

# THIOGUARD® TST

Premier Technical Resources — Magnesia Specialty Chemicals



HILL BROTHERS *Chemical Co.*

Hill Brothers Chemical Company – Western Region Thioguard Supply

## Did you know?

In addition to controlling odors and corrosion, **THIOGUARD®** also helps reduce FOG, improves biological treatment plant performance, and enhances solids dewaterability

**THIOGUARD®** routinely outperforms the competition and in most instances reduces costs as well

No other single collection system odor control product can provide as many additional downstream performance and cost-saving benefits as **THIOGUARD®**



**THIOGUARD® TST** is a non-hazardous application with no required reportable quantities (RQ = None)

Find us online at:  
[www.hillbrothers.com](http://www.hillbrothers.com)  
or  
[www.THIOGUARD.com](http://www.THIOGUARD.com)

## THIOGUARD® vs Nitrate Products

In a recent head-to head trial, **THIOGUARD®** outperformed Nitrate. With Nitrate feeding at 80 gallons per day, **THIOGUARD®** outperformed Nitrate by feeding <40 gallons per day, saving 40% in dollar savings and achieving 97% improvement in reduction of H<sub>2</sub>S gas levels. To find out if **THIOGUARD®** can improve your H<sub>2</sub>S control program and save you money, contact your local Hill Brothers or Premier Representative.

### Concentration Symptoms

#### 0-10 ppm

Irritation of eyes, nose, and throat.

#### 2 ppm

Bronchial constriction in asthmatic individuals, spontaneous abortion

#### 5-9.3 ppm

Increased blood lactate concentration, decreased skeletal muscle citrate synthase activity

#### 10-50 ppm

Headache, dizziness, nausea, vomiting, coughing, difficulty breathing

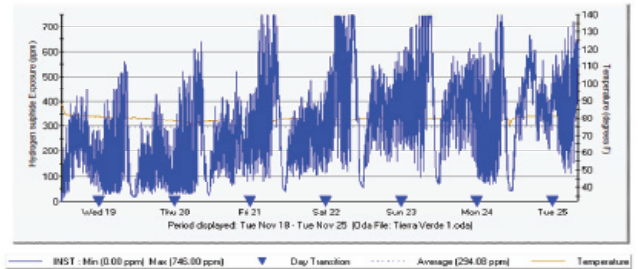
#### 150-250 ppm

Olfactory paralysis

#### 50-200 ppm

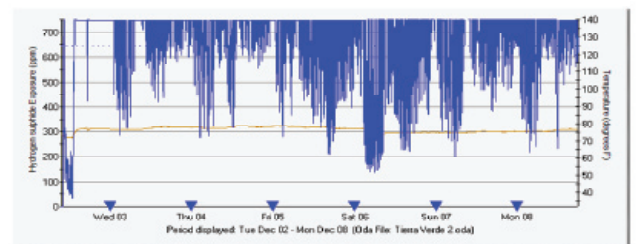
Severe respiratory tract irritation, eye irritation/acute conjunctivitis, shock, convulsions, coma and death in severe cases

Pump station with Nitrate Feed @ 80 GPD



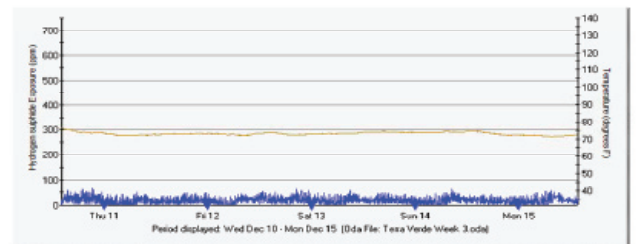
INST: Min (0.00 ppm) Max (746.00 ppm) Day Transition Average (294.05 ppm) Temperature

Baseline with no treatment



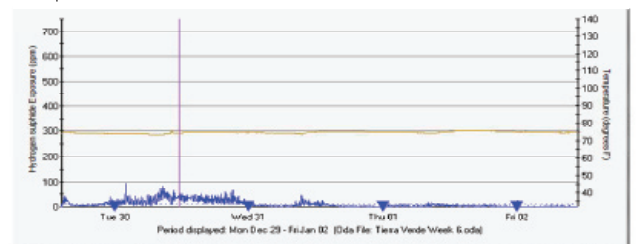
INST: Min (0.00 ppm) Max (755.00 ppm) Day Transition Average (544.05 ppm) Temperature

Pump Station with THIOGUARD® Feed @ ~68 GPD



INST: Min (2.00 ppm) Max (63.00 ppm) Day Transition Average (18.87 ppm) Temperature

Pump Station with THIOGUARD® Feed @ ~32 - 36 GPD



INST: Min (0.00 ppm) Max (53.00 ppm) Day Transition Average (10.37 ppm) Temperature



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