



Aquamosis Launches Comprehensive Guide to Help Pool Owners Lower Total Dissolved Solids (TDS) Effectively

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Aquamosis, an Arizona-based mobile pool water purification service, has published an educational guide outlining methods for managing elevated Total Dissolved Solids (TDS) levels in residential swimming pools across the Greater Phoenix metropolitan area. The guide details chemical mechanics, local environmental factors, and filtration techniques designed to help pool owners maintain water chemistry while addressing regional hard water conditions.

High ambient temperatures and rapid evaporation rates in the Sonoran Desert contribute to TDS accumulation in residential pools. As tap water continuously tops off pools to offset evaporation, dissolved minerals such as calcium, magnesium, and sodium remain in the pool. Over time, high concentrations of total dissolved solids and elevated calcium hardness can lead to scale formation on plaster surfaces and persistent water cloudiness.

The newly published resource outlines operational indicators of high mineral content, including white calcium deposits along tile lines and water clarity challenges. Standard industry guidelines recommend monitoring

TDS and maintaining balanced water parameters to help preserve clarity and protect interior pool finishes and equipment.

The guide evaluates traditional drain-and-refill procedures alongside filtration alternatives. While draining a pool is a common method for lowering dissolved solid concentrations, the publication notes municipal water conservation goals and the structural risks associated with completely emptying pool shells during high-heat months, such as plaster cracking or hydrostatic ground lifting.

Additionally, the resource notes that mineral scaling on heater exchangers, salt chlorine generator cells, and plumbing lines can impair equipment performance over time. Addressing mineral accumulation helps maintain standard operating conditions for pool equipment.

As an alternative to full drain procedures, the publication examines mobile reverse osmosis filtration systems. Through mobile swimming pool water recycling, high-pressure reverse osmosis trailers process pool water on-site through semi-permeable membranes.

The guide notes that mobile swimming pool water recycling filters existing pool water during processing, allowing pool owners to lower TDS levels without completely emptying the pool or exposing plaster surfaces to extreme ambient heat. By keeping the pool filled throughout the purification process, property owners may prevent the severe structural hazards associated with dry pool shells in hot climates, such as plaster popping, cracking, and hydrostatic shell lifting caused by surrounding soil pressure. Furthermore, this continuous loop filtration method can get rid of heavy metals, excess cyanuric acid, and accumulated salts directly at the site, delivering clean water back into the swimming pool while minimizing municipal water waste.

The educational resource includes testing guidelines, water balancing charts, and an overview comparing traditional drain-and-refill routines with mobile filtration services. Designed as a practical reference for ongoing pool management, the guide breaks down chemical parameter targets and provides step-by-step diagnostic workflows for identifying mineral oversaturation. It also details seasonal maintenance schedules tailored specifically to the extreme summer evaporation rates and water conditions of the desert Southwest. Property owners, home service professionals, and pool maintenance technicians can access the full publication, view detailed system specifications, or schedule an on-site water analysis directly on the company's official website at aquamosisaz.com.

Aquamosis provides mobile pool water purification services to residential and commercial property owners throughout Phoenix, Scottsdale, Paradise Valley, and surrounding Maricopa County communities. Utilizing mobile reverse osmosis filtration units, the company treats hard water, high cyanuric acid, calcium buildup,

and elevated TDS levels directly on-site. The specialized mobile trailer units process thousands of gallons of pool water per day, removing dissolved solids and contaminants without requiring a complete drain. This continuous purification process helps maintain optimal water balance and conserves municipal water resources across the Greater Phoenix region.

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