

Field & Upstream

Serving treatment plant and systems operators in Hillsborough, Manatee, and Sarasota Counties

From The Director

If you weren't there you missed a great time aboard the Yacht Starship Dinner Cruise in Tampa Bay. Thanks to everyone who attended this event and to all the sponsors for helping to make this event possible.

Thanks to all the returning annual sponsors for 2023: Evoqua, Electro-Mechanical South, Water Quality Services, Trihedral, and the new sponsors Enecon, Cl2 Solutions and USA Bluebook. If you are using any of these sponsors, please remember to thank them for their support of our Region XII. If your company would like to become an annual sponsor or a meeting sponsor, please contact me at 12-director@fwpcoa.org

The 2023 Board Members are as follows: Director: Steve Saffels; Chair: Isaiah Moss; Vice-Chair: Currently vacant, at the February GMM I am asking for a motion to appoint Kevin Doorman to this position; Secretary/Treasurer: Zoé Chaiser; Secretary/Treasurer Elect: Brent Laudicina; TRUSTEES: Web-Master: Mark Harris; Wastewater: Kevin Doorman; Industrial Pretreatment: Joe Squitieri; Reclaimed Water: David Buyens; Training Committee: Patrick Murphy, Steve Saffels, Isaiah Moss

The February 16th meeting will be held at the Plant City WRF, 1500 W. Victoria St., Plant City.

Region XII will be sponsoring the meeting. The Zoom link for the meeting is:

Join Zoom Meeting

<https://us02web.zoom.us/j/82140523791?pwd=WDNlQ3JxNWJOOE4weTRLTGt5N1M0Zz09>

Meeting ID: 821 4052 3791

Passcode: 281049

Did you know the FWPCOA has around 5200 members state-wide, Region XII has 478 members? We typically see around 10 members at each of our meetings. Come on out to a meeting and see what we are about, you may want to get involved. This is your organization.

The FWPCOA is looking for instructors, proctors and sponsors on the state and region levels. If you are interested in getting involved, please contact one of our board members.

Everyone stay safe out there.

Steve Saffels

FWPCOA Region XII, Director

Your Officers for 2023

DIRECTOR

Steve Saffels

12-director@fwpcoa.org

CHAIRMAN

Isaiah Moss

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VICE-CHAIRMAN

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ALKAGEN® AQ SOLUTION PROVIDES POINT SOURCE ODOR AND CORROSION CONTROL IN FLORIDA

Experiencing severe wet-well corrosion and odor complaints at a prominent lift station, a municipality in South Florida turned to Evoqua to provide an effective solution.

Evoqua Water Technologies LLC was contacted by a South Florida Municipality to provide an odor control solution for a lift station within their collection system. In the past, the municipality had implemented biofiltration for control of atmospheric hydrogen sulfide. However, in recent years the biofilter was removed, leaving the lift station untreated and exposed to high sulfide concentrations. As a result, the lift station was subjected to a substantial degree of corrosion as well as odor complaints from the surrounding neighborhood.

The lift station handled an average daily wastewater flow of 0.5 MGD. Liquid sampling at the site showed an average hydrogen sulfide concentration of 6 mg/L. Atmospheric hydrogen sulfide data revealed that the lift station was experiencing an average sulfide concentration of 187 ppm, with peaks up to 324 ppm.

ALKAGEN® AQ SOLUTION - PH SHIFT TECHNOLOGY

Due to the high sulfide concentrations and resulting corrosion issues, Evoqua determined a liquid phase technology was necessary to effectively reduce hydrogen sulfide concentrations. Point source application was also an important factor in selecting the right technology for a fast-acting solution.

Alkagen® AQ Solution, which uses a pH shift technology, was recommended as the optimal solution for providing point source sulfide reduction within the lift station. As pH increases, hydrogen sulfide will shift into a non-volatile form that is unable to escape into the vapor phase. For typical wastewater (pH ~7.0), nearly 50% of hydrogen sulfide exists in this non-volatile form. However, at a pH of 8.5, more than 97% of the sulfide will be trapped in solution. Alkagen AQ Solution increases wastewater pH as needed to effectively trap hydrogen sulfide in solution and prevent escape into the vapor phase.

Alkagen AQ Solution is fast-acting and rapidly dissolves in wastewater, providing an almost instantaneous effect at the application point. This contrasts to magnesium hydroxide, which has to be added upstream to allow time for dissolution, sometimes requiring multiple feed sites.



Alkagen AQ Solution provides fast-acting sulfide control

ADVANCED DOSING AND REMOTE MONITORING - VERSADOSE® CONTROLLER AND VAPORLINK® MONITOR

With the Alkagen AQ system, a VersaDose® Dose-to-Demand advanced controller was used to carefully regulate the metering of chemicals by programming daily dose curves to match sewage flow rates within the system. By using the VersaDose Controller, Evoqua was able to maintain the desired pH set by the treatment objectives and prevent over-feeding and wasteful spending by the municipality.

