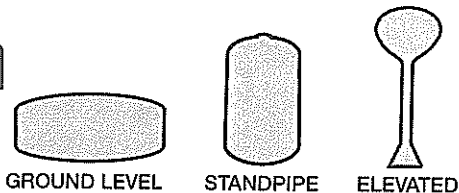


Tideflex® Mixing System

FOR FINISHED WATER STORAGE FACILITIES

FAX: 281-324-4595 DESIGN DATA SHEET



I. GENERAL INFORMATION		RED VALVE AREA REPRESENTATIVE: Valve & Equipment Consultants, Inc. Phone: 281-324-1500	
RESERVOIR/TANK NAME:		PROJECT LOCATION:	
OWNER COMPANY NAME:		OWNER COMPANY ADDRESS:	
PHONE:	FAX:	E-MAIL:	
OWNER CONTACT:		OWNER PROJECT NUMBER:	
CONSULTING ENGINEERING FIRM:		CONSULTANT'S ADDRESS:	
PHONE:	FAX:	E-MAIL:	
ENGINEER CONTACT:		ENGINEER PROJECT NUMBER:	

COMPLETE WITH AS MUCH INFORMATION KNOWN OR APPLICABLE

II. SYSTEM INFORMATION

INSTALLATION:
 NEW TANK EXISTING TANK

WATER SOURCE:
 SURFACE WATER RECLAIMED WATER
 GROUND WATER

TYPE OF DISINFECTION:
 CHLORINE CHLORAMINES
 CHLORINE DIOXIDE OZONE

OPERATION:
 DISTRIBUTION SYSTEM RESERVOIR
 CLEARWELL
 COMBINATION

MODE:
 FILL & DRAW
 FLOW THRU

HIGH WATER LEVEL SHUT-OFF CONTROL:
 BY ALTITUDE VALVE NONE, FLOATS ON SYSTEM
 BY PRESSURE SWITCH

III. RESERVOIR/TANK DATA (CONT'D)

VOLUME OF TANK: _____ gallons, m³

BOTTOM ELEVATION: _____ ft, m (above m.s.l.)

OVERFLOW ELEVATION: _____ ft, m (above m.s.l.)

WATER DEPTH: _____ ft, m

TYPE OF ROOF/COVER:
 FIXED ROOF
 INTERNAL COLUMN SUPPORTS Yes No
 FLOATING COVER
 NONE, OPEN RESERVOIR

MATERIALS OF CONSTRUCTION:
 WELDED STEEL COMPOSITE
 BOLTED STEEL EARTHEN LINED
 RIVETED STEEL
 REINFORCED CONCRETE OTHER _____

III. RESERVOIR/TANK DATA

TYPE OF RESERVOIR/TANK:
 GROUND LEVEL
 CIRCULAR AT GRADE
 RECTANGULAR BURIED
 IRREGULAR SEMI-BURIED
 STANDPIPE
 ELEVATED TANK
 SPHEROID TOROPILLAR
 TOROSPHERICAL DOUBLE ELLIPSOIDAL
 HYDROPILLAR _____

TANK MANUFACTURER: _____

SHELL DIMENSIONS:
 (LxWxH) or (Dia.xH) _____ ft, m

IV. HYDRAULIC DATA

FILL RATE: _____ MIN (gpm, l/s)
 _____ MAX (gpm, l/s)
 PUMPED BY GRAVITY

DRAW RATE: _____ MAX or FIRE FLOW (gpm, l/s)
 PUMPED BY GRAVITY

DIST. SYSTEM LINE PRESSURE AT RESERVOIR DURING FILLING
 _____ MIN (psi, kN/m²)
 _____ MAX (psi, kN/m²)

