CASE STUDY

Aerisa's Odor Ogor Eradicates Noxious Lift Station Odors in a Georgia Retirement Community

Tucked away in the North Georgia foothills is a retirement community that many have worked a lifetime to join — an idyllic neighborhood residents chose for its beautiful homes, community garden, 3.5-acre fishing lake and state-of-the-art USTA tennis facility. What the residents didn't expect: the rotten-egg stench of hydrogen sulfide (H_2S) escaping from a nearby lift station.

Located just yards from homes and the community tennis courts, the lift station not only emitted a noxious odor but also a grating noise. The carbon filter's fan was so loud that one neighbor complained he couldn't sleep at night. As the odor and noise persisted, residents of the neighborhood alerted City of Canton officials.

The city, which takes quality-of-life complaints seriously, tapped Spencer Carpenter of Utility Partners to tackle the problem. Carpenter, who works closely with city engineers as a project manager, oversees projects related to wastewater collection systems, no small task in a city with close to 8,000 service connections.

It is not uncommon for lift stations to be located near homes or public spaces such as golf courses, recreational facilities, and parks, and the typical solution for H_2S abatement is an activated carbon system. "But in this case, the carbon solution had a marginal effect," says Carpenter, "and the system was frequently turned off because of the noise generated by the fan."

Carpenter was introduced to Aerisa's Odor Ogor ionization system through Aerisa's local representative, The TDH Company. Intrigued, he greenlit a 30-day pilot test at another lift station in Canton. "The results from the pilot test were impressive," says Carpenter. "And the fact that this product did not have a lot of moving parts and is easy to install, operate and maintain made it an attractive solution." The solution was then written into the city's general specifications.

The Odor Ogor is designed to treat the head space in a tank, making it an ideal solution for wet wells, lift stations, wastewater treatment plants, and other applications that are impacted by H_2S and odor problems. This low maintenance, low-cost approach eliminates fugitive odors from a hatch, manhole cover, or vent while protecting equipment in and around the tank from H_2S related corrosion.

"What makes this system unique is it uses positive pressure as opposed to negative pressure, like a plunger in a syringe," says Carpenter. "Ionized air neutralizes the atmosphere in the wet well and clean, odor-free air is discharged to the outside air. There is nothing else out there that can do this at this price point. The Odor Ogor operating costs are extremely low, eliminating the need for carbon or masking agents."

The system is contained in a water-proof, 304 stainless-steel enclosure that can be mounted directly outside the wet well or tank using either a wall mount, unistrut, or legs. A fan draws air through the intake screen, over the ionization unit, and into the wet well via PVC or stainless-steel duct.

ODOR OGOR

Aerisa Odor Ogor Solution:

- Eliminated lift station odors within days
- Decreased H_2S levels to undetectable
- Low maintenance and low-cost
- Protects lift station from H_2S corrosion

"When you pull up to the lift station, you used to smell the H_2S odor immediately, at the gate. Now we can open the hatch and barely smell it. I have another six lift stations that I would highly recommend this solution for."

