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Interactive comment on "Model based on dimensional analysis for prediction of nitrogen and phosphorus concentration in the River Laborec" *by* M. Zeleňáková et al.

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The main aim of this paper was to develop a model for pollutant concentration prediction in a stream. The published model that determines nitrogen and phosphorus concentrations in a river is based on a dimensional analysis. Applications of dimensional analysis to water quality modelling are presented, pointing out possibilities of applying the methodology in water quality research. The authors investigated how dimensional analysis can be applied to water quality modelling and which beneïňĄts it can bring to researchers in the research area. The models were developed, calibrated

and evaluated using measured data from the River Laborec in eastern Slovakia. The main aim was really reached and is easy to applicate it in another study areas.

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 9, 5611, 2012.