

ChemTreat OC9104 and OC9106

Reduce Objectionable Odors at Hog Farm

BACKGROUND

In 2004, a 5,500,000-gallon waste lagoon at a 20-year-old southeast Georgia hog farm went septic. There was no perceptible biological activity and critical levels of surface solids buildup. The lagoon also produced offensive hydrogen sulfide odors. At times, the odor was so intense it caused respiratory problems and eye irritation that left plant employees unable to perform their work.

SOLUTION

In 2004, Organic Products Company (OPC) treated the waste lagoon with a single application of Histosol OP-Bio (ChemTreat OC9106) at 45 ppm (250 gallons). The application immediately reduced the amount of odor emanating from the lagoon. Within 14 days, there were signs of increased biological activity and a reduction in surface solids buildup. Biological activity was extremely active after 21 days of treatment. The water had returned to a dull pink color.

OPC also treated the hog farm barns for hydrogen sulfide by adding one quart of Histosol OP-9840 (ChemTreat OC9104) to each of the two 242-gallon rinse tanks located in the barns. Farm employees used the rinse tanks to flush the pit area under the barns twice a day. The application immediately reduced the amount

of hydrogen sulfide, and no offensive odors were detected when the junction box covers were removed.

OC9104 treatment was also applied to the interior of the farrowing barn using a pressure washer chemical input line. The dosage rate was six ounces per gallon. Following treatment, the only apparent odor came from feed stored in the barn. The treatment continued for a test period of two months with plant employees reporting decreased respiratory and eye irritation side effects from the hydrogen sulfide odors.

RESULTS

ChemTreat OC9106 solved the waste lagoon's biochemical oxygen demand (BOD) problems after a single treatment. The lagoon was functioning properly 21 days following treatment. OC9104 also significantly reduced the amount of hydrogen sulfide odors in the farms pit rinse system.



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