Spencer Carpenter
City of Canton, Project Manager
Utility Partners

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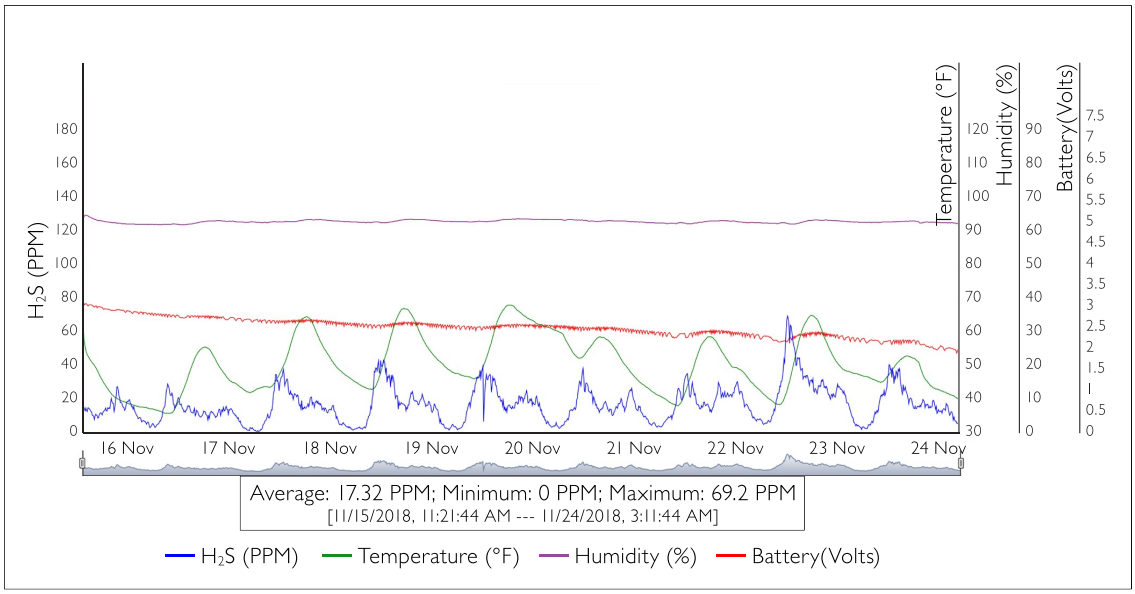
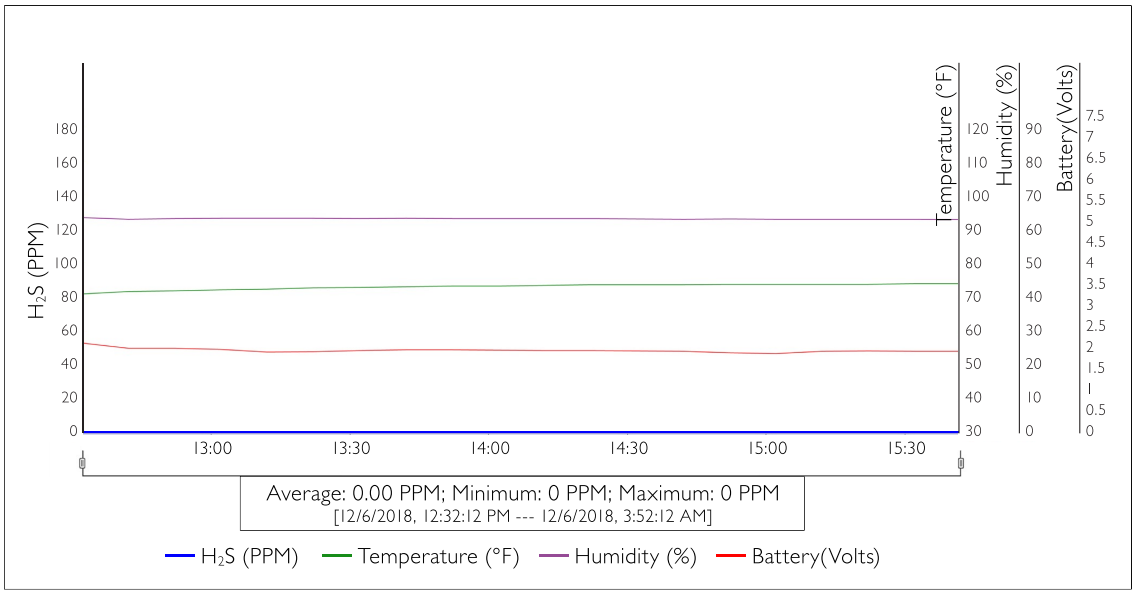
Once the Odor Ogor was installed at the lift station in the retirement community, Carpenter says, the stench vanished. “When you pull up to the lift station, you used to smell the H_2S odor immediately, at the gate. Now we can open the hatch and barely smell it.” Even the resident who logged the most complaints said he does not smell anything and, without the fan noise, has no problem sleeping at night. Says Carpenter: “I have another six lift stations that I would highly recommend this solution for.”

Odor Ogor Results

Odolog data taken over a nine day period at lift station in Canton shows H_2S levels in the wet well before installing the Odor Ogor. There was an average H_2S level of 17.3 ppm and peaks of 69.4 ppm.



Odolog data taken in the same wet well twelve days after installing the Odor Ogor shows no detectable H_2S.



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