

RAPID WATER TECHNOLOGIES™

CASE STUDY: Nanobubbles Create “Sparkling-Clear” Pool and Spa Water

It's an all-too-common and unwelcome sight for many pool and spa owners: green and murky water has overtaken your backyard paradise. This transformation can happen surprisingly quickly -- even overnight -- wherever algae begins to grow. Typical treatment methods to restore clear blue waters include **a heavy dose of chemicals, such as chlorine or algaecide, plus a waiting period of days to weeks while the chemicals break down the algae.**

Nanobubbles also have the capacity to mitigate algae growth and, as one Michigan-based pool owner learned, can be combined with traditional pool maintenance techniques for **faster cleaning, easier maintenance and reduced chemical use.**

The owner of the pool pictured here added a Rapid Water Technologies' H2OIX1 Nanobubble Generator to his pump just prior to opening it for the season. It had been drained for cleaning and repairs, and the well water used to fill it contained large quantities of iron and tannins. This, combined with algae-growth, gave the pool a green, swamp-like appearance (top photo).

In a typical year, after “shocking” the pool with chemicals, he would expect the water to take approximately two weeks to turn a clear blue. **But with the generator pumping millions of algae-oxidizing nanobubbles into the water, the spa cleared within hours and the pool by the very next day** (bottom photo).

Impact of Nanobubbles on Pools

- + 25-50% Reduction in Chlorine and Algaecide Use
- + Less Frequent Cleaning of Waterline
- + Improved Consistency in Pool Water Chemistry
- + More Efficient Use of Chemicals
- + Visibly Clearer, Cleaner Water

“Not only did the water clear significantly faster than usual, **we've used far less chemicals** to maintain our pool this season when compared to previous years. **There's even more of a sparkle to the water** -- a crystal clear quality that's difficult to quantify but definitely noticeable.



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