

# Advanced BioTech

*Developer of BioWorld Products*

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## Meat Packing Slaughter House Wastewater Case Study



20 foot pond was covered by grease and fat that was 6 feet thick on the inlet and 3 feet thick on the outlet end to an alfalfa field.



BioWorld Wastewater Treatment Products were applied every week for 8 weeks.

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Products from another company were applied for several years without results.



The thick covering of grease and fats beginning to break up.



During wash down of the facility, tanks of blood are cleaned and the residues sent to the pond through a pipeline system.

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Pond inlet shows red blood being degraded as fast as it is introduced. White foam is from microbial respiration.



U.S.D.A. inspection was a few weeks away. An agitator was used to pulverize the floating islands of grease and fats.

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The agitator in action to pulverize the floating islands of grease and fats.



Close up of the pulverized grease and fats allow for more surface area and faster degradation by the BioWorld Treatment Technology.

The pond had some sludge in the bottom from manure and other waste. BioWorld Microbes degrading the sludge.



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Plant Maintenance staff reviewing the BioWorld Treatment Technology in action.



BioWorld Microbes producing odor free gases – primarily CO<sub>2</sub>.

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Most of the pond surface is clear. The thick grease and fat covering is safely degraded. The fields where the water was applied were cleared of grease buildup and no more odors.



BioWorld Products Used:

#55064 Liquid Optimizer Plus

#36086 General Blend Microbes