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Subject:
Pig Water

The sample of wastewater from the pig farm contained the following:

Hydrogen Sulfide 2.5 to 5 ppm
Odor attributed to Mercaptans
pH 7.5

Addition of small quantity of 60% Sulfree (two drops in 30 ml)
and mixing reduced the odor content by half.

After mixing with a magnetic stirrer for 5 minutes and re-sampling one hour later, the odor was 80-90% less than the untreated material. The odor smelled of grass, like would be found in a barn, and smelled of Sulfree—no offensive odors.

Hours later, the odor was still missing, and achieved probably a 90% reduction rate. Sampled the next day, and almost no odor except Sulfree.

pH after treatment with Sulfree was 8.0

I am certain that treatment with Sulfree will remove 90% of all odors associated with the Piggy pond.

To relate numbers for addition to shock treat the pond—I am using old pond treatment numbers of 10 gallons of Sulfree 1530 per million gallons and then doubling the numbers. The concentration of Sulfree in the pond after 160 gallons would be 4 ppm. 1.4 ppm was enough to treat 1 million gallons at a winery and kept the odors away for ten days.

We are recommending also a 3-6 ppm solution for treating the water used to spray down pigs for dander, and a 0.3% solution (1/100 dilution of 30%) to treat the air above the pond. Incoming wastewater should probably be treated at a rate of 10-20 gallons per day to keep levels up in the pond. Aeration of the pond would also preserve more chemical and eliminate odors by aerobic digestion of the waste material. The winery mentioned had aerated ponds and the initial shock treatment kept the odors away for ten days without further additions.

I hope this is helpful,
Dave Weller Chemist Guard Products