

Sludge Reduction in Trout Pond © 2009

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ECOPROBIOTICS®, of the Bacta-Pur® System, are beneficial communities of natural bacteria, which have been on earth for millions of years and have been selected for their synergistic ability to biodegrade pollutants and to improve water quality. ECOPROBIOTICS® increase biodiversity. Just as people take probiotic yogurt for its' ability to assure the presence of the optimal community for digestion and immunity, ECOPROBIOTICS® improve ecosystem health. EVERY PRODUCTION of Bacta-Pur® products is analyzed and cleared for shipment ONLY after passing all performance tests and being CERTIFIED PATHOGEN FREE using techniques from the food industry. ECOPROBIOTICS® are purely natural and beneficial; they NEVER contain added chemicals such as surfactants, emulsifiers or enzymes..., nor do they contain genetically modified (GMO) or deliberately mutated organisms. ECOPROBIOTICS® are safe and beneficial. Disease causing organisms are never used, as others do or permit.

Background

Aquaculturists face a growing problem of decreasing water quality. Pollution causes negative feedback on yields and profits. Sludge accumulation is a common problem in aquacultural production. The sludge is not only expensive to get rid of but also contributes to degrading water quality and can cause poor flesh flavor. The Bacta-Pur® System was developed as an ecological engineering tool to contribute to sustainable aquaculture and profitability.

A trout pond in Ontario, on one of the largest fishing preserves in Canada was having a problem with sludge accumulation. The pond in question was about 120 ft x 90 ft x 15 ft deep and is used for fishing but also receives hatchery wastes. Approximately, two feet of trout manure accumulated in the pond each year. Vacuuming out the ponds was not only time consuming but also simply putting the wastes elsewhere. The owner wanted to reduce the sludge handling time and costs and to improve water clarity.

Treatment Program

The pond was treated for three months using 10 L of Bacta-Pur® XLG per month.

Results

The three month treatment resulted in crystal clear water and complete biodegradation of the two feet of fish manure, in spite of the fact that the water temperature never exceed 56°F (13°C).

