DESIGN CHLORINE DOSEAGE: 10 mg/L

\[ 3.556 \text{ GPD (2.5 gpm)} \]

DESIGN CAPACITY: 3,556 GPD, 2.5 gpm (MAX); TF = 10 X ADIF

\[ 0.003556 \times 0.297 \text{ lb/d} \times 0.3 \text{ lb/d} \]

CHLORINE REQ'D: 10 x 8.34 x 0.003556 = 0.58 lbs/day

PEAK FLOW REQ'D: 2.5 gpm x 1440 x 10 x 8.34 = 3 lbs/day

NaOCl @ 5.25% Solution: 9 lbs/gal x 0.0525 = 0.47 lbs Cl₂/gal

METERING PUMP CAP (MAX): \[ 0.3 \text{ gpm} \]

\[ 0.64 \text{ gal/day} = 0.027 \text{ gph} \]

METERING PUMP CAP (PEAK): \[ 0.027 \times 10 = 0.27 \text{ gph} \]

CHEMICAL STORAGE CAPACITY (MIN): 0.64 x 30 days = 19.2 gal

(USE STAINLESS STEEL STORAGE TANKS WITH HEAT TRACE & INSULATION)

METERING PUMPS: WATSON-MARLOW 520 UN/REL (2 PUMPS)

FLOW: UP TO 420 M³/min (2200 gpm, 1 SPEED)

PROVIDE INSULATED & HEATED ENCLOSURE

ACTION:

COPY:

www.mckimcreed.com
AVG. FLOW: 10 GPM  CT READ: 30 MIN
PEAK FLOW: 25 GPM  CT REQ'D (10 STATE STDS) = 15 MIN
TANK CAPACITY: 10 GPM x 30 MIN = 300 GAL
   25 GPM x 15 MIN = 375 GAL
USE STD PRECAST CONCRETE, 525 GAL CAPACITY

ACTUAL CT @ PEAK FLOW = \[ \frac{525 \text{ GAL}}{25} = 21 \text{ MIN} \text{ CT} \]