V. CATHODIC PROTECTION SYSTEM

- PASSIVE SACRIFICIAL NONE
 IMPRESSED CURRENT

VI. INLET/OUTLET PIPING (NEW OR EXISTING TANK):

NEW TANK

PIPE DIA. SUPPLYING RESERVIOR _____ (in, mm)
 PIPE MATERIAL _____

TANK PENTRATION FLOOR SIDE WALL

EXISTING TANK

COMMON INLET/OUTLET

PIPE DIA. _____ (in, mm)
 IS PIPE LOCATED IN A SUMP? Yes No
 PIPE MATERIAL _____
 TANK PENTRATION FLOOR SIDE WALL

SEPARATE INLET/OUTLET

INLET PIPE DIA. _____ (in, mm)
 IS PIPE LOCATED IN A SUMP? Yes No
 PIPE MATERIAL _____
 TANK PENTRATION FLOOR SIDE WALL

OUTLET PIPE DIA. _____ (in, mm)
 IS PIPE LOCATED IN A SUMP? Yes No
 PIPE MATERIAL _____
 TANK PENTRATION FLOOR SIDE WALL

FINAL TANK DRAIN THRU:

- COMMON INLET/OUTLET PIPE SEPARATE DRAIN PIPE
 OUTLET PIPE ONLY

VII. OVERFLOW PIPE PROTECTION

Check method used to prevent birds, rodents, ect. from entering tank through overflow pipe

- TIDEFLEX VALVE
 SCREEN + FLAP VALVE
 SCREEN ONLY
 NONE

VIII. RETROFIT INFORMATION (In addition to III.)

YEAR TANK CONSTRUCTED _____
 DATE OF LAST INSPECTION _____
 DATE OF LAST REHAB./REPAINT _____
 DESCRIBE WORK DONE _____

NEXT SCHEDULED REHAB: _____
 INTERNAL BAFFLES: Yes No
 ICE FORMATION: Yes No
 AVERAGE DRAWDOWN: _____ (ft, m)
 WATER TEMPERATURE RANGE _____ MIN (°F, °C)
 _____ MAX (°F, °C)

SIZE OF LARGEST ROOF HATCH (DIA. SQ.) _____ (in, mm)
 SIZE OF LARGEST SHELL HATCH (DIA. SQ.) _____ (in, mm)
 SILT STOP Yes No
 FIXED PIPE EXTENSION REMOVABLE
 RECHLORINATION/RECIRCULATION SYSTEMS Yes No
 ARE SAMPLING TAPS INSTALLED? Yes No
 HAS WATER QUALITY BEEN MONITORED AT THE TANK? Yes No
 HAS A TRACER STUDY OR CFD MODEL BEEN DONE? Yes No

VIII. RETROFIT INFORMATION (CONT'D)

IDENTIFY WATER QUALITY ISSUES ASSOCIATED WITH RESERVOIR

- LOSS OF DISINFECTANT RESIDUAL
 COLIFORM BACTERIA
 ELEVATED HPC BACTERIA
 NITRIFICATION
 ALGAE GROWTH
 BIOFILM GROWTH
 DISINFECTION BY PRODUCTS (DBP)
 THM'S
 OHAAS
 TASTE & ODOR
 INCREASED pH
 IRON & MANGANESE BUILD-UP
 LEAD/COPPER
 HYDROGEN SULFIDE
 LEACHATE FROM COATINGS
 SEDIMENT BUILD-UP
 COLOR
 TURBIDITY

IDENTIFY POSSIBLE CAUSATIVE FACTORS TO THE ABOVE

- POOR MIXING
 SHORT-CIRCUITING/STAGNANT ZONES
 POOR TURNOVER
 THERMAL STRATIFICATION
 LONG DETENTION TIME
 ELEVATED TEMPERATURE
 INCREASE IN pH
 LEACHING OF COATINGS
 EXPOSURE TO UV
 HIGH LEVEL ORGANICS

IX. COMMENTS

PLEASE MAIL, FAX OR E-MAIL COPIES OF PLANS, DETAILS AND SHOP DRAWINGS OF TANK, INLET/OUTLET PIPING, ETC. TO:

Valve & Equipment Consultants, Inc.
 P.O. Box 1249 * 24116 Yoakum Street
 Huffman, Texas 77336
 vechome@vecinc.net * www.valveandequipment.com
 PHONE: 281-324-1500 * FAX: 281-324-4595