

## Chemical Standards for Swimming Pools

(Based on NSPI values & the Florida Administrative Code)

	Maximum & Minimum Range	Recommended Range	Notes
<b>Chlorine</b>	<b>1-10 ppm Pools *</b> <b>2-10 ppm Spas</b>	2-3 ppm Pools 3-5 ppm Spas	<u>Must be recorded in maintenance log daily.</u> *Indoor pools cannot exceed 5 ppm chlorine
<b>Bromine</b>	<b>1.5 -10 ppm Pools*</b> <b>3-10 ppm Spas</b>	2-3 ppm Pools 3-5 ppm Spas	<u>Must be recorded in maintenance log daily.</u> *Indoor pools cannot exceed 6 ppm bromine
<b>pH</b>	<b>7.2 – 7.8</b>	7.4 – 7.6	Must be recorded in maintenance log daily. Raise pH with soda ash or sodium bi-carb. Lower pH with muriatic acid or dry acid (sodium bi-sulfate)
<b>Cyanuric Acid</b> (also called stabilizer or conditioner)	<b>0-100 ppm Pools</b> <b>0-40 ppm Spas</b>	30-40 ppm in Pools 0-20 in Spas	Check 1-2 times a week. Drain, scrub & refill pool/spa if stabilizer exceeds limits.
<b>Alkalinity</b>	60-180 ppm	80-120 ppm	Check weekly. Raise alkalinity with sodium bi-carb.
<b>Calcium Hardness</b>	150-1000 ppm	200-400 ppm	Check weekly. Raise hardness with calcium chloride dehydrate.
<b>Total Dissolved Solids (TDS)</b>	300-3000 ppm	1000-2000 ppm	Check monthly. High TDS makes water tastes salty. Dilute high TDS.

Keep in mind when dumping from your yellow jug into a pool or spa:

**ONE GALLON OF CHLORINE RAISES A 100,000 GALLON POOL ONE (1) PPM**

(a yellow jug holds 2.5 gallons)

**A low pH (less than 7.2) is ACIDIC pool water** = too much acid present, add sodium bicarbonate or soda ash (sodium carbonate) to increase the pH of acidic water.

**A high pH (greater than 7.8) is NOT ENOUGH** acid in the water (the water is 'basic' or too alkaline), therefore, you must add muriatic acid, or dry acid, to **lower the pH**.

**Pre-coating DE elements:** Use 1/5 lbs of DE per 10 ft<sup>2</sup> of filter surface area. A one pound coffee can holds approximately 8 oz. (1/2 lb) of DE.

**Flow rate** = 5 times the bathing load (BL); example BL of 20 requires a flow rate of 100 gpm)



If you have questions about a pool, contact the Health Department at **861-6675**