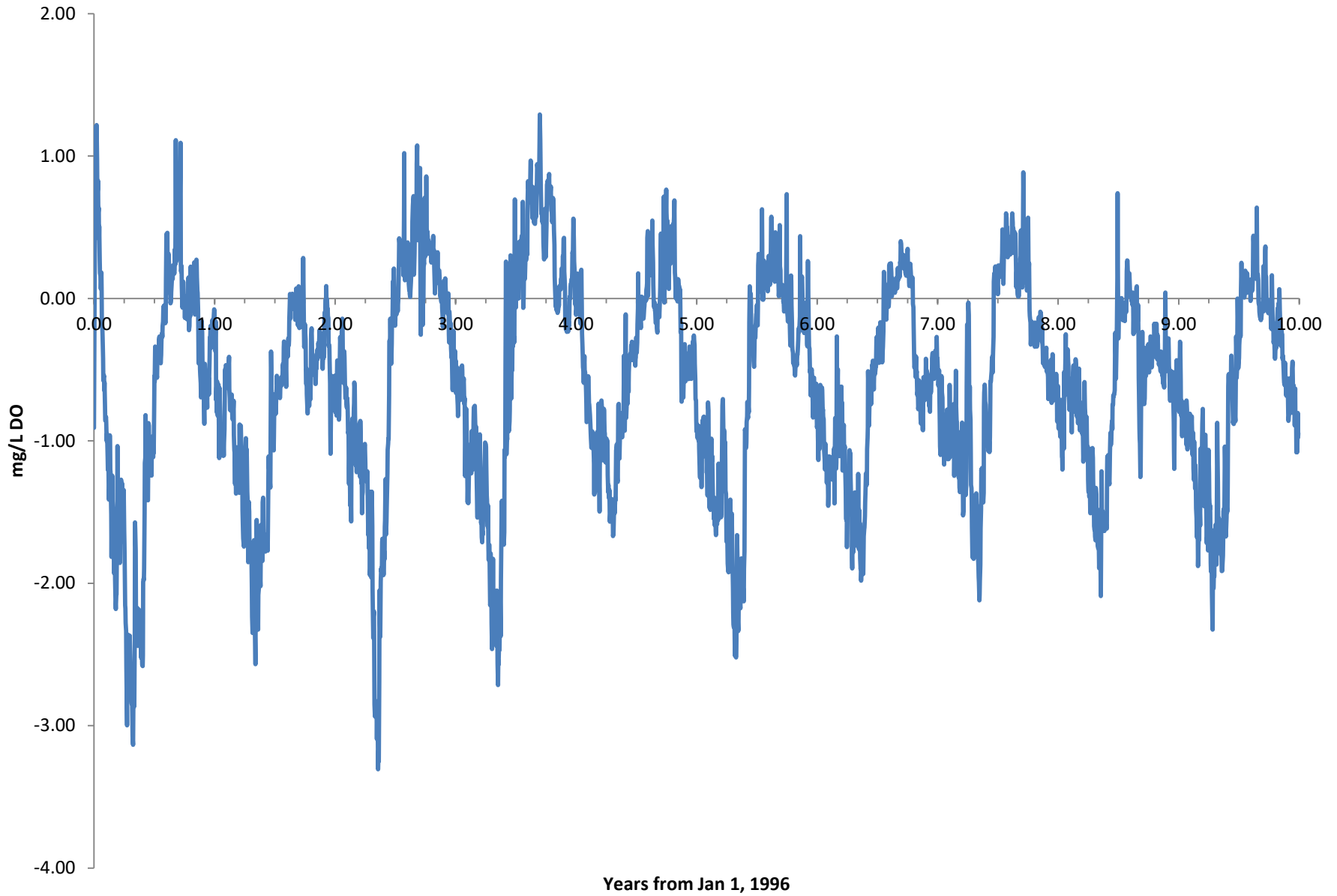


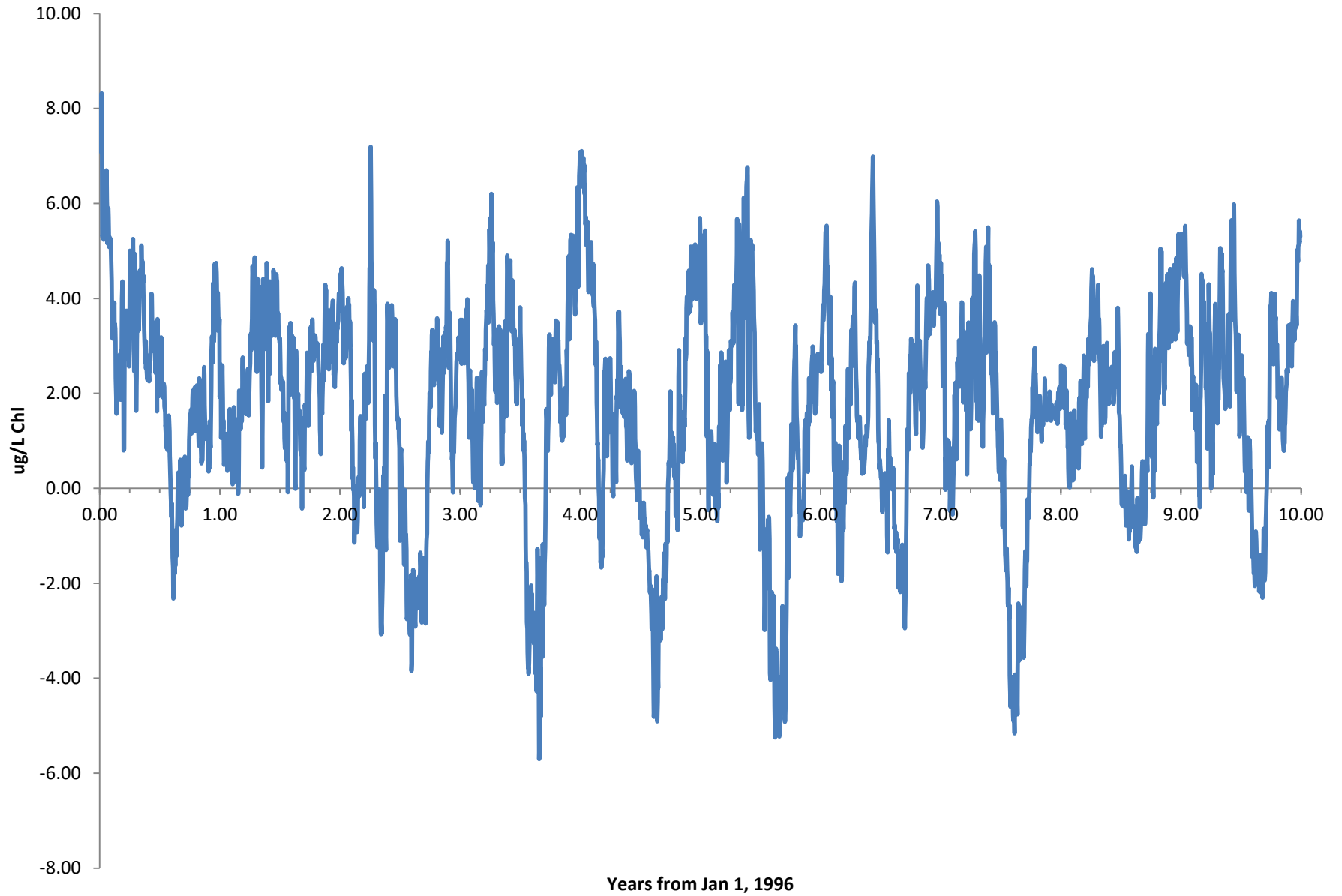
Effect on the TMDL

- Let's take the TMDL watershed loads and run them through the current model.
- We allocate the loads according to the new splits into WQM variables.
- The current model version also includes several parameter changes from the TMDL model. So this is not exclusively a test of loading of reactive material.
- In many cases the differences are too small to be discerned through side-by-side comparisons of plots. We're going to look at difference plots.

