

# Tideflex<sup>®</sup> Coarse Bubble Mixing & O2 Systems Design Data Form

---

*Click on box and input value. Units box will expand for Imperial (US) or International System of Units (SI) designation.*

## GENERAL INFORMATION

**Project Identification Name:**

Facility Name:

Location:

Address:

Facility Supervisor:

Phone:

Fax:

Email:

Consulting Engineering Firm:

Location:

Address:

Engineer Contact:

Phone:

Fax:

Email:

## DIFFUSED AERATION REQUIREMENT

Oxygen Transfer & Adequate Mixing       Mixing Only       Supplemental Oxygen Only

## GENERAL COMMENTS

---

**Please include tank drawings in AUTOCAD, CAD or scanned PDF format with this data form.**

# Tideflex® Coarse Bubble Mixing & O2 Systems Design Data Form

## TANK / BASIN GEOMETRY

Total Number of Tanks:  Parallel Operation  Series Operation  
Tank Bottom Material:  Concrete  Steel  Plastic/Fiberglass  Clay  
Bottom Elevation Above Mean Sea Level (MSL):

### Rectangular Tank or Channel (Straight Sidewall)

Length:                      Width:                      Side Wall Height:

Additional V-Bottom Depth (at centerline of V):

Bottom Slope (if sloped to end of tank):                      [%]

Operating Water Depth:

### Circular (Flat Bottom)

Diameter:                      Side Wall Height:                      Bottom Slope to Center [%]:

Operating Water Depth:

### Circular (Conical Bottom)

Diameter:                      Side Wall Height:                      Cone Depth at Center:

Operating Water Depth (top of cone to water level):

### Horizontal Circular

Diameter:                      Horizontal Length:                      Flat Ends                       Domed Ends                       Open Top

Manway Access Diameter:                      Manway Location (from end of tank):

Operating Water Depth (measured at centerline to water level):

### Rectangular Lagoon

Top Length:                      Top Width:

Water Surface Length:                      Water Surface Width:

Bottom Length:                      Bottom Width:                      Sidewall Slope [%]:

Operating Water Depth:

### Fluid Operational Method

Constant Liquid Level                       Variable Volume Liquid Level

**Please include tank drawings in AUTOCAD, CAD or scanned PDF format with this data form.**

# Tideflex® Coarse Bubble Mixing & O2 Systems Design Data Form

## WASTEWATER CHARACTERIZATION

Operating Mixed Liquor Suspended Solid (MLSS) Concentration

Wastewater Operating Temperature

Actual Oxygen Required (AOR)

Air Flowrate Available

Waste Sludge Flowrate

Solids Concentration in Influent

Sludge Concentration in Tank

Actual Oxygen Required (AOR)

Air Flowrate Available

## PROCESS FLUID DESCRIPTION

Raw Municipal Wastewater, Waste Aerobic Sludge, Grit Fluid, MLSS Fluid, Food Waste, etc.

## AERATION SYSTEM PIPING MATERIALS

Drop Pipe Schedule 10 – 304L Stainless Steel

Submerged Manifold Piping Schedule 10 – 304L Stainless Steel

Drop Pipe Schedule 10 – 316L Stainless Steel

Submerged Manifold Piping Schedule 10 – 316L Stainless Steel

American Iron and Steel (AIS)  Import Supply of Metals

Domestic Supply of Metals

## DIFFUSER RETROFIT INFORMATION

Brand Name of Existing Diffusers / Description:

Total Number of Diffusers per Tank:

Threaded Connection Diameter:

Maximum Operating Airflow per Tank:

Maximum Operating Airflow per Diffuser: