Reviewer’s comments:

I am pleased to see the revised manuscript has addressed most questions that I have raised for the previous version.

One point is still need to be discussed. In section 4.3, the uncertainty from the calculation of WF, especially for the grey WF, should be mentioned, since the estimation of the grey WF only consider nitrogen contamination, but ignore many other important factors, such as pesticides and other fertilizers.

Response: Thanks for the reviewer’s comments. Our response is “In addition, the parameter of Pe can affect the WFgreen and WFblue values because it was calculated by an empirical formula, and the WFgrey only considered nitrogen contamination and ignored pesticides and other fertilizers, therefore, the calculated WFgrey, WFgreen, WFblue and WF had a certain deviation compared with the actual values.”