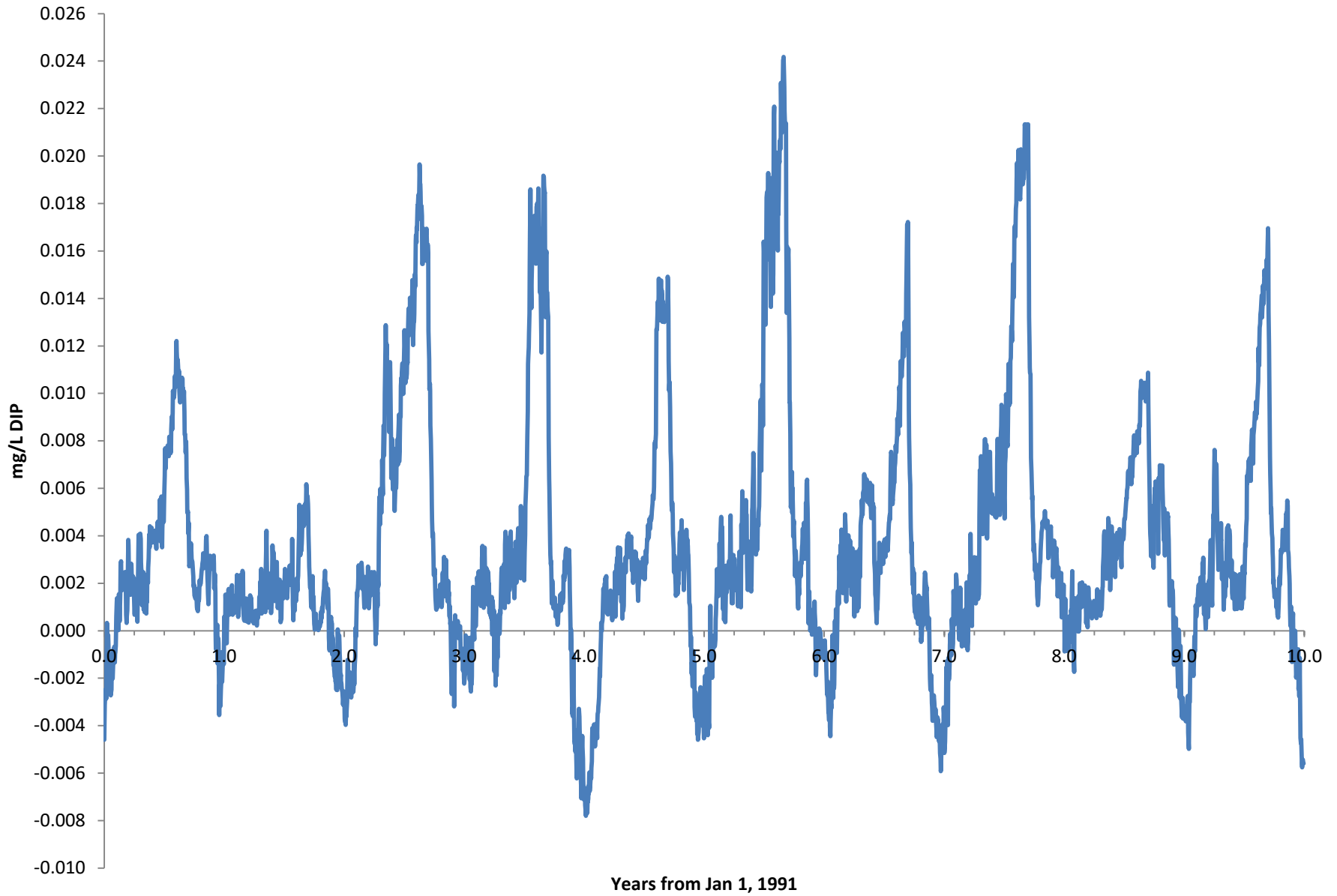
DO Difference (Current-TMDL)



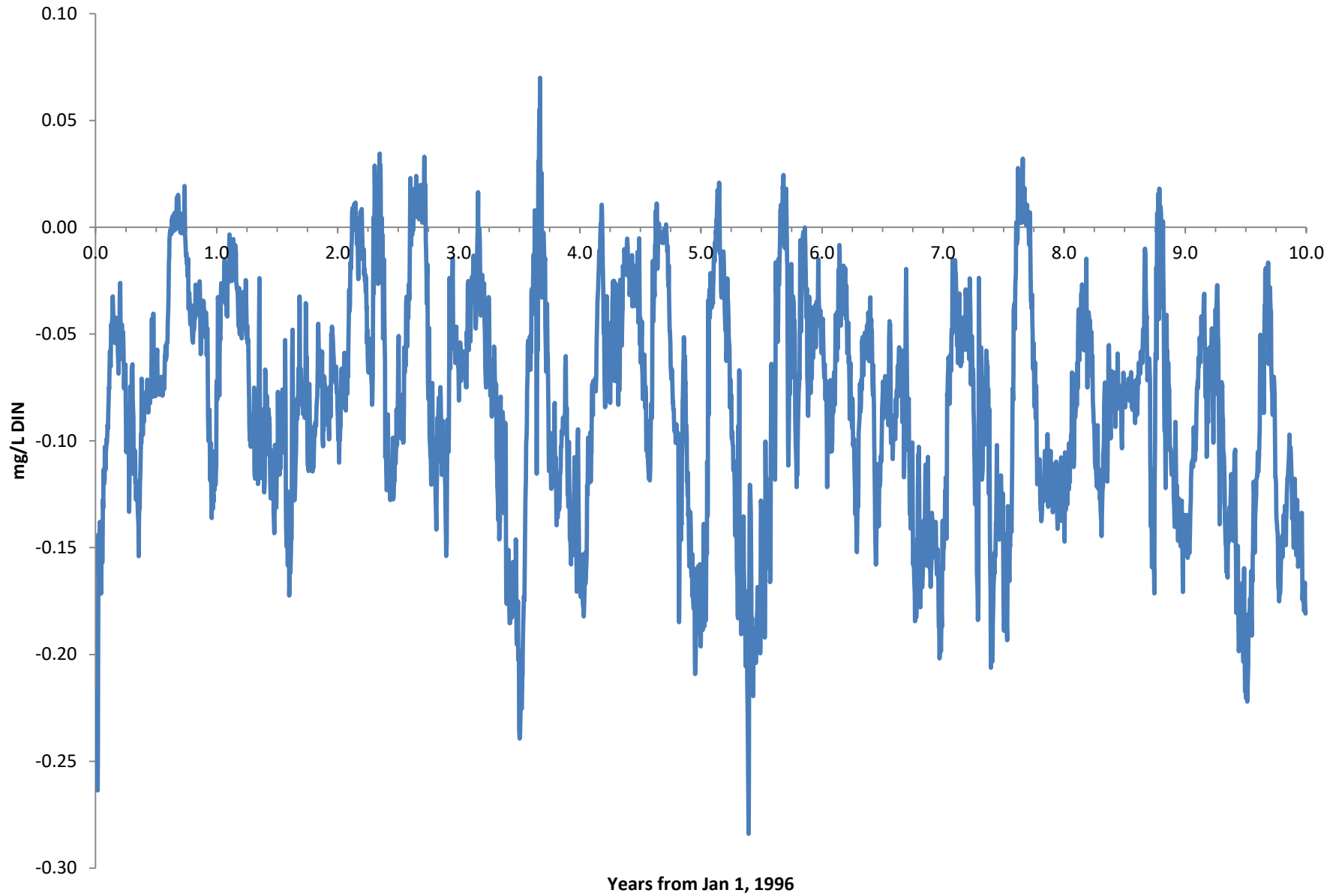
Chl Difference (Current-TMDL)



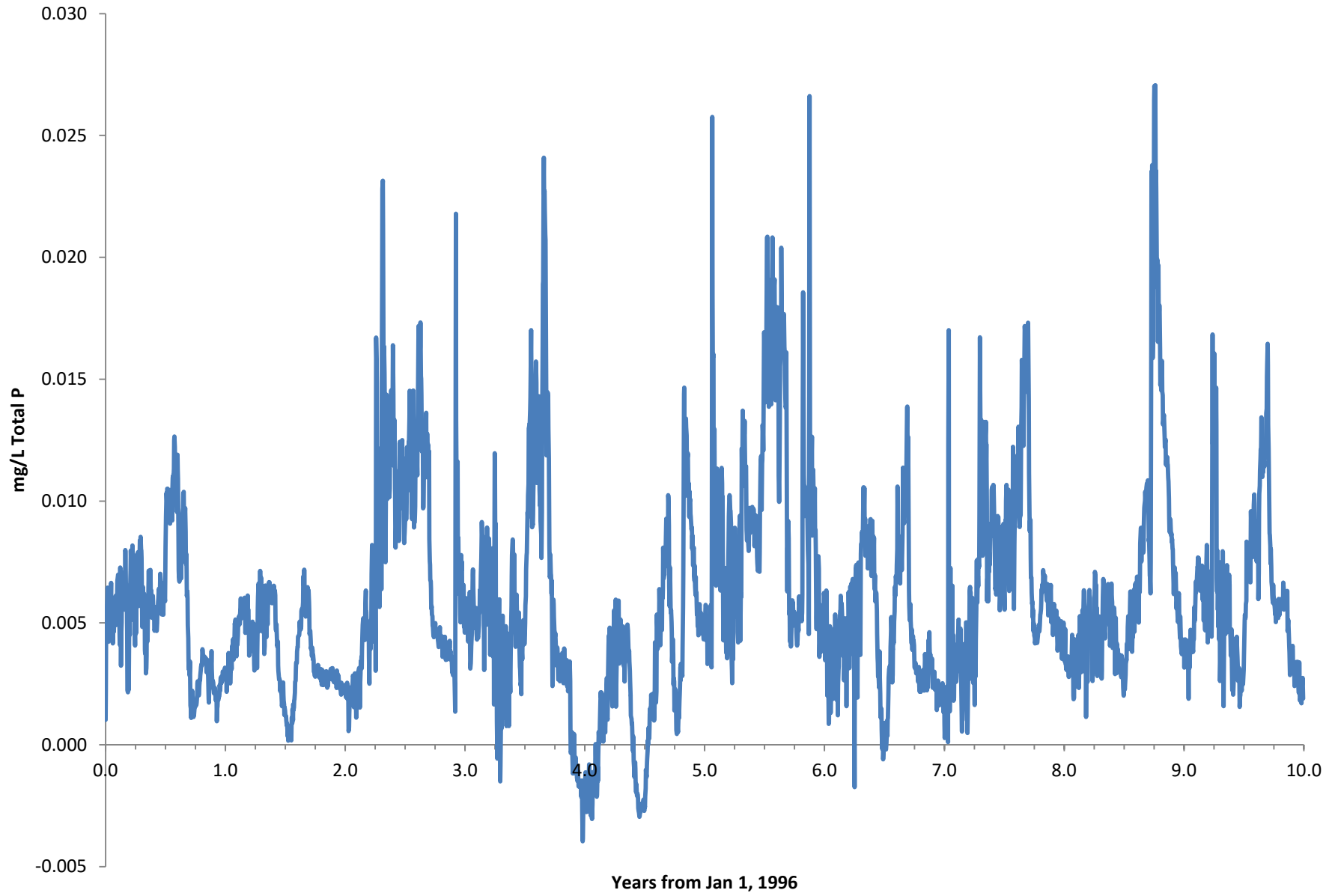
