



SafeGuard™ H2O Hexavalent Chromium (Cr6) Demonstration at City of Banning

[Aqua Metrology Systems](#) (AMS) and [NCS Engineers](#) have teamed up to bring a live technology demonstration of the innovative SafeGuard™ H2O in-situ reagent generation system for the removal of hexavalent chromium (Cr6) to the City of Banning.

The 3-gpm technology demonstration reveals how the fully automated SafeGuard™ H2O system addresses the needs of small, underserved communities impacted by Cr6 contamination by providing an affordable, non-hazardous and environmentally sustainable remediation solution.

The fully automated SafeGuard™ H2O technology uses a certified precursor and an in-situ electrolytic generator to create a non-toxic stannous reagent onsite and on demand. The process is simple, effective and carbon neutral.

SafeGuard™ H2O features automatic dosing and incorporates proprietary continuous, real-time monitoring of Cr6 levels at the influent and effluent to ensure optimal treatment and compliance with regulatory and operational targets 24/7/365. Because the system can be fully controlled, monitored and optimized remotely, the presence of personnel on site for supervision is minimized, further reducing operating costs compared with strong based anion exchange (SBA) treatment systems.

SafeGuard™ H2O Features Compared to SBA Treatment

- Fully automated in-situ reagent generation system that includes real-time online Cr6 monitoring
- Certified precursor ensures the quality of the reagent
- Compact modular design easily integrates into existing infrastructure
- Low power consumption, supports carbon reduction goals
- Requires low amounts of consumables to reliably remove Cr6 to < 1 ppb
- Generates low amounts of non-toxic dewatered waste which can be potentially reused
- Highly selective, not impacted by raw water matrix
- Low risk treatment approach with easy to remove non-toxic waste residuals

Learn More

Regulatory environment, treatment options and demonstration goals:

Joon Min, President, NCS Engineers
T: +1 949-400-3458
jmin@ncseng.com

SafeGuard™ H2O technology and in-situ reagent generation for Cr6 removal:

Rick Bacon, CEO, AMS
T: +1 617-543-6522
rbacon@aquametrologysystems.com