



# Springing Forward

AULICK CHEMICAL SOLUTIONS, INC.

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## Odor & Corrosion

**O**dor and corrosion control represents one of the most challenging problems facing industry today. Municipalities, as well as industries are becoming more aware of equipment corrosion as well as the health hazards associated with hydrogen sulfide (H<sub>2</sub>S). H<sub>2</sub>S has a pungent odor similar to rotten eggs, but at high concentrations smell can be lost instantly, making H<sub>2</sub>S very dangerous. H<sub>2</sub>S will cause corrosion to plant and collection system equipment, which is costly to repair or replace.

H<sub>2</sub>S is produced when anaerobic bacteria uses sulfates for its food source. Nitra-Nox odor/corrosion control is a 2 step process. First, it will remove existing H<sub>2</sub>S and second, it will prevent the production of hydrogen sulfide by offering an alternative food source for anaerobic bacteria. Nitra-Nox is fed at strategic feeding points within the wastewater system, preventing hydrogen sulfide. Sul-Fight odor and corrosion control was originally developed to remove H<sub>2</sub>S at manholes, lift station, sludge holding tanks, and air scrubbers. After many studies, Aulick Chemical Solutions, Inc. discovered that Sul-Fight eliminates H<sub>2</sub>S from belt filter press sludge on contact. Sul-Fight is used where hydrogen sulfide already exists. There is a reaction that occurs in the wastewater that attaches the Sul-Fight to the sulfur in hydrogen sulfide. The reaction is instantaneous and irreversible. The chemistry of encapsulation & prevention are used to remove hydrogen sulfide.

For more information, please call us at 877.804.2616 or visit us on the web at [www.aulickchemical.com](http://www.aulickchemical.com).

## Chemical Feed Systems

**I**nnovating the best chemistry is very important when it comes to odor & corrosion control, but if you do not have a way to apply the chemistry, it is useless. Aulick Chemical Solutions has developed chemical feed systems that are unlike any on the market today.

The newest system, developed in October 2009, is the B.C. Fogging System. It utilizes the cylindrical shape of a lift



station to produce an underground air scrubber. Conventional air scrubbers are large, noisy, have high electrical consumption, and do not remove the corrosion issue at a lift station. The B.C.

Fogging System is less than 4 feet tall and emits virtually no noise. The chemistry used with the B.C. Fogging System is Sul-Fight. Sul-Fight is a non-hazardous chemical that removes hydrogen sulfide on contact. The B.C. Fogging System fogs Sul-Fight into the lift station, scrubbing the air and removing hydrogen sulfide. This eliminates the odor and corrosion issue in a lift station.

The Stainless Steel Chemical Feed System is a system built to last. It is used where drip feeding is necessary. Conventional equipment simply drips chemical over a 24 hour period. The Stainless Steel Chemical Feed System has dual timers and a 4-20 mA signal for full feed control. Utilizing hydrogen sulfide monitoring equipment, the Stainless Steel Chemical Feed System can optimize your odor/corrosion control issue.



For more information or engineered drawings, please call us at 877.804.2616 or email us at [info@aulickchemical.com](mailto:info@aulickchemical.com).

## Fats, Oils, & Grease

There are many contributing sources of F.O.G. (fats, oils, and grease) in wastewater. Sources are from any place that prepares, processes or manufactures food, such as: restaurants, schools, grocery stores and single family homes. F.O.G. can be either in a liquid or solid form. Because it is less dense than water, F.O.G. floats on the water's surface and can be problematic in a collection system. Cooler temperatures and reduced turbulence allow F.O.G. to resolidify and accumulate on sewer walls and in lift stations and at the plant headworks.

Despite the wide spectrum of places that produce grease, most experience the same problems associated with grease. Some of the many problems include; blocked sewer lines, rancid odors, environmental concerns, potential health hazards, lift station failure, increased B.O.D., increased loading at the wastewater treatment plant and disposal of accumulated grease.



By preventing the build-up of F.O.G., a utility will not only be relieved of this nuisance, but overall it will save a utility increased maintenance and operating costs.

By: Susan Knuckles  
Class II Wastewater Operator/Wastewater Consultant

### Did you know...

- Each of us, every year use approximately 1-100 foot tall Douglas Fir Tree in paper and wood products?
- Once aluminum cans are recycled & melted down, they are made into new cans and back on your grocery store shelves in six weeks?
- Glass never wears out? It Can be recycled Forever.
- There is enough shrink wrap made every year to wrap the state of Texas?
- Using a microwave instead of the stove to defrost a small amount of food uses 50% less energy than a conventional oven?

We want to know:  
What are some ways you recycle?

Write us, call us or email us. We want to hear your ideas!  
They may be published in the next newsletter.

Email: [yourthoughts@aulickchemical.com](mailto:yourthoughts@aulickchemical.com)

## PRODUCT SHOWCASE

### Golden Blend Floating Lift Station Degreaser

Golden Blend is a biodegradable, non-hazardous, citrus degreaser. Golden Blend works to remove grease on contact. Golden Blend is used in several degreasing situations such as those encountered in wastewater treatment.

Aulick Chemical Solutions, developed Golden Blend with two parameters; attack grease where it is located, and use the base chemistry of "Like dissolves Like." Golden Blend is not water soluble and floats on top where the grease gathers in a wastewater lift station. The make-up of Golden Blend utilizes fat bi-products to keep the fats and greases from redepositing further down the wastewater system.

Golden Blend replaces toxic chlorinated solvents and other solvents such as methyl ethyl ketone, xylene, and other petroleum solvents.

When using regularly, Golden Blend prevents grease build-up in lift stations.

For more information about Golden Blend, contact your sales person or call 1.877.804.2616.

