

REGION XII'S

Next Meeting

DATE : AUGUST 15, 2019 6:00 PM - 8:00 PM

[On-Line Registration](#)

[Register by 8/12/2019](#)

HOST: Hillsborough County Brandon Support Operations Complex
332 N Falkenburg Rd
TAMPA, FL 33619

Falkenburg AWWTF

12 MGD advanced treatment plant with UV disinfection
Meet at 5pm in front of the Complex for escort to plant

**OPTIONAL
PLANT TOUR**

SPONSOR: Volition Controls & YSI

The exclusive representative for the YSI IQ SensorNet continuous monitoring system, in the state of Florida. Come learn about the latest technology available for your wastewater treatment process. Volition Controls will provide food from Tijuana Flats, with Tea & Lemonade, Hats, Shirts, and other giveaways!

Volition Controls

333 N Falkenburg Rd #113

Tampa, FL 33619

Cell: 813-459-0364

Office: 813-714-7006

www.VolitionCC.com



PLEASE REGISTER for this meeting, as it helps Sponsors plan for door prizes, food and drinks and Plant Tours!



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.**

ALIN**KOBOLD****APG****Max-Air**
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Volition Controls Corp. is a manufacturer's representative & stocking distribution sales company headquartered in Tampa, Florida USA.

We provide process controls, instrumentation and valves for almost all process industries. We offer on-site start-up and commissioning, flowmeter verification, and valve automation services. We service & support what we sell.

Volition Controls Corp. takes care of our customers. Our employees and service set us - apart. 24/7 dependability & cost saving solutions to keep your systems running.

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Our customers always come first and are always right as long as our integrity remains intact.

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- Push-Fit Fittings
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- Face Seal

TESTING | CALIBRATION

- Flow Meter Accuracy Testing for Florida Water Management Districts
- Pressure Calibration
- Temperature Calibration

PRESSURE

We provide all types of pressure related instruments & service.
Mounting of gauges & transmitters on diaphragm seals.
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- Gauges
- Diaphragm Seals
- Transmitters
- Regulators
- Seal Repairs
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- Brix (Sugar)
- % Concentration

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We provide complete pneumatic & electric valve actuation packages.
If you know exactly what you need, or if you would like a recommendation for your application, we will provide the best valve available.

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- Knife Gate Valves
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STEAM

We provide products wherever steam is generated, distributed, or used.

- Complete systems for fluid control
- Valves, Steam Traps & Strainers
- Condensate Monitors, Sensors & Controllers

ANALYTICAL | CHEMICAL

On-Line & Portable continuous monitoring systems for Potable Water, Waste Water, Chemical & Food & Beverage production.

- Chlorine
- Chloride
- Chlorine Dioxide
- Dissolved Oxygen
- Permanganate
- Nitrate & Nitrite
- Sulfide
- Sulfite
- Peracetic Acid
- Hydrogen Peroxide
- Ozone
- Ammonia
- pH / ORP
- Fluoride
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- BOD
- TOC
- UV Transmittance
- ...And More!

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- Transmitters
- I.S. Interfaces
- Multifunctional
- Dual Input Temperature
- Isolation
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- Amplifiers
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- Bi-metal Thermometers
- Digital Thermometers
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- Thermowells

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- Magnetic Flow Meters
- Thermal Dispersion
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- Turbine
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- Positive Displacement

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Evoqua Water Technologies

Evoqua Water Technologies is the global leader in helping municipalities and industrial customers protect and improve the world's most fundamental natural resource: water.

We have a more than 100-year heritage of innovation and industry firsts, market-leading expertise, and unmatched customer service

Contact: Charles Maltby

**Technical Sales Representative
Evoqua Water Technologies LLC
2650 Tallevast Rd.**

**Sarasota, Florida, 34243; USA
Telephone/Mobile: (941) 586-8813**

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Making Sense of Investing

As an Edward Jones financial advisor, I believe it's important to invest my time to understand what you're working toward before you invest your money. It's also important to understand the level of risk you're comfortable accepting when investing so we can balance it with the steps necessary to reach your long-term goals.

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Contact: David Stevens

Owner/Lead Operator

(813) 205-1045

Email: QualityWaterServices1969@gmail.com

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

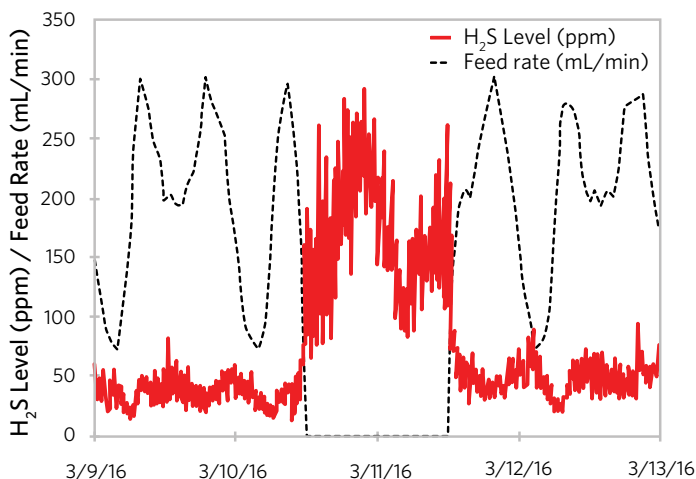
Evoqua fed Alkagen® AQ Solution directly into the influent manhole to provide instantaneous odor control within the wet-well. The municipality established treatment objectives of ≤ 50.0 ppm atmospheric sulfide and 8.5 wastewater pH.

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

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Wol-Coat 310 is a 100% Solids Epoxy chemical resistant liner/coating for the protection of interiors of wastewater treatment plants structures, lift stations, large diameter pipes and manholes. At a mix ratio of 1 to 1 this chemically cured amine epoxy has excellent chemical, corrosion, moisture, and stain and abrasion resistance. Please give us a call if you want an excellent product at a great value for your coating needs.

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Region XII

GENERAL MEMBERSHIP MEETING

DATE : AUGUST 15, 2019 6:00 PM - 8:00 PM

HOST: Hillsborough County Brandon Support Operations Complex
332 N Falkenburg Rd
TAMPA, FL 33619

**TREATMENT PLANT
TOURS @ 5PM-6PM**

Look for the "FW&PCOA REGION XII MEETING INSIDE" SIGN



HINT: It's a mod mod world!

What The Heck Is That?

Type in then print and bring, your answer to
the NEXT MEETING and you could win BAM!
That's Bumming Around Money!

ANSWER: _____

MUST BE PRESENT TO WIN

Email: webmaster.region12@gmail.com for more information

Be sure to "Register" for the
NEXT MEETING and let us know
you're coming!