

# Questionnaire – Denitrification/Phosphorus elimination

OLOID – Agitate, Circulate, Aerate

In order to quickly clarify whether this energy-saving technology is suitable for your application, please fill out this questionnaire as far as possible and to send to us by e-Mail.

## Questionnaire

### 1. Project type

- 1.1 New
- 1.2 Conversion
- 1.3 Expansion
- 1.4 Process optimisation
- 1.5 Another type  Short description: .....
- .....

### 2. Water origin

- 2.1 Municipal wastewater
- 2.2 Only commercial / industrial
- 2.3 commercial / industrial + domestic company sewage
- 2.4 Type of wastewater:  Short description: .....
- .....

### 3. Wastewater pre-treatment

- 3.1 Rake system
- 3.2 Strainer
- 3.3 Grit
- 3.4 Buffer basin
- 3.5 Other pre-treatment  Short description: .....
- .....

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## 4. Basin geometry and volume

- 4.1 Width of basin: ..... m
- 4.2 Length of basin: ..... m
- 4.3 Diameter of basin: ..... m
- 4.4 Water height: min ..... m  
max ..... m  
median ..... m
- 4.5 Basin content: min ..... m<sup>3</sup>  
max ..... m<sup>3</sup>  
median ..... m<sup>3</sup>

## 5. Wastewater volumes

- 5.1 Daily value: min ..... m<sup>3</sup>/d  
max ..... m<sup>3</sup>/d  
median ..... m<sup>3</sup>/d In relation to..... d/a
- 5.2 Weekly value: min ..... m<sup>3</sup>/w  
max ..... m<sup>3</sup>/w  
median ..... m<sup>3</sup>/w In relation to..... w/a
- 5.3 Hourly value: min ..... m<sup>3</sup>/h  
max ..... m<sup>3</sup>/h  
median..... m<sup>3</sup>/h In terms of average time  
of daily wastewater production:  
..... Hourly average

## 6. Mode and operating parameters

- 6.1 Operation mode of basins:
- Continuous loading with waste water
  - Discontinuous loading with waste water
  - Operation of the basin after the SBR process (Sequence Batch Reactor)

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- Circuit to the denitrification stage:
  - Upstream denitrification
  - Downstream denitrification
  - Simultaneous denitrification
  - Alternating denitrification
  
- Circuit of P elimination basin:
  - Anaerobic stage in first place of biology  
(anaerobic, anoxic and aerobic)
  
  - Operation of the basin after the „Johannesburg-process“  
(JHB-process, anaerobic, anoxic and aerobic)
  
  - Anoxic stage in first place of biology  
(anaerobic, anoxic and aerobic)
  
  - Operation of the basin after the „University of Cape Town-process“  
(UCT- process, anaerobic, anoxic and aerobic)

### 6.2 Operating parameters

- Temperature: min ..... °C  
                                     max ..... °C  
                                     Daily average ..... °C
- pH-value:     Daily average .....
- Activated sludge concentration:
  - min ..... mgTSS/l
  - max ..... mgTSS/l
  - Daily average ..... mgTSS/l
- Organic content of the activated sludge:
  - Average ..... mgTSS/l

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## 7. Waste water inlet and outlet / return sludge feed

### 7.1 Waste water inlet

Short description: .....  
.....  
.....

### 7.2 Return sludge feed

Short description: .....  
.....  
.....

### 7.3 Waste water outlet

Short description: .....  
.....  
.....

## 8. Further attachments

It would serve the Inversions Technik GmbH if sketches or plans of the pools and the circuit could be attached.

Company: .....

Name: .....

Place and date: .....

Signature: .....