DIP Difference (Current-TMDL)



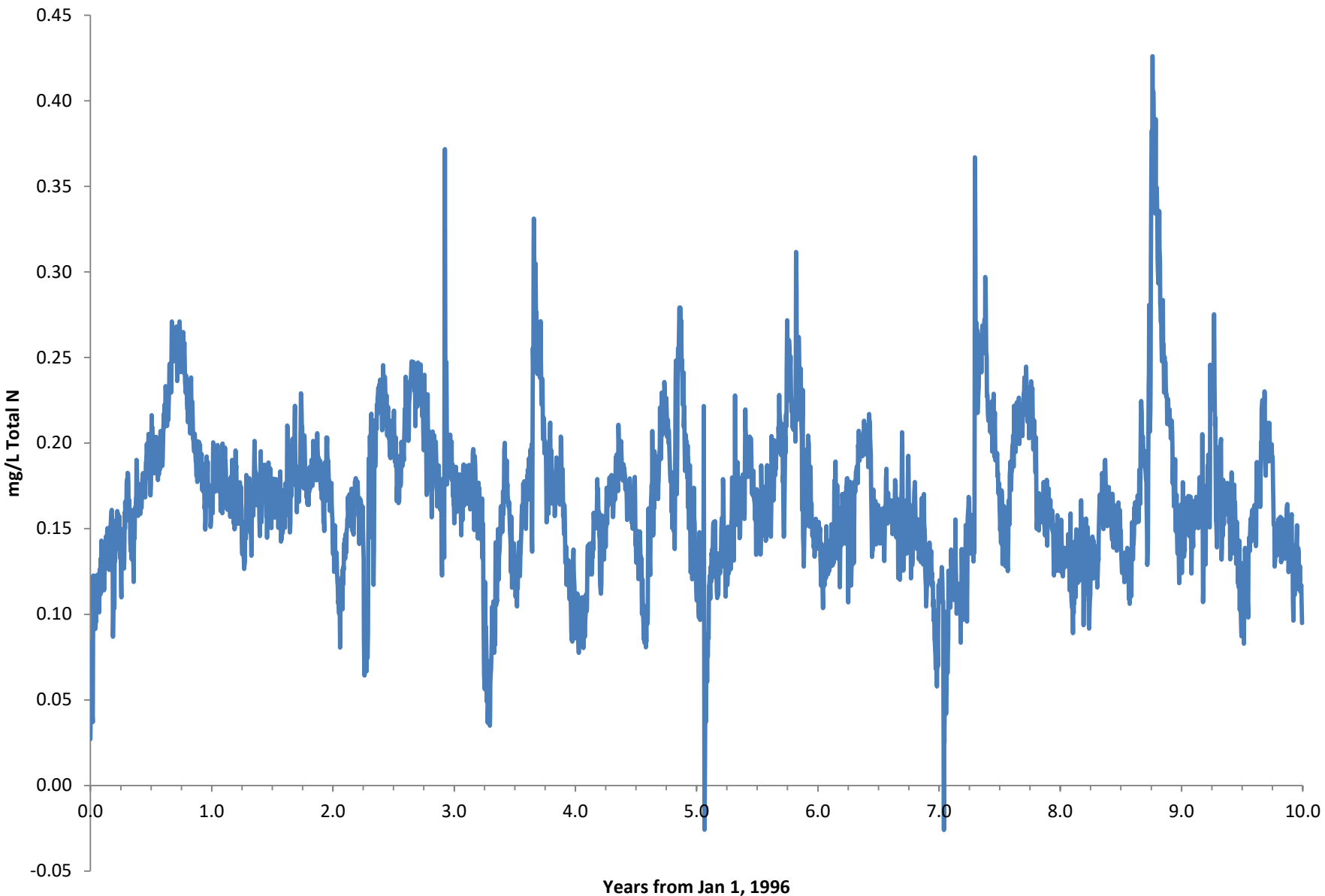
DIN Difference (Current-TMDL)



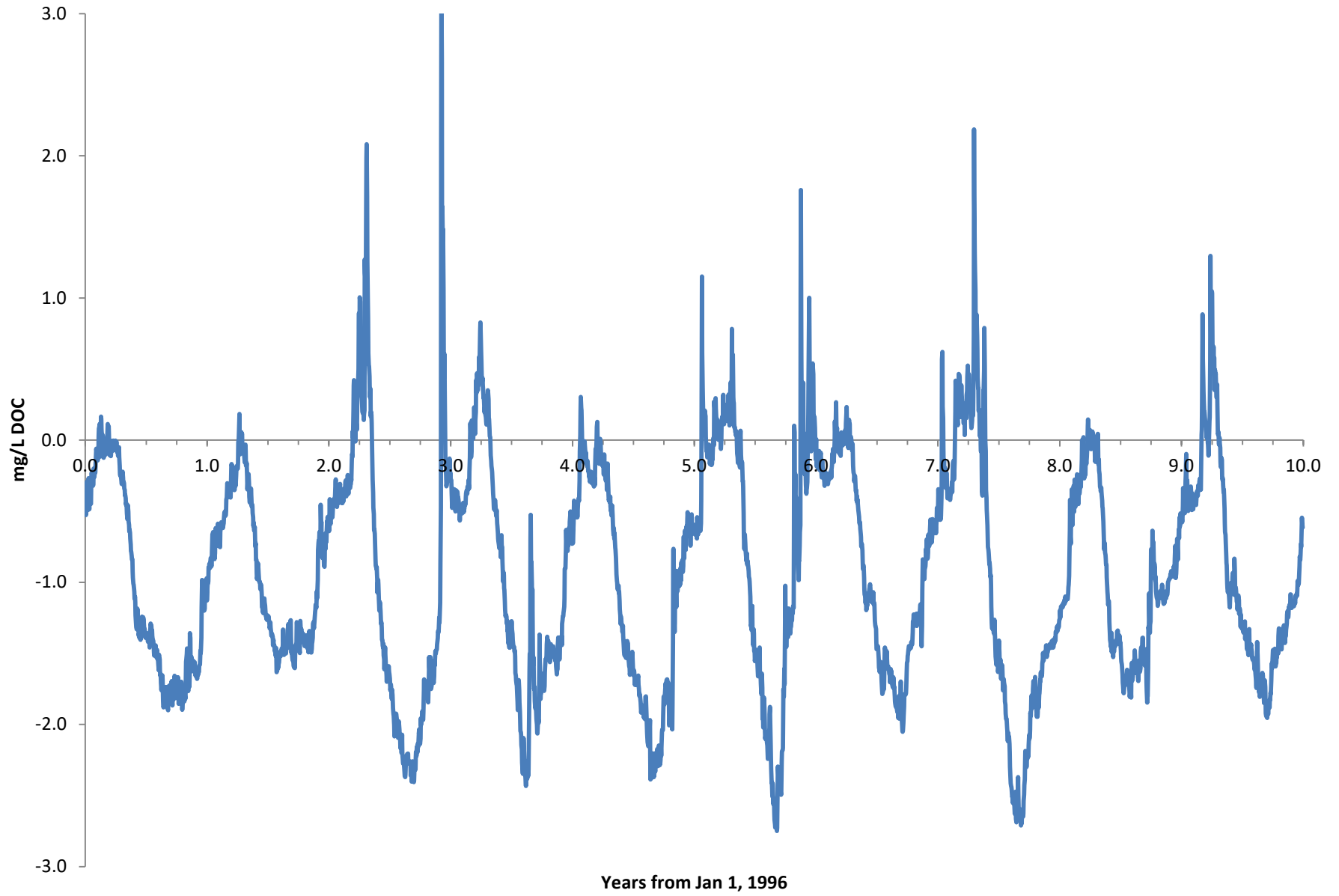
