



Innovative **TURF** **SOLUTIONS** LLC

CASE STUDY

Treatment of Municipal Wastewater Treatment Plant for Hydrogen Sulfide Control with BIOFLOC™ Bacteria Culture



History: This activated sludge waste water treatment plant developed an historical serious problem from hydrogen sulfide, H₂S, and experienced significant odor and corrosion problems. This plant processes 15 million gallons of water per day.

Trial: BIOFLOC™ PART 2, a blend of six patented *Bacillus* strains was used for a period of three months to determine whether or not the H₂S could be reduced or controlled.

Application: BIOFLOC™ culture was added at three pump stations upstream of the plant at the rate of 7.5 parts per million of flow, and the water was analyzed at four sampling points for H₂S concentration. This study was performed from February to May.

Results: BIOFLOC™ treatment resulted in excellent control of H₂S, reducing the concentration from as high as 500 ppm to less than 1 ppm. H₂S levels began to rise by May 19th, two weeks after the final addition of BIOFLOC™.

Although not a focus of this study, historic data also indicate BOD and TSS loads would be reduced with the use of BIOFLOC™ cultures.

Continued treatment with BIOFLOC™ was recommended.