

Addendum

I wish to add the following supplement to my submission:

On the subject of the importance of BOTH P and N in the growth of algal blooms in Lake Winnipeg, I would like to quote the most recent published work on Lake Winnipeg:

...“the dominance of diazotrophs (Table 1) would suggest that N limitation is a common feature of this lake at its present trophic state. Based on the environmental data we have presented, Lake Winnipeg blooms are strongly affected by N and P concentrations, light intensity through water turbidity, and prevailing wind direction. “ from page 600 (page 13 of 1-22) of:

McKindles, K.M.; P.V. Zimba, A.S. Chiu, S.B. Watson, D.B. Gutierrez, J. Westrick, H. Kling and T.W. Davis. 2019. A Multiplex Analysis of Potentially Toxic Cyanobacteria in Lake Winnipeg during the 2013 Bloom Season. *Toxins* 11: 587-609. <https://doi.org/10.3390/toxins11100587>

Thus independently confirmed are the facts that:

A. Nitrogen limitation occurs in Lake Winnipeg, and thus phosphorus is not always the determining factor in the growth of algal blooms in Lake Winnipeg.

B. BOTH N and P concentrations strongly affect algal blooms in Lake Winnipeg.

Therefore BOTH N and P regulation must be addressed in the refurbishment of Lake Winnipeg.

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