

Loudoun County Health Department

1 Harrison Street, S.E., Leesburg, VA 20177

mailing address: P.O. Box 7000, Leesburg, VA 20177

Phone: (703) 777 – 0234

Water Recreation Facility Operating Guidelines

Owners and Pool Management Company are responsible for operating, maintaining and managing in accordance with the requirements of the Loudoun County Pool Ordinance.

www.loudoun.gov/pools

1. Personnel

Certified Pool Operator:

- Required on site any time pool is open to the public
- CPO certificate and photo I.D. must be on-site with personnel
- CPO training course has been approved by the Health Dept and listed on "Approved CPO Courses"
- CPO must ensure proper water quality and pool recirculation system

Lifeguard:

- At least one lifeguard at all pools with capacity of 40 or more people at any one time
- One Lifeguard minimum for every 50 patrons in pool area
- Lifeguard must be guarding pool and have no other duties
- Lifeguard certification, photo I.D. and CPR/1st Aid certifications must be on-site with personnel
- Lifeguard must be in clothing that distinguishes them as a lifeguard
- Lifeguard must have complete visual coverage of pool
- Pools with capacity under 40 persons must designate and have on premise a reliable and competent person as a lifeguard. Certified lifeguard training is not required.

2. Pool Operations

Recirculation System:

- Mechanical disinfection equipment must be operational to maintain water quality standards
- Hand feeding of chemicals is not permitted while pool is open or within 30 minutes prior to opening
- Placard with correct system information must be posted in pump room
- Recirculation system must maintain proper turnover times and flow rates

Swimming Pools = 6 hours

Wading Pools = 2 hours

Spas = 15 minutes

IWF = Varies as approved. See www.loudoun.gov/pools (section 838.107)

Water Contamination:

- Pool must be CLOSED if contaminated by fecal incident
- Pool must be decontaminated following CDC guidelines

Water Quality Standards:

- Pool chemistry to be maintained within standards at all times while open to the public

Swimming Pools

Parameter	Minimum	Ideal	Maximum
Free Chlorine (ppm)	1	1-3	3
Combine Chlorine (ppm)	0	0	0.2
Bromine (ppm)	2	2-4	4
ORP	650	750-900	N/A
pH	7.2	7.4-7.6	7.8
Total Alkalinity (ppm)	60	80-120	180
Calcium Hardness (ppm)	150	200-400	1000

Spas / Hot Tub

Parameter	Minimum	Ideal	Maximum
Free Chlorine (ppm)	2	3-5	10
Combine Chlorine (ppm)	0	0	0.2
Bromine (ppm)	2	3-5	10
ORP	650	750-900	N/A
pH	7.2	7.4-7.6	7.8
Total Alkalinity (ppm)	60	80-120	180
Calcium Hardness (ppm)	150	200-400	1000

Interactive Water Feature / Fountains / Activity Pool

Parameter	Minimum	Ideal	Maximum
Free Chlorine (ppm)	3	4	9
Combine Chlorine (ppm)	0	0	0.2
Bromine (ppm)	2	4-6	9
pH	7.2	7.4-7.6	7.8
Total Alkalinity (ppm)	80	100	160
Calcium Hardness (ppm)	200	200-400	800

3. Record Keeping

Water Quality Tests:

- Water quality tests must be maintained and posted to public view while pool is open
- Water quality tests will be conducted on the following schedule:
 - Every 2 hours = Free Chlorine, pH, ORP and temperature of Spas
 - Twice a day = Flow rates and influent/effluent pressure readings on each system
 - Once a day = Total chlorine
 - Once a week = Cyanuric acid, Calcium and Alkalinity

- Water Quality Board made of durable, reusable material to be provided in view of the public Display current water chemistry and parameter. Post the following information:

Date

Time

Disinfectant and level -

pH level – 7.2 to 7.8

Temperature of Spas and heated pools (°F) – Maximum 104°F

4. When to notify the Health Department (703) 777 – 0234

- Mechanical disinfection equipment is not working - Pool must close until properly operating
- Immediate notification of emergency/911 calls - For drownings, near drownings or water related illness. Written injury report will be REQUIRED. (section 838.53)
- Water contamination – Pool must close, follow CDC guidelines
[https:// www.cdc.gov/healthywater/swimming/aquatics-professionals/fecalresponse.html](https://www.cdc.gov/healthywater/swimming/aquatics-professionals/fecalresponse.html)

Formed Fecal Incident and Vomit

*Pool must close. Follow CDC guidelines.

1 ppm Free Chlorine for 45 minutes

2 ppm Free Chlorine for 25-30 minutes

3 ppm Free Chlorine for 19 minutes

Diarrheal Incident

*Pool must close. Follow CDC guidelines.

10 ppm Free Chlorine for 25.5 hours

20 ppm Free Chlorine for 12.75 hours

As per CDC: There is no public health reason to recommend closing a properly chlorinated pool after a blood spill. However, some pool staff choose to do so temporarily to satisfy patrons.