



Pure Water Sciences, LLC

8/1/11

HIGHLAND PARK POOL SUCCESS STORY

Pure Water Sciences, LLC has installed an ECOsmarte Planet friendly pool filtration system in the Town of Union Highland Park public pool in Endwell New York. The system comprises a series of 2" chambers with copper and titanium plates/bars. The water is fed through these chambers and filtered through recycled glass media in lieu of sand. The copper and titanium produce natural oxygen and ionic copper which is deadly to single cell organisms but healthy for humans and the Glass Pak media accomplished 5 micron filtration eliminating all or most of the potential need to shock the pool. The total cost was \$35,000.

- Main pool 310,000 gallons
- Attached kids pool 9,325 gallons
- The owner previously used non stabilized scale inhibiting chlorine tabs that were dissolved into liquid and fed through a chlorinator along with CO2 to control the Ph levels. Our system recommended use is comprised of **liquid chlorine** fed and monitored through a Krueger & Eckyls chlorine dispenser.
- We installed (8) ECOsmarte chambers each of which has (2) copper plates and (2) titanium plates hooked to (4) programmable control boxes powered by 110 volt electricity that produces an electrical charge to the plates in an engineered programmed delivery system calculated to produce copper and oxygen and introduce it to the water as it passes through the chambers.
- ECOsmarte engineering calculated the cost of liquid chlorine for the season to be 1000 gallons at \$2 = \$2000 and replacement copper plates once per year at \$1300. This totals \$3300 versus the \$13,300 presently being spent on chlorine. An estimated savings of \$10,000 annually. The owner has elected to produce their own liquid chlorine by dissolving non-stabilized non-scale retardant chlorine tabs and is presently saving \$60/day on chemicals
- Not counted in the cost savings is the reduced amount of backwash as a result of the glass media. The glass media has shown that backwashing has been reduced from 3 to 5 times a week to 5 times in 4 weeks. This is a savings of 3000 gallons each time. So at worst case they are saving 6000 gallons/week and best case 12,000 gallons/week.
- The water is crystal clear, the users are extremely pleased with the "soft" feel and reduced chemical reaction and we have received many unsolicited positive comments.

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