



# Diffused Aeration System Design Questionnaire

Date: \_\_\_\_\_

Name: \_\_\_\_\_

Project Name: \_\_\_\_\_

Company: \_\_\_\_\_

Location: \_\_\_\_\_

Address: \_\_\_\_\_

Representative Firm: \_\_\_\_\_

City/State: \_\_\_\_\_

Rep Contact: \_\_\_\_\_

Zip & Country: \_\_\_\_\_

Phone: \_\_\_\_\_

Email: \_\_\_\_\_

Request Date: \_\_\_\_\_

Application: Industrial Municipal

Basin Configuration: New Construction Existing Basin(s)

### Influent Flow

Average Daily Flow: \_\_\_\_\_ GPD m<sup>3</sup>/d

Max Month Avg. Flow: \_\_\_\_\_ GPD m<sup>3</sup>/d

Max Month Peak Flow: \_\_\_\_\_ GPD m<sup>3</sup>/d

Peak Hourly Flow: \_\_\_\_\_ GPD m<sup>3</sup>/d

### Existing Basin Configuration

Number of Basins: \_\_\_\_\_

Water Depth (ft.): \_\_\_\_\_

Length and Width (ft.): \_\_\_\_\_

Diameter (ft.): \_\_\_\_\_

Slope Floor: \_\_\_\_\_

### Process Type

Equalization Aerobic Digestion Sludge Holding Biological Treatment Aeration BNR

Other: \_\_\_\_\_

### Influent Parameters

BOD<sub>5</sub> (mg/l): \_\_\_\_\_

TSS (mg/l): \_\_\_\_\_

TKN (mg/l): \_\_\_\_\_

NH<sub>3</sub>-N (mg/l): \_\_\_\_\_

Total P (mg/l): \_\_\_\_\_

FOG (mg/l): \_\_\_\_\_

pH: \_\_\_\_\_

Alkalinity mg/l (as CaCO<sub>3</sub>): \_\_\_\_\_

WW Temp. Range: \_\_\_\_\_ C F

Ambient Temp. Range: \_\_\_\_\_ C F

Site Elevation: \_\_\_\_\_ ft m

### Effluent Parameters

BOD<sub>5</sub> (mg/l): \_\_\_\_\_

NH<sub>3</sub>-N (mg/l): \_\_\_\_\_

TN (mg/l): \_\_\_\_\_

Total P (mg/l): \_\_\_\_\_

Upon completion of questionnaire, please email to [info@aquariustechnologies.com](mailto:info@aquariustechnologies.com)



**Process Parameters**

SOR (lb/day): \_\_\_\_\_ Existing Blower Capacity (SCFM): \_\_\_\_\_  
AOR (lb/day): \_\_\_\_\_ Existing Blower Capacity (psig): \_\_\_\_\_  
Alpha ( $\alpha$ ): \_\_\_\_\_ MLSS (mg/L): \_\_\_\_\_  
Mixing Application (SCFM provided): \_\_\_\_\_

**Information Requested:**

Preliminary Design – Equipment Summary – Budget Price

Complete Design – Specifications – Layout Drawing – Budget Price

Please attach applicable supporting documents.

**Additional Information:**