

### Professionals in water!

Solutions and systems within the potable water, waste water and process water industry.

RWB differentiates itself by supplying standard systems on the one hand and by developing custom made solutions on the other hand. By keeping all disciplines, like engineering, process management,

assembly, commissioning and maintenance in-house and also because of a 24/7 service, RWB can offer a complete package in water treatment. That is our added value!

## RWB's services

- Process technology
- Engineering
- System realization
- Service









## Rwb

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# WATER REUSE FOR INDUSTRY

## Reclaimed water with Ozonizer and Ceramic Membrane filtration



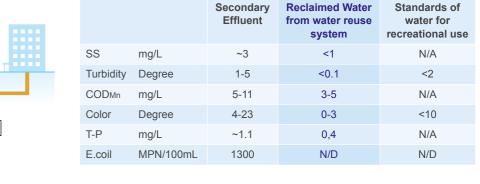


## WATER REUSE SYSTEM **FLOW DIAGRAM**

#### Information:

- · Location: Municipal waste water treatment plant
- Capacity: 7000 m<sup>3</sup>/day, expansion up to 21.000 m<sup>3</sup>/day
- Usage: Water for public fountains, washing and flushing toilets
- Further treatment: Reverse osmosis to produce process water for the industry

Ozone





#### **Biological Treat**ment Process (optional)

Nitrification with biofilter to reduce ozone consumption at the ozonation stage. [Targets removed] NH<sub>4</sub>, NO<sub>2</sub>, SS



Ozonation **Process** 

#### Ozone Generation **Facility**

High efficiency ozone generation through the supply of oxygen

Ceramic membrane equipment



#### **Ozonation Process**

Odor/color removal. disinfection and refining of fine particles by ozonation. [Targets removed]

Color, odor, organics,

bacteria, viruses



#### Coagulation / **Flocculation Process**

Coagulation / flocculation of SS to prevent membrane fouling. [Targets removed] SS (organic substances, phosphorus, viruses etc.)



Coagulation

**Flocculation Process** 

**Biological Treat-**

ment Process

(optional)

#### **Ceramic Mem**brane Filtration **Process**

brane Filtration

Coagulation tank

Municipal waste water

Coagulant

To air

Secondary effluent

Sewage line

Ozone Generation

Filtration of coagulated water using µm MF ceramic membrane to remove micro-flocs [Targets removed] Turbidity, bacteria





Water for washing



Water for public

Reclaimed water









Reverse Osmosis

Toilet flushing in