Tideflex® Mixing System For Finished water storage facilities DESIGN DATA SHEET

I. GENERAL INFORMATION

Reservoir/Tank Name:

Project Location:

CIRCULAR	RECTANQULAR	STANDPIPE

Advertises on Bids on

(mm-dd-yyyy)	

ELEVATED

Water Utility/Owner Name:	
Owner Contact:	
Email:	
Address:	
City:	State:
Zip:	Country:
Phone:	Fax:

Consulting Engineering Firm:	
Engineer Contact:	
Email:	
Address:	
City:	State:
Zip:	Country:
Phone:	Fax:

II. SYSTEM INFORMATION

INSTALLATION:	SCADA: Tank on SCADA?	WATER SOURCE: Surface Water Reclaimed Water Ground Water
OPERATION: Distribution System Reservoir Clearwell Combination	MODE: Fill-then-draw Simultaneous fill and draw	PRIMARY DISINFECTION: Chlorine UV Chloramine Ozone None
HIGH WATER LEVEL SHUTOFF:		SECONDARY DISINFECTION:

III. RESERVOIR / TANK DATA (Provide tank drawings if available. See nomenclature on page 4.)

TYPE OF RESERVOIR / TANK:		Tank Manufacturer or Basis of Design:	
Circular Reservoir Irregular Shape		At Grade Semi-Buried	
Rectangular Reservoir		Buried	
Standpipe			
Elevated Tank	Dry Riser	Sphere/Spheroid Composite	Hydropillar
	UWet Riser	Wet Riser Diameter ft in] m

TANK DETAILS: (Provide tank drawings if available. See nomenclature on page 4.)						
VOLUME: Image: MG image: M						
Circular Reservoir / Standpipe Eleva		Elevated Ta	ank Rectangular Reservoir		Reservoir	
	ft 🗌 m		ft 🗌 m		🗌 ft 🗌 m	
Tank Diameter:		Bowl Diameter:		Length x Width	х	
Depth to Maximum		Hood Dongo		Depth to Maximum		
Operating Level		Head Range:		Operating Level		
		Height From Foundation				
Depth to Overflow		to Overflow		Depth to Overflow		
		Height from Foundation				
		to Max. Operating Level		Number of Cells	1	
Bottom Elevation:		Foundation Elevation:		Bottom Elevation:		
 Welded Steel Prestressed Co Composite (Ele 	ncrete	Ited Steel (conc. floor) st-tensioned Concrete rthen Lined		el (steel floor)	veted Steel	
TYPE OF ROOF /	COVER:					
Fixed Roof	Internal Roof	Supports? 🗌 yes 🗌 no	D Floating	Cover 🗌 None	, Open Reservoir	
a common inlet/out Common Inlet/C Inlet Diameter Outlet Diameter	tlet pipe, complete Dutlet Pipe S in C in C Outlet have Silt S	• _• _	e TMS separat Pipes Pend Pend D fixed pipe		sidewall 🗌 top	
Does tank have a dedicated drain pipe? yes no						

V. HYDRAULIC DATA

Minimum Fill Rate: Maximum Fill Rate:	 gpm 🔲 lps 🗌	Pumped Gravity
Maximum Draw Rate: peak demand + fire flow (if applicable)	gpm 🗌 lps 🗌	Pumped Gravity

VI. TANK FLUCTUATION / TURNOVER DATA (With one of the methods below, provide data on

the typical, or expected, daily fluctuation of tank levels in summer and winter, if different. *See nomenclature, page 4)

	Meth	nod 1	Method 2	Method 3
	Max. Operating Level* Min. Operating Level*		% (percent)	Volume Exchange
Summer	☐ ft	🗌 ft		🗌 gallons/day
Winter	m	m		☐ liters/day

VII. REFROFIT INFORMATION

VIII. WATER QUALITY ISSUES

Year Tank Constructed:		Identify Water Quality Issues
Date of Last Inspection:		Loss of Residual
Date of Last Rehab/Repaint:		DBPs > TTHM HAA5
Next Scheduled Rehab:		Coliform Bacteria
Internal Baffles?	🗌 yes 🔲 no	Nitrification
Ice Formation?	🗌 yes 🗌 no	Elevated HPC
Water Temperature Range	min	Biofilms
□ °F □ °C	max	Taste & Odor
Size of Largest Roof Hatch	🗌 dia 🗌 sq.	Increased pH
Size of Largest Shell Hatch	🗌 dia 🗌 sq.	
Rechlorination/Recirculation		
Sytems Installed?	🗌 yes 🔲 no	
Are Sampling taps installed?	🗌 yes 🗌 no	Identify known/suspected causes:
Samples been taken at different		Poor Mixing
locations/depths inside the tank?	🗌 yes 🔲 no	Short-Circuiting
Has a tracer study, CFD, or		Poor Turnover / Tank Fluctuation
scale model been done?	🗌 yes 🔲 no	Long Detention Time
		Thermal Stratification
		High Levels of Organics

IX. OVERFLOW PIPE PROTECTION

Check method used to prevent birds, rodents, cold drafts, etc. from entering tank thru overflow pipes

Overflow Pipe Size:	in mm			
Tideflex Valve	Overflow Security Valve (OSV)	Screen	Flap Valve	

X. COMMENT

PLEASE MAIL, FAX OR E-MAIL COPIES OF TANK DRAWINGS, INSPECTION REPORTS/PHOTOS TO: Tideflex Technologies 600 North Bell Ave. Carnegie, PA 15106 USA PHONE: 412-279-0044 FAX: 412-279-5410 E-MAIL: mduer@tideflex.com (Mike Duer) or info@tideflex.com

XI. TANK NOMENCLATURE

