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Clean Environment Commission Hearing- Brandon, MB

Good Afternoon, Ladies and Gentlemen, Members of the Commission.

My name is Patrick Prychun and I have been involved in the feed industry for over 15 years. I currently work for Standard Max Pro Nutrition of Winnipeg, working throughout Western Canada and the Dakota's. SMPN, specializes in Consulting, Nutrition programs, and Swine management, primarily working with the Hutterite Colonies across North America since 1886.

Many of us have been discussing our concerns and solutions regarding the new requirements being set out by our Government. Today I would like to further discuss two products that have been highly recognized proven effective across Canada. MaxiZyme Plus and MaxiCharge Plus.

Over the past two years, we at Standard Nutrition have been working together with Nuvac Science de la Vie, (Life Sciences) a leading company in Biotechnology based in Quebec. Nuvac is committed to Human and Animal health, protection of the environment with the use of efficient biological products. They have currently invested over \$500,000 in R&D, providing data for phosphorus reduction, ammonia and odour control, solid liquification and many others. R&D was recorded through manure analysis, soil testing, slurry/lagoon samples etc., with the combined efforts of engineers, agronomist, veterinarians and co-operation of the Provincial Government.

MaxiZyme Plus is a product that consists of digestive enzymes, and specific strains of live bacilli bacteria. This concept is to use the animal's stomach and intestine's as a means of transformation that would control the organic matters and change them on the way. These products may be used as an alternative or in addition to phytase.

Coming from the same product line, there is a similar product called MaxiCharge Plus, that works directly in the pits and lagoons.

The bacteria in both of these products have been shown to take up soluble phosphate from the solid and liquid phase in pits and slurries, reducing the level of soluble phosphates. The bacteria use the phosphorus from the phosphate for growth and so change the microbial cellular material. The level of soluble phosphate applied to the land is reduced, therefore reducing phosphate runoff into aquifers. In fact, the enzymes transform manure's phosphate into orthophosphate a compound more easily absorbed by plants.

We can now confidently say that we have three ways to reduce phosphorus for producers:

- Reduction in overall feed usage (reducing at the source first)
- A better co-efficiency of soluble phosphorus in grains and protein
- Better assimilation by plants in soil

Odour control:

Waste and odour emanating from swine operations is a growing concern throughout the world. It has created a dividing wall between Producers and their Neighbours, making it more difficult for producers to manage their farms.

We have helped many producers reduce the odours emanating from their barns, thus improving their neighbour relations.

On a video that was produced by a Nuvac Rep, here in Manitoba, there was a neighbour so curious to see the equipment out and working, but couldn't smell any odours. He had to go check it out!

Since working with producers over the last couple of years, we have seen many additional benefits using these products, benefiting both the producers and hogs.

In conclusion, my personal thoughts on imposing a ban for future barn expansion, would be detrimental to producers and many businesses associated with the Swine Industry. I agree, that there needs to be proper guidelines and regulations regarding the hog industry, and environmental concerns. I certainly hope that through all these meetings, the CEC will come up with reasonable guidelines that will help and assist, not hinder the producer.

Thank you.

Patrick Prychun
Standard Max Pro Nutrion