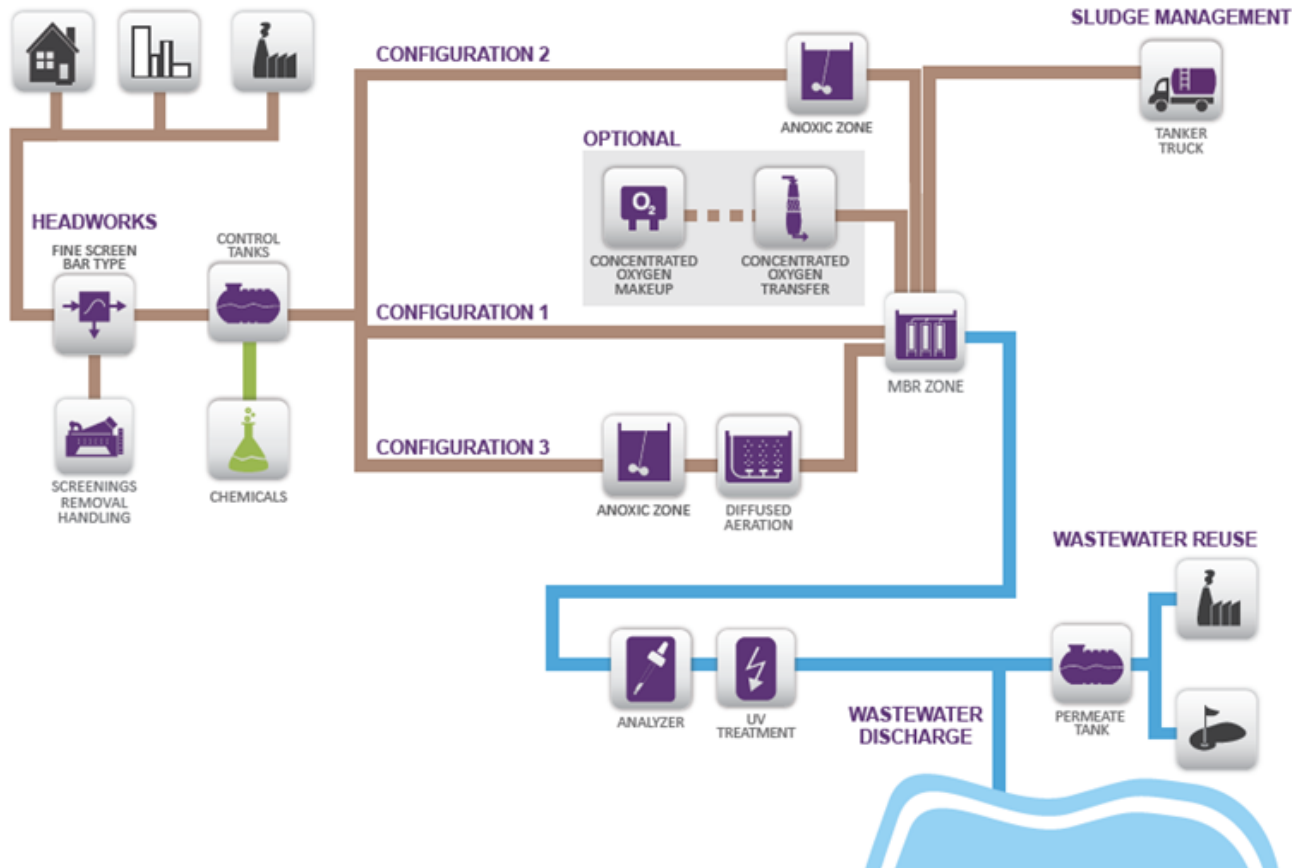
## One Design

But two standard sizes (28ft and 45ft) and many options to choose from depending on project needs



