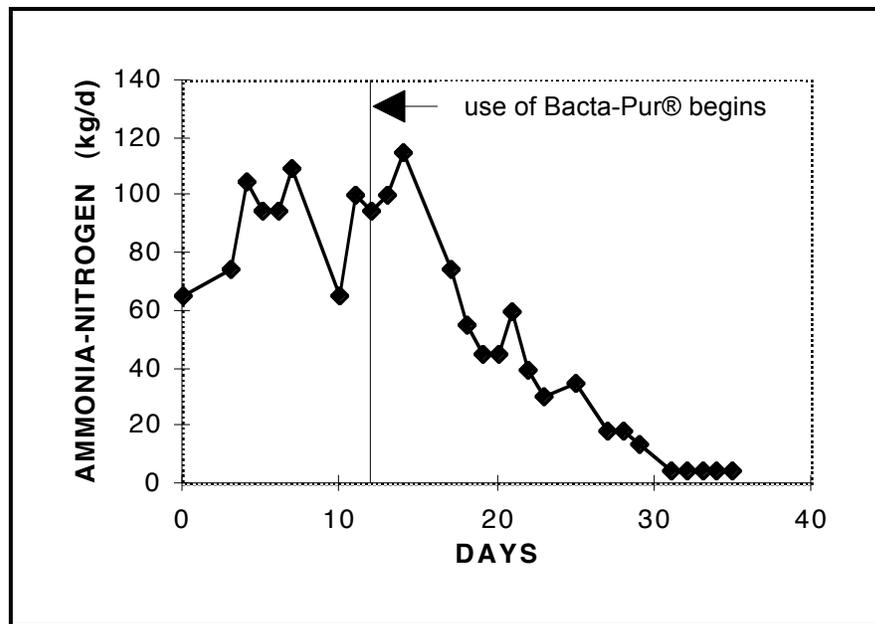


## Reduction of Ammonia in Effluent of Animal Feed Mill WWTP © 2009

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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. All bacterial cultures in the Bacta-Pur® product are listed on the Canadian DSL.*

A factory for production of animal feeds from slaughter wastes was having a problem removing ammonia, which entered the wastewater treatment plant at over 1200 ppm. The treatment with Bacta-Pur® was started by dosing the aeration tank, of an activated sludge plant, with 10 ppm based on volume, of Bacta-Pur® G-2000<sup>1)</sup> for grease reduction and BOD control and Bacta-Pur® N-2000<sup>1)</sup> for nitrification. The treatment was then continued with 4 ppm, based on the flow, of Bacta-Pur® G-2000 and Bacta-Pur® N-2000+. Use of Bacta-Pur® resulted in decrease of ammonia quantity in the effluent from over 100 kg/day to less than 5 kg/day, or by over 90% (see Figure below).



<sup>1)</sup> Bacta-Pur® G2000 has been replaced by Bacta-Pur® XLG, and Bacta-Pur® N-2000+ has been replaced by Bacta-Pur® N3000, which are more than 1000 times more concentrated.

