

Interactive comment on “Effect of biostimulation on biodegradation of dissolved organic carbon in biological granular activated carbon filters” by K. Tihomirova et al.

Anonymous Referee #1

Received and published: 21 April 2012

The manuscript describing the effect of biostimulation on determination of biologically degradable organic carbon (BDOC) is interesting and increase our knowledge about behavior of NOM. In general, the paper fits well in the scope of Drinking Water Engineering journal. The paper is well written and is easily understandable.

General comments. Adaptation of columns used in BDOC analyses seems to be important for reliable BDOC results. Should there be some guidelines how long adaptation period should be to used to avoid underestimation of BDOC values ?

Biostimulation increased significantly the BDOC content in the test waters. A comment/question is didn't the addition of organic (Luria Bertani medium) biostimulant

C28

bring any additional BDOC into the system ?

Specific comments: Page 70, chapter 2.2, line 3. In sentence: "To avoid nutrient limitation.." is should be indicated that the purpose is to avoid limitation originating from inorganic nutrients.

Page 72, chapter 3 Results, lines 10-11. LOC was only 0.49 mg/l or 7% in this study. I think 7% means of all DOC ?

Interactive comment on Drink. Water Eng. Sci. Discuss., 5, 67, 2012.

C29