# Flowsheet Options

Conventional MBR or high-rate using concentrated oxygen



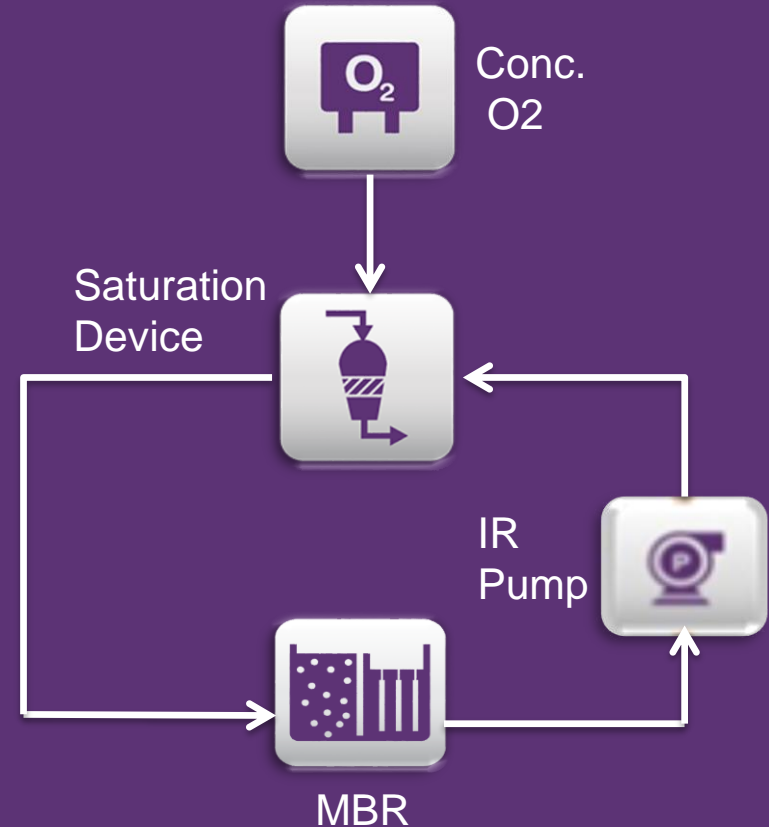
### Supplemental Oxygen System

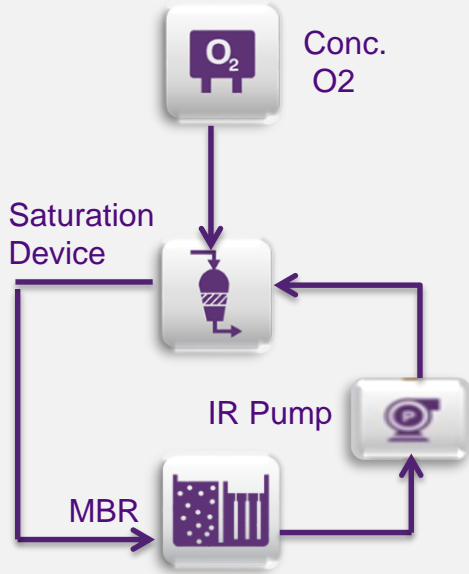


Options for delivering supplemental O<sub>2</sub> depending on AOR

- Option 1- Membrane air scour
- Option 2- Air/ Mazzei
- Option 3- O<sub>2</sub>/ Mazzei
- Option 4- O<sub>2</sub>/Speece Cone

- 93% concentrated O<sub>2</sub>
- Safe- on demand O<sub>2</sub> generation
- VSA technology

