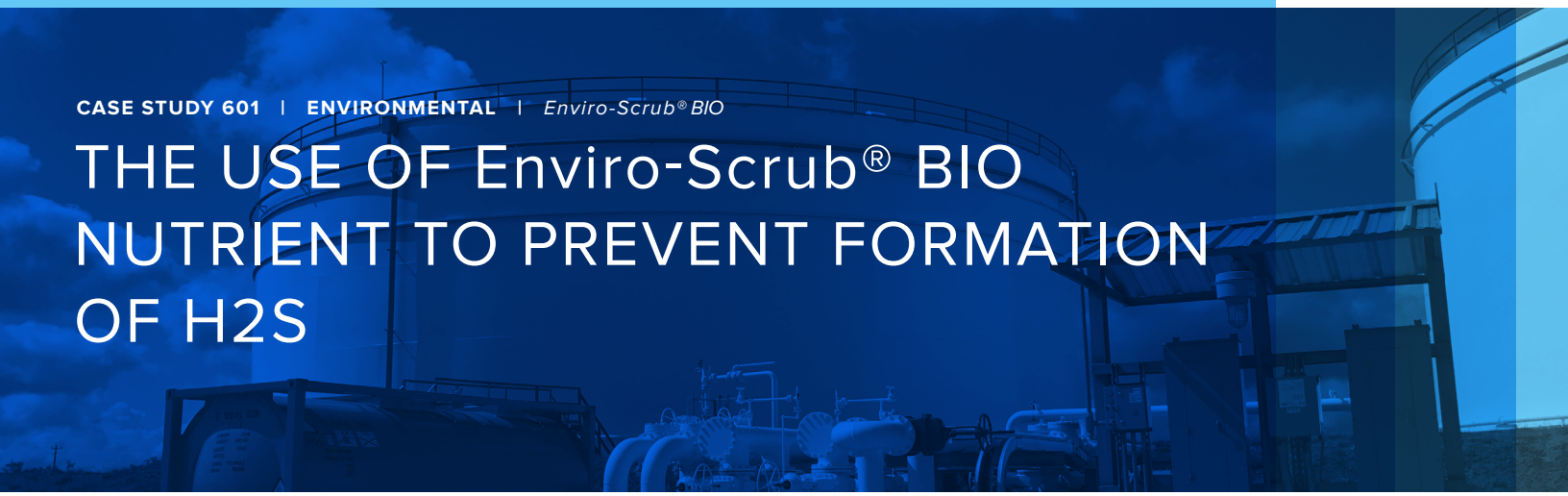
Q2 Technologies
A Chemical Company

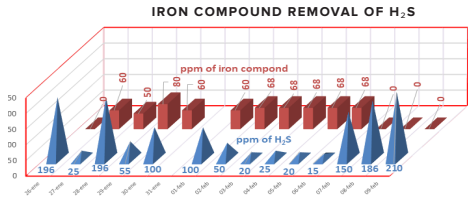


CASE STUDY 601 | ENVIRONMENTAL | *Enviro-Scrub® BIO*

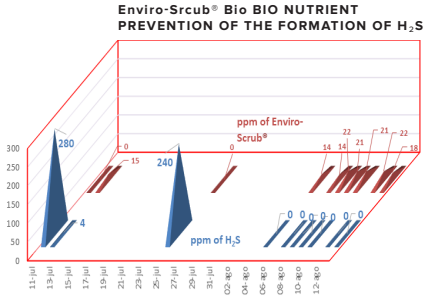
THE USE OF Enviro-Scrub® BIO NUTRIENT TO PREVENT FORMATION OF H2S

A lift station in South Central Texas was using a ferric iron compound to mitigate H2S. The H2S was typically 210 PPM but lower levels were also registered. High levels of H2S present a danger to people – either employees or others exposed to the H2S in air. Graph 1 shows the results obtained utilizing the iron compound.

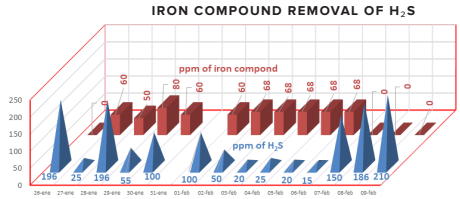
- At a dosage rate of 68 ppm of iron compound, the H2S was reduced to 20 parts per million at best. However, on most days the H2S level was significantly higher than 20 ppm after treating with the iron compound.
- **Q2 Technologies Enviro-Scrub® Bio** nutrient was used instead of the iron compound to eliminate the presence of H2S. Graph 2 shows the results obtained.
- The use of **Enviro-Scrub® Bio** nutrient began when the H2S levels were 280 ppm.
- **Enviro-Scrub® Bio** nutrient immediately reduced the H2S to 4 ppm. **Enviro-Scrub® Bio** nutrient was injected continuously at dosage levels of between 14 to 20 ppm, and the H2S level went down to zero. The same zero H2S result was obtained consistently during the eight days that the trial lasted.
- **Enviro-Scrub® Bio** nutrient does not scavenge the H2S, like the iron compound. **Enviro-Scrub® Bio** nutrient stops the formation of H2S from occurring by changing how bacteria metabolize organic waste. A comparison between the effect of preventing development of H2S with **Enviro-Scrub® Bio** vs. removal of H2S with the iron compound is shown on Graph 2 and Graph 3.



GRAPH 1



GRAPH 2



GRAPH 3

TAKE-AWAYS:

- H2S was completely eliminated.
- H2S spikes were no longer seen.