TotP Difference (Current-TMDL)



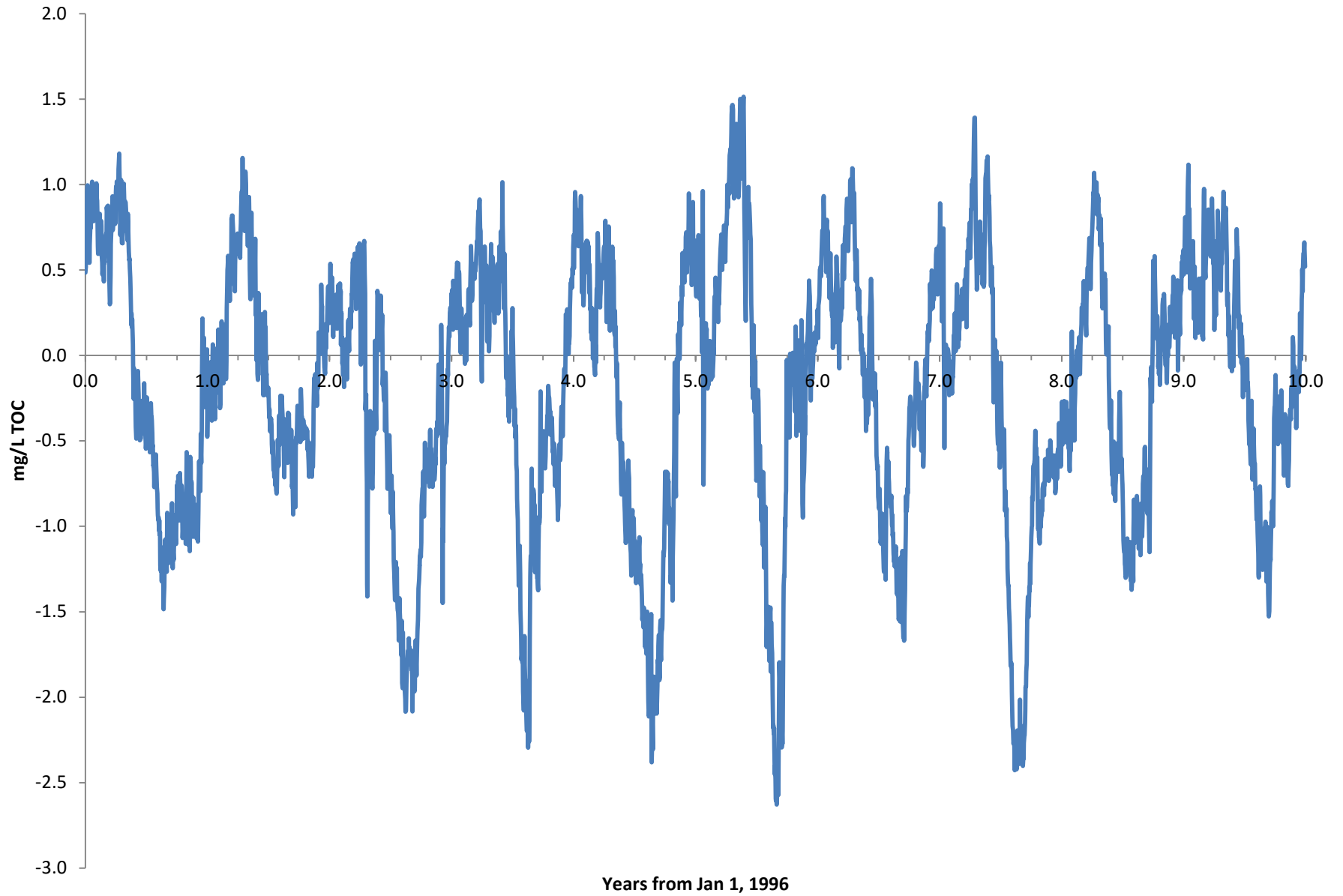
TotN Difference (Current-TMDL)



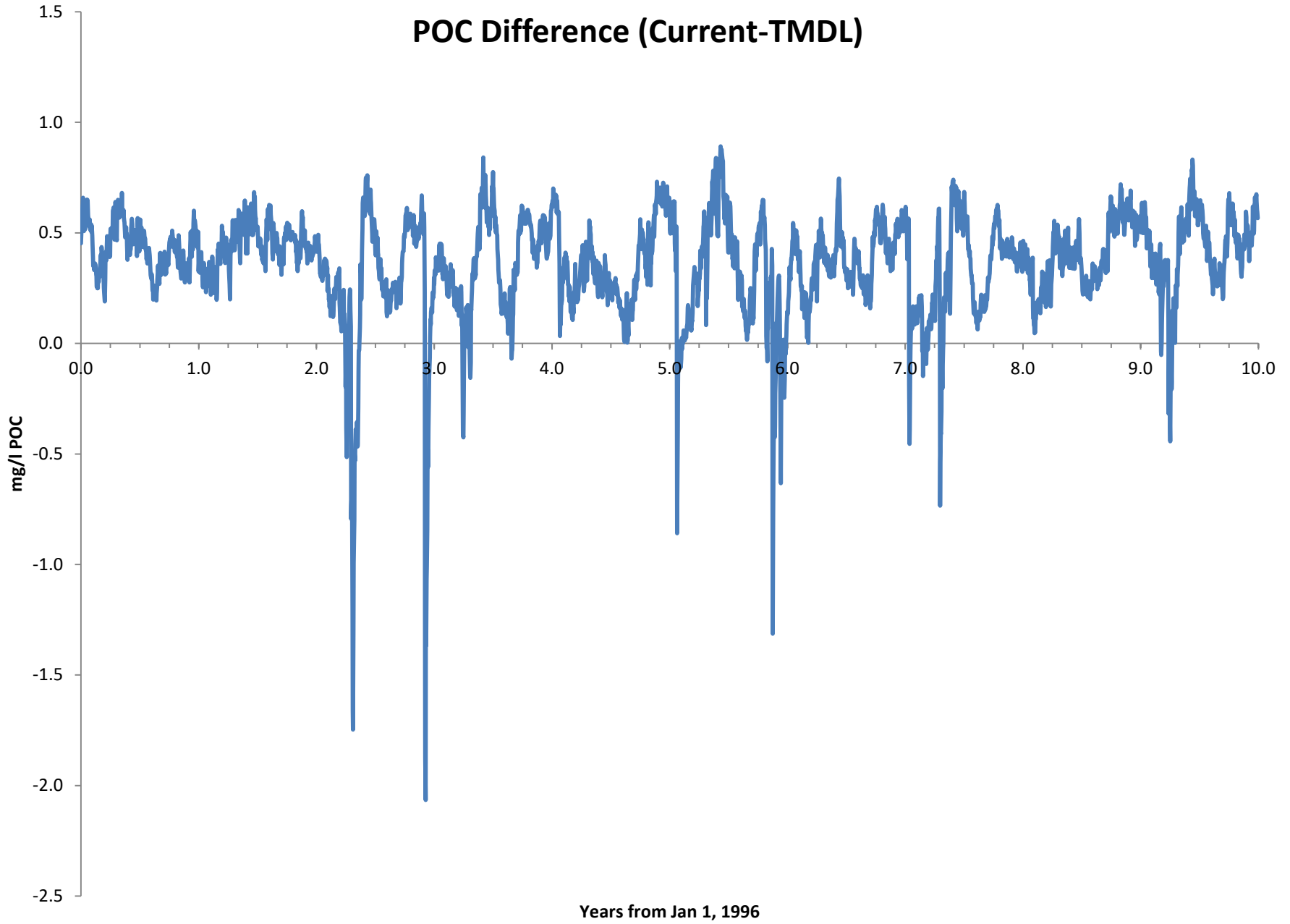
DOC Difference (Current-TMDL)



TOC Difference (Current-TMDL)



POC Difference (Current-TMDL)



Conclusions

- There is remarkably little difference in the G3 organic matter loads between the two model versions.
- We have substantially shifted the fractions of available organic matter. This is a result of the analysis of Conowingo organic matter and of decisions in allocation of WSM loads to WQM.
- The decisions made in allocating WSM variables to WQM variables are more significant than the splits into G1, G2, G3. (dissolved fractions, reactivity of PIP)