



TABLE HFS 172.14 (August 2007) Minimum Disinfectant Residuals:

Pool Type	Cl ₂ Residual	Total Br ₂
Swimming and Activity Pools		
Swimming and Activity Pool	1.0 ppm	3.0 ppm
Swimming and Activity Pool With Stabilizer	1.5 ppm	N/A
Wading Pools		
Wading Pool	2.0 ppm	4.0 ppm
Wading Pool With Stabilizer	3.0 ppm	N/A
Whirlpool, Exercise, Therapy Pools		
Whirlpool	3.0 ppm	7.0 ppm
Whirlpool With Stabilizer	4.0 ppm	N/A
Water Attractions Other Than Those Specified		
Water Attraction Other Than Those Specified	1.0 ppm	3.0 ppm
Water Attraction Other Than Those Specified With Stabilizer	1.5 ppm	N/A
Plunge Pools and Wave Pools		
Plunge and Wave Pool	2.0 ppm	5.0ppm
Plunge and Wave Pool With Stabilizer	3.0 ppm	N/A
Interactive Play Attractions		
Interactive Play Attraction	2.0 ppm	5.0 ppm
Interactive Play Attraction With Stabilizer	3.0 ppm	7.0 ppm
Waterslides and Pool Slides		
Waterslides and Pool Slides	2.0 ppm	5.0 ppm
Waterslides With Stabilizer	3.0 ppm	N/A

* When a waterslide plunge pool or a wave pool is equipped with approved and properly functioning electronic monitoring devices to control the chlorine residual and pH level, the free available chlorine residual may be a minimum of 1.0 ppm.

172.14: Water Chemistry Standards

- pH range of 7.2 – 7.8
- Cyanuric Acid (stabilizer) maximum of 30 ppm.
- Total alkalinity range of 60 – 180 ppm as calcium carbonate.
- Combined Cl₂ maxima: 0.5 ppm in Outdoor Pools & 0.8 ppm in Indoor Pools.
- Cl₂ residual maximum of 10 ppm.
- Br₂ total maximum of 20 ppm.

172.19: Water Temperature Standards

- Indoor Pools: 72° F to 95°F
- Outdoor Pools: >65°F
- Whirlpools: ≤104°F
- Cold Soak Pools: May be <65°F when water temperature (°F) is posted in 4" letters.

172.18(1): Water Testing Frequency – Pools and Water Attractions

- pH & Disinfectant Residual twice/day:
 - once daily before the pool is opened or in use,
 - once during the day's peak patron load,
- Combined Cl₂ twice/week,
- Total Alkalinity once/week,
- Cyanuric Acid once/week.

172(3): Water Testing Frequency – Pools and Water Attractions w/ ORP

- pH & Disinfectant Residual once/day,
- Continually monitor the ORP device (650 – 850 mV)
- Combined Cl₂ twice/week,
- Total Alkalinity once/week,
- Cyanuric Acid once/week.

172.18(2): Water Testing Frequency – Whirlpools, Therapy & Exercise Pools.

- pH & Disinfectant Residual four times/day:
 - once daily before the pool is opened or in use,
 - two or more times when in use,
- Combined Cl₂ once/day,
- Total Alkalinity once/week.

172.17(1),(2) & (3) per 172.14(4): Water Test Kits

Kits must measure for:

- pH, (7.2 to 7.8),
- Free Chlorine: 0 to 10 ppm Cl₂ in increments of 0.2 ppm,
- Total Bromine: 0 ppm – 20 ppm Br₂ in increments of 0.2 ppm
- Combined Cl₂, when Cl₂ is used (0 - 10 ppm in increments of 0.2),
- Total Alkalinity (60 -180 ppm as calcium carbonate),
- Cyanuric Acid (≤30 ppm), when used.

172.17(1) & (2): Water Test Kit Reagents

Reagents shall be stored in the original labeled contained and shall be replaced as recommended by the manufacturer, Disinfectant testing reagent shall be DPD in powder (including tablets) or liquid form.