THIOGUARD® – Magnesium Hydroxide provided the best results and was the most cost effective chemical for this system... Magnesium Hydroxide also provided additional alkalinity to the wastewater plant... and significantly reduced odors...

Bioxide® was not effective for this system due to the long retention times.

- THE GEORGIA OPERATOR, SUMMER 2015
An article by Kristen L. Smeby, David S. Einhardt and Brian F. Duane of Hazen and Sawyer, P.C.
In a recent article in *The Georgia Operator* titled, “A Multi-Faceted Approach to Odor Control for a 28.5 Mile Long Force Main,” the authors outlined the solutions to a particularly challenging set of problems faced by the Gwinnett County Department of Water Resources.

Among those solutions was the introduction of THIOGUARD® Technical Grade Magnesium Hydroxide, in place of Bioxide® to address H₂S levels at key areas along the force main. The use of THIOGUARD® also allowed the F. Wayne Hill Water Reclamation Facility to discontinue the addition of lime as an alkaline supplement.

The chart below illustrates the dramatic difference in Hydrogen Sulfide (H₂S) levels before, and after, the addition of THIOGUARD® Technical Grade Magnesium Hydroxide. The addition of THIOGUARD® provided the Gwinnett County Department of Water Resources cost savings of approximately 40%.