Additionally, Evoqua deployed a VaporLink® remote monitoring device to continuously monitor sulfide concentrations within the wet-well. This capability allowed remote access to site specific data from any location with an internet connection. The VaporLink monitor and VersaDose controller were made accessible through Link2Site® Web Monitoring and Control system for real-time visibility and control. These technologies allowed for quick and efficient remote optimization of dosing to effectively reduce hydrogen sulfide.

RAPID AND EFFECTIVE SULFIDE CONTROL

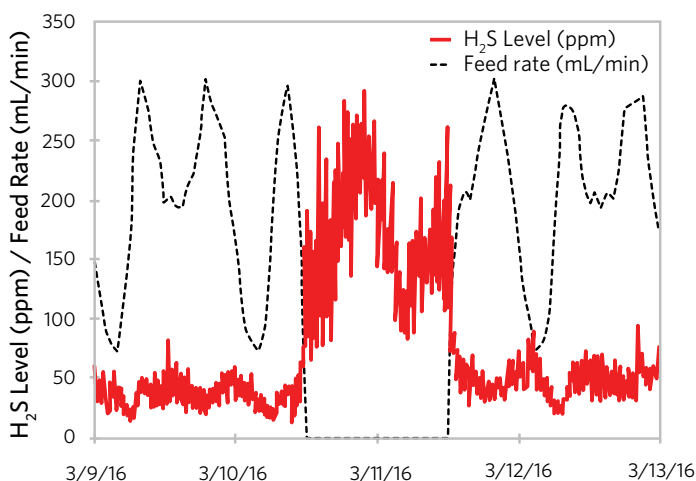
Evoqua fed Alkagen® AQ Solution directly into the influent manhole to provide instantaneous odor control within the wet-well. The municipality established treatment objectives of ≤ 50.0 ppm atmospheric sulfide and 8.5 wastewater pH.

Following installation and start-up, Evoqua optimized the Alkagen AQ feed system to meet the treatment objectives. The final adjusted feed rate was approximately 77 GPD. At this feed rate, hydrogen sulfide levels within the wet-well averaged 48.9 ppm while wastewater pH was maintained to an average of 8.45.

In order to demonstrate the effectiveness and rapid response of Alkagen AQ Solution, the feed system was temporarily shut off for 24 hours as seen in the chart below. Upon shutting off the system, hydrogen sulfide almost immediately returned to the untreated levels previously measured. Once the system was restarted, hydrogen sulfide concentrations promptly returned to the desired treatment levels.

With the treatment objectives being met, and the provided technology thoroughly proven, the municipality was confident in their decision to use Alkagen AQ Solution for odor and corrosion control at the lift station.

ATMOSPHERIC HYDROGEN SULFIDE LEVELS WITH FEED RATE



When the Alkagen AQ feed system was temporarily shut off, hydrogen sulfide levels spiked, demonstrating the effectiveness of the solution.

INDUSTRY:

Municipal Wastewater

BUSINESS CHALLENGE:

Effectively control hydrogen sulfide to eliminate odor complaints and reduce corrosion

SOLUTIONS/SERVICES:

- Alkagen AQ Solution
- VersaDose Dosing Controller
- VaporLink Hydrogen Sulfide Monitor
- Link2Site Web Monitoring and Control

ALKAGEN® SOLUTION ADVANTAGES:

- Fast-acting sulfide control
- Achieves pH of 9+
- Treats odor and corrosion at the source

FOR MORE INFORMATION

www.evoqua.com/alkagen

Contact:

Charles Maltby

Technical Sales Representative

Video Links

Odor and Corrosion Control in Sarasota County

Evoqua video - Making Water Safer

Evoqua Water Technologies LLC

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Main Office: (800) 345-3982 (I do not have an office or telephone extension at this number)

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Region XII

Next Meeting

ACTUAL/VIRTUAL

DATE : FEBRUARY 16, 2023
6:00 PM - 8:00 PM

The February 16th meeting Host is the **Plant City WRF** 1500 Victoria St, Plant City, FL 33563 and is Sponsored by Region XII. The topic will be City of Plant City's Indirect Potable Reclaimed Water Pilot Project including planning, staging and equipment including Ultra-filtration, Reverse Osmosis, and Ultra-violet disinfection.
a LIVE General Membership Meeting w/ a Zoom at the following link:

Join Zoom Meeting

[https://us02web.zoom.us/j/82140523791?](https://us02web.zoom.us/j/82140523791?pwd=WDNlQ3JxNWJJOOE4weTRLTG15N1M0Zz09)
[pwd=WDNlQ3JxNWJJOOE4weTRLTG15N1M0Zz09](https://us02web.zoom.us/j/82140523791?pwd=WDNlQ3JxNWJJOOE4weTRLTG15N1M0Zz09)

Meeting ID: 821 4052 3791

Passcode: 281049

Dinner and drink provided by Region XII



What The Heck is That?????

Take a look at this picture. Have you ever seen one of these? Do you have a guess? Bring your answer to the NEXT MEETING and you could win **BAM!** That's **Bumming Around Money!** All correct guesses are put in a hat, and the winner drawn at random will win

\$25 U.S.