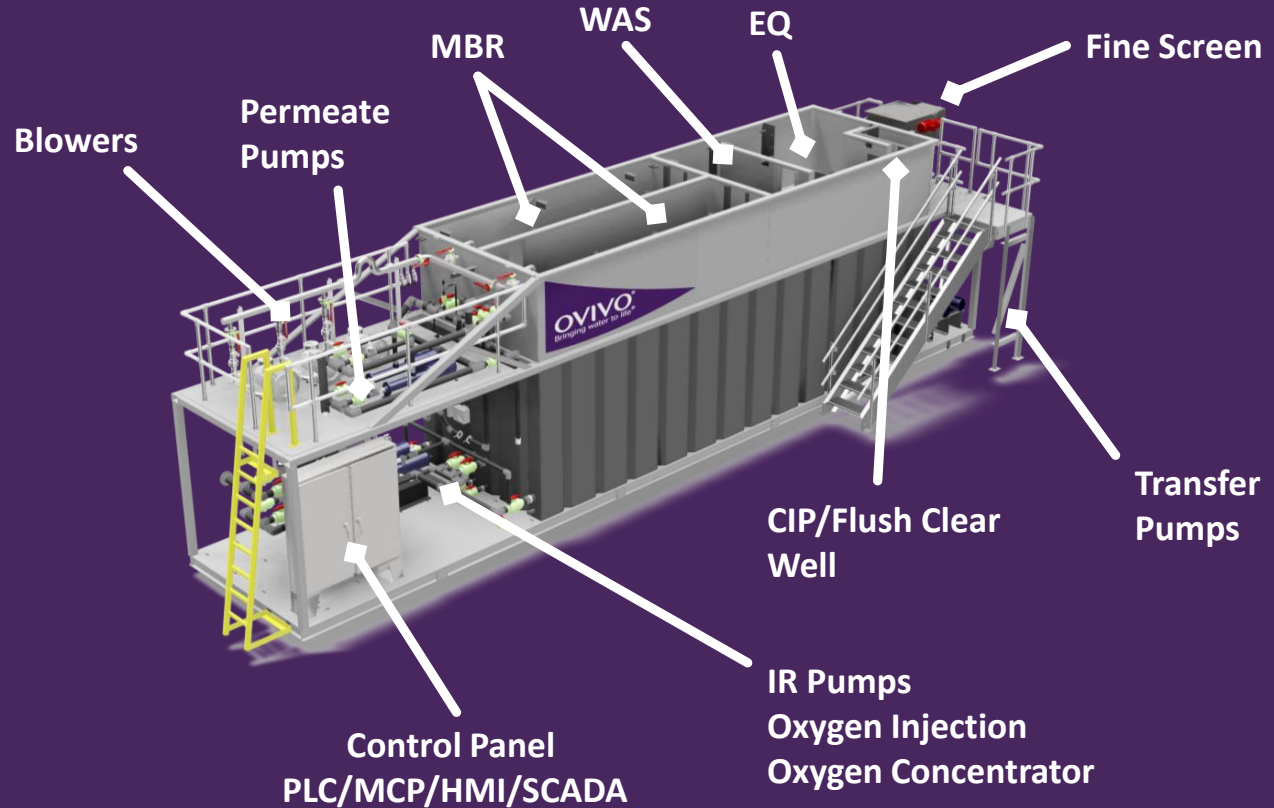




PCI DOCS80

Speece Cone

- **Process Intensification**
- **Modular**
- **Ready to operate**



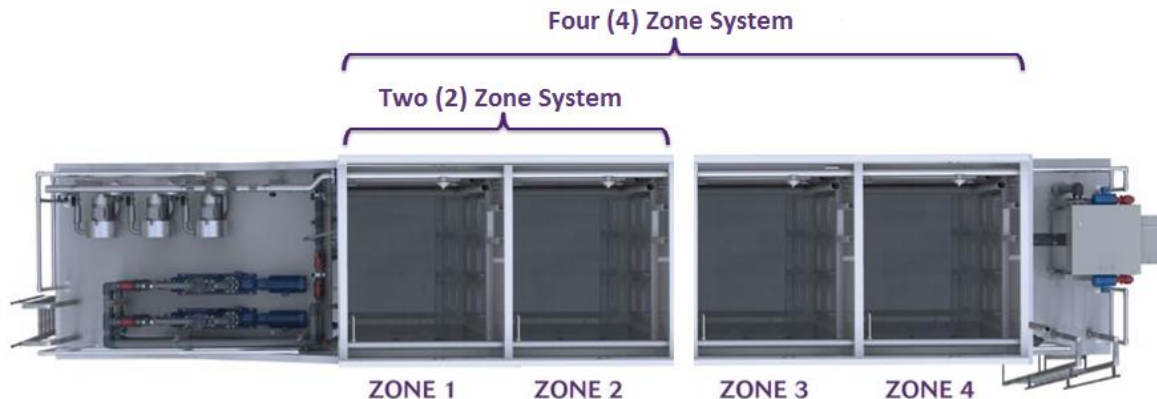


How do we  
do it?

This is how.

Use flexible zones and  
standard subsystems as  
building blocks

## Flexible Zones and Standard Subsystems



## Zone Options



MBR Zone  
One OV100  
One Diffuser



MBR Zone  
Two OV100's



MBR Zone  
One OV400



EQ or WAS  
Zone



ANOXIC  
Zone

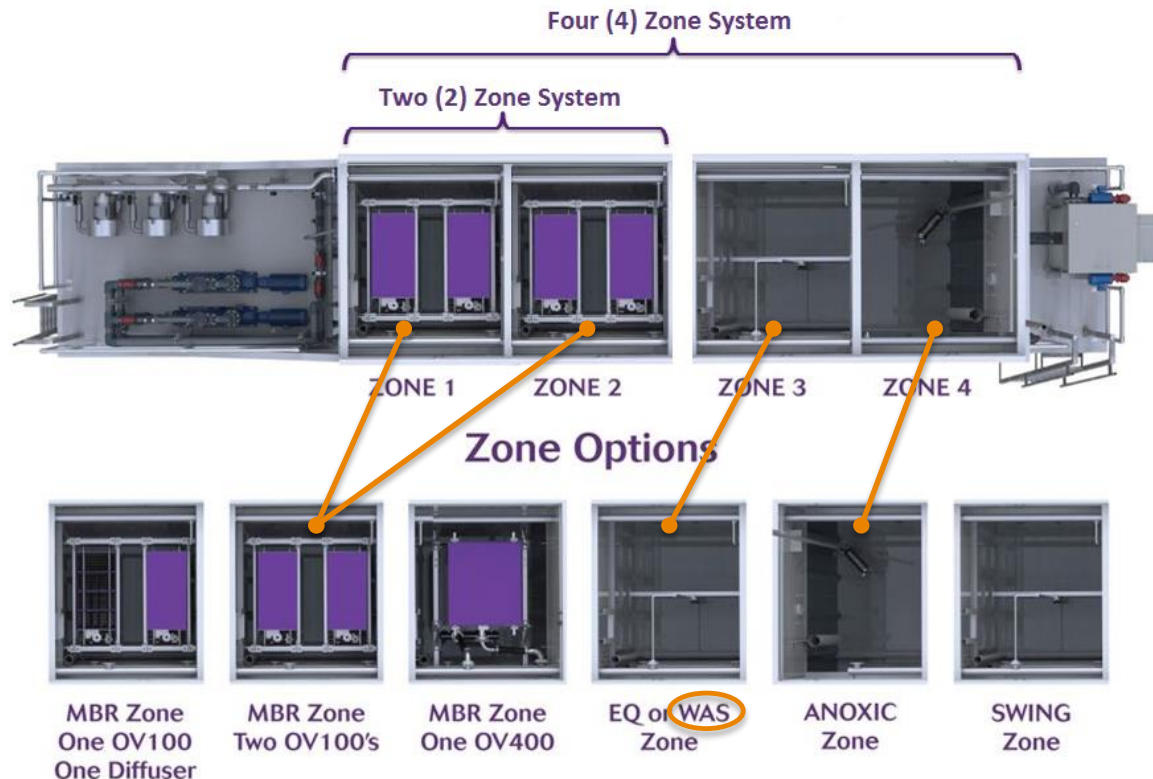


SWING  
Zone

## As an Example

Four Zone 2 Stage System with Dual MBR Zones, Anoxic and Sludge Storage

### Flexible Zones and Standard Subsystems



# Tule River Tribe

Tribal project, new reservation treatment facility for residence, commercial building and casino.



Flow:	75,000 gpd
BOD Inf   Eff:	300 mg/L   5 mg/L
TN Inf   Eff:	40 mg/L   10 mg/L
NH3 Inf   Eff:	28 mg/L   1 mg/L
TP Inf   Eff:	8 mg/L   N/A





# Turks & Caicos Day Resort

Land based Cruise Center. Replaced failing SBR system



Flow:	24,000 gpd	
BOD Inf   Eff:	500 mg/L	10 mg/L
TN Inf   Eff:	140 mg/L	30 mg/L
NH3 Inf   Eff:	112 mg/L	1.5 mg/L
TP Inf   Eff:	15 mg/L	10 mg/L



# Sturbridge Travel Center

Travel Center with motel.  
Replaced to failing RBC system



Flow:	25,000 gpd
BOD Inf   Eff:	400 mg/L   10 mg/L
TN Inf   Eff:	60 mg/L   5 mg/L
NH3 Inf   Eff:	45 mg/L   1 mg/L
TP Inf   Eff:	8 mg/L   N/A

