

# PRESS RELEASE

## Aqua Metrology Systems Harnesses the Power of Tin to Address a Broad Range of Waterborne and Airborne Contaminants

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[Aqua Metrology Systems](#) (AMS), the pioneer of the in-situ stannous generation system, has significantly widened the application of this highly effective non-toxic metal to address a broad range of waterborne and airborne contaminants that threaten the health of people and their environment. These technological advancements will enable the cost-effective treatment of drinking and industrial effluent that is contaminated with trace metals and capture airborne contaminants such as nitrogen oxides, hydrogen sulfide and sulfur dioxide.

SafeGuard™ H2O generates in-situ and on demand a stannous and tin dioxide reagent by electrolysis and is a far more cost-effective water treatment solution compared to traditional alternatives because tin and electricity are the only consumables. Prior to AMS's innovative approach, there was no method for delivering a controlled dose of these powerful reagents. SafeGuard H2O can be applied for the remediation of arsenic, hexavalent chromium in groundwater water at the well or in the home; remove lead/copper in drinking water in schools and homes; prevent iron corrosion in cooling systems; treat arsenic or hexavalent chromium in industrial effluent; treat and recover sulfur, selenium, and mercury from industrial wastewater and flue gases; and remove and inhibit biofilm growth in cooling systems to reduce corrosion and risk of Legionella outbreaks.

SafeGuard H2O incorporates proprietary continuous, real-time monitoring of contaminant levels to ensure optimal treatment and compliance with regulatory and operational targets 24/7/365, making this a truly intelligent remediation system. There are presently no similar applications that integrate a low life-time cost contaminant treatment system with real-time performance controls. This makes the system particularly suitable for remote, unattended locations.

Initial SafeGuard H2O pilots in the USA have demonstrated how this innovation can reduce significantly the costs of drinking and wastewater treatment while widening access to safe drinking water and supporting tighter regulatory standards for these contaminants of concern.

"Each of these applications is global in scale, and as a consequence, AMS is now seeking investors and partners to bring these innovations to market — whether it is the low-cost removal of arsenic from drinking water in remote low-income communities in California, removing lead from water supplies in Ontario, recovering sulfur from flue gases in China or selenium from coal-ash ponds in the USA, removing chromium from tannery effluent in Thailand, preventing NOX or CO emissions from power stations in India and inhibiting corrosion in the cooling systems of data centers in France," said Rick Bacon, CEO of AMS. "Our commitment to transforming the way we see water is built upon 10 years of intensive product development, technology innovations, and forward-thinking solutions to advance the access of both large and small communities to clean and safe drinking water."

Safe drinking water and wastewater services are vital to public health; however, as the pace of investment in water systems continues to fall behind the need, many water treatment systems struggle to consistently deliver reliable, high-quality water that meets regulatory requirements. With SafeGuard H2O, AMS has harnessed the power of tin to deliver municipal water systems and industrial facilities a highly efficient and competitive technology that offers significant advantages in terms of lifetime costs, footprint, and ease of deployment compared with traditional treatment systems

		Industrial & Commercial Cooling Systems	Municipal/ Residential	Small Private Wells	Heavy Industry and Energy	Mineral Mining	Semi Conductor	
Waterborne Contaminants	As		Groundwater		Process Effluent	Leaching & Byproducts	Process Effluent	
	Cr(VI)							
	Pb/Cu		Anti Corrosion					
	Hg				Process Effluent			
	Se							
	Fe/Cu	Anti Corrosion						
Airborne Contaminants	H <sub>2</sub> S/SO <sub>2</sub> /NOX/CO				Flue & Process Gases			

**SafeGuard™ H2O intelligent water treatment system harnesses the power of tin to deliver innovative solutions for removing waterborne and airborne contaminants from a wide range of municipal and industrial water and wastewater treatment applications.**

## About AMS

[Aqua Metrology Systems Ltd.](#) (AMS) believes real-time water quality analysis and remediation are essential to environmental protection. AMS is a leader in the control of water treatment systems across municipal and industrial sectors in which disinfection byproducts (i.e., THMs) and trace metals are contaminants of concern. AMS' online analytical instrumentation provides the high-frequency, predictive, accurate and reliable water quality data that are essential to ensuring treatment systems operate efficiently while meeting regulatory and performance standards. AMS is the pioneer of the intelligent water treatment system with its SafeGuard™ H2O, an innovative solution for remediating waterborne and airborne contaminants and